**Supplemental Information**

**Supplemental Methods**

**Supplemental References**

**Supplemental Figures**

**Supplemental Tables**

**Supplemental Methods**

*Cell culture*

HEK293T was purchased from Riken cell bank (#RCB2202) and cultured at 37°C with 5% $CO_2$ in D-MEM (FUJIFILM Wako, #043-30085) with 10% fetal bovine serum (FBS; Gibco, #26140079) and Penicillin-Streptomycin Solution (FUJIFILM Wako, #168-23191). Normal human lymphocyte was obtained from peripheral blood mononuclear cells of a healthy volunteer and cultured at 37°C with 5% $CO_2$ in RPMI1640 (FUJIFILM Wako, #189-02025) with 10% FBS. NK92 was purchased from the American Type Culture Collection, and KHYG1 was provided from the Japanese Collection of Research Bioresources. ANKL1 and ANKL3 are primary ANKL cells harvested from two lineages of previously established ANKL-PDXs, ANKL1-PDX and ANKL3-PDX, as described in our previous study. ANKL1 was cultured at 37°C in a $CO_2$-free incubator in Leibovitz's L-15 Medium (Gibco, #11415064) with 5% FBS, non-essential amino acids (FUJIFILM Wako, #139-15651), 100 units/mL human recombinant interleukin (IL)-2 (Peprotech, #200-02), and 0.1 mM 2-mercaptoethanol (FUJIFILM Wako, #131-14572). The other cells were cultured at 37°C with 5% $CO_2$ in Artemis Medium-1 (Nihon Techno Service; no available catalog number) with 2% heat-inactivated human serum (KOHJIN BIO, #12181201).

*Antibodies and reagents*

The following antibodies, purchased from BioLegend, were used for flow cytometry analysis:

biotin-conjugated anti-human CD45 (#34004), FITC-conjugated anti-human CD45 (#368508), APC-conjugated anti-human CD45 (#304012), DyLight 649 goat anti-mouse IgG (#405312), and Alexa Fluor 488 goat anti-mouse IgG (#405319). All antibodies were used at ×500 dilution. DNA was stained using propidium iodide (PI; Sigma-Aldrich, #P4170) for cell cycle analysis and dead cell detection. The antibody used for CD56 immunohistochemistry was purchased from Leica Biosystems (#CD56-504-L-CE). Antibodies used for western blotting were purchased and diluted as follows: mouse anti-beta actin (Sigma-Aldrich, #A5441; ×1,000 dilution), rabbit anti-CD71 (Proteintech, #10084-2-AP; ×1,000 dilution), rabbit anti-Myc (Cell Signaling Technology, #9402; ×500 dilution), rabbit anti-phospho-p70 S6 kinase (Cell Signaling Technology, #9205S; ×500 dilution), mouse anti-L-type amino acid transporter 1 (LAT1; Santa Cruz Biotechnology, #sc-37432; ×500 dilution), HRP-conjugated goat anti-mouse IgG (Proteintech, #SA0001-1; ×2,000 dilution), and HRP-conjugated goat anti-rabbit IgG (Proteintech, #SA00001-2; ×2,000 dilution). PPMX-T003, an anti-human transferrin receptor 1 inhibitory antibody, was kindly provided by Perseus Proteomics, Inc. JPH-203, a specific inhibitor of LAT1 was purchased from TargetMol (#TQ0081) and was diluted in dimethyl sulfoxide. Rapamycin, a mammalian target of rapamycin inhibitor, was purchased from AdipoGen (#AG-CN2-0025-C100) and was diluted in dimethyl sulfoxide.

*Animal breeding and reproduction of ANKL-PDXs*

Six-week-old female NOD/Shi-scid, IL-2RγKO (NOG) mice were purchased from In-Vivo Science and bred in a specific pathogen-free area of the animal facility of Tokai University, where the temperature, humidity, and illuminance are adequately controlled. Seven to eleven-week-old mice were used in all the experiments. All mice received humane care, and the humane endpoint was decided for mice whose body weight continuously decreased by more than 15% of their maximum body weight or showed remarkable debilitation. The ANKL-PDXs used in this study were established as described in our previously published article in detail(1). ANKL-PDXs were reproduced (passaged) by intravenous injection of ANKL cells harvested from ANKL-PDXs into another NOG mouse.

*Harvesting primary ANKL cells from ANKL-PDXs*

The liver and spleen were extracted from ANKL-PDXs seven to 11 days after inoculation with ANKL cells. Both organs were homogenized and filtered with a 70-μm cell strainer (Falcon, #352350), followed by enzymatic digestion in HBSS (+) (FUJIFILM Wako, #084-08965) containing 1 mg/mL collagenase A (Roche, #11088793001) and 100 U DNase I (Roche, #10104159001) for 15 min at 37°C. Hepatocytes were removed using density gradient centrifugation using 35% Percoll (Sigma-Aldrich, #P1644) diluted in HBSS (-) (FUJIFILM Wako, #085-09355). Finally, the ANKL cells were sorted using automated Magnetic-Activated Cell Sorting (autoMACS; Myltenyi Biotech) using a biotin-conjugated anti-human CD45 antibody

and anti-biotin microbeads (Miltenyi Biotech, #130-090-485). Harvested ANKL cells were stored in a deep freezer with a CELLBANKER (ZENOGEN PHARMA #11910). The original method for harvesting ANKL cells from PDX was described in our previous study(1).

*Flow cytometric analysis and cell sorting*

Cells were washed several times with 2% FBS-containing phosphate-buffered saline, followed by incubation in an adequate concentration of the antibody solution for 30–60 min. The stained cells were washed several times with 2% FBS-containing phosphate-buffered saline. For intracellular staining, cells were fixed and permeabilized with chilled 70% ethanol after staining the surface molecules and then blocked with 2% bovine serum albumin for 15 min, followed by intracellular antigen staining. Surface or intracellular molecular expression was analyzed using FACS Lyric or LSR Fortessa (Becton, Dickinson). Cell sorting was performed using a FACS Melody or Aria III (Becton, Dickinson). Data processing and analysis were performed using FlowJo version 10 (Becton, Dickinson).

*Western blotting*

Cells were directly lysed in 1x Laemmli sample buffer (60 mM Tris-HCl pH 6.8, 2% sodium dodecyl sulfate, 10% glycerol, 5% 2-mercaptoethanol, and 0.02% bromophenol blue), followed by boiling at 96°C in a heat block for 10 min. Samples were applied in 10–15% acrylamide gel

electrophoresis. Proteins in acrylamide were then transferred to 0.2-μm poly-vinylidene di-fluoride membrane (FUJIFILM, #033-22453) using HorizeBLOT 4M-R (ATTO, #2322470). Membranes were blocked with 5% skim milk for 2 h. Primary antibodies were diluted with 5% skim milk and applied to the membranes at room temperature for 2 h. After washing the membrane with Tris-buffered saline containing 0.05% Tween 20, the secondary antibody was diluted with 5% skim milk and incubated at room temperature for 45 min. After washing the membrane, an adequate volume of Immobilon Western Chemiluminescent HRP substrate (Merck Millipore, #WBKLS0100) was applied, and luminescence was detected using FUSION SOLO.7S.EDGE (Vilber Bio Imaging).

*Quantitative PCR*

Total cellular RNA was extracted using Sepasol-RNA I Super G (Nacalai Tesque, #09379-55) followed by reverse transcription using ReverTra Ace qPCR Master Mix with gDNA Remover (TOYOBO, #FSQ-301). PCR was performed using THUNDERBIRD SYBR qPCR Mix (TOYOBO, #QPS-201) and StepOnePlus Real-Time PCR System (Applied Biosystems). *ACTB* expression value was selected as an internal control, and the $2^{-\Delta\Delta CT}$ method was used for data analysis. Primer sequences used for PCR were as follows; *ACTB*-Forward: 5′-CTCTTCCAGCCTTCCTTCCT-3′, *ACTB*-Reverse: 5′-AGCACTGTGTTGGCGTACAG-3′, *MYC*-Forward: 5′-CACCAGCAGCGACTCTGA-3′, *MYC*-

Reverse: 5′-GATCCAGACTCTGACCTTTTGC-3′, *TFRC*-Forward: 5′-ACTTCTTCCGTGCTACTTCCAG-3′, *TFRC*-Reverse: 5′-ACTCCACTCTCATGACACGATC-3′, *TXNIP*-Forward: 5′-CAGCAGTGCAAACAGACTTCGG-3′.

*Transduction using lentiviral vector*

Second-generation lentiviral packaging vectors psPAX2 (Addgene, #12260) and pMD2.G (Addgene, #12259) were cotransfected into HEK293T cells with plasmids containing the proposed gene (encoding sgRNA, Cas9, or luciferase) using PEI MAX (Polysciences, #24765-1). The culture supernatant was collected 48 h after transfection and centrifuged at 10,000 × *g* for 4 h to concentrate the lentiviruses. Target cells were then treated with concentrated lentiviral supernatant on culture plates coated with RetroNectin (Takara Bio, #T100A) and centrifuged at 1,000 × *g* for 90 min for infection.

*sgRNA designation and related plasmid construction*

sgRNAs targeting specific genes were designed by an online-available tool, CHOPCHOP (http://chopchop.cbu.uib.no/). The non-target sgRNA sequence was obtained from BRDN0001149198 (#80248; Addgene). Oligonucleotides were obtained from Eurofin Genomics and ligated into the FG12 (Addgene, #14884)-based sgRNA and mRFP expression plasmid, which was kindly provided by Prof. Hirao, after enzymatic digestion using *BsmBI* (New England

BioLabs, #R0580S) according to the manufacturer's protocol. Sequences of sgRNAs were as follows: non-target sgRNA (sgNT): 5′-GTATTACTGATATTGGTGGG-3′, sg*SLC7A5*: 5′-TGGCGGGTAGCGGCTCACCA-3′, sg*SLC1A5*: 5′-CAGCGCCACACCAAAGACGA-3′.

*CRISPR-Cas9 gene knockout procedure*

Cells were sequentially transduced with lentiCas9-Venus (Addgene, #70267) and the sgRNA plasmid as described above, followed by purification using flow cytometry for 48 h or more after transduction.

*In vivo imaging assay*

The Lampyridae luciferase gene was cloned into CSII-CMV-MCS (Riken, #RDB04377) and digested with *AgeI* (New England Biolabs, #R3552S) and *BamHI* (New England Biolabs, #R3136S). ANKL1 and ANKL3 cells were then transduced with the constructed vectors (ANKL1$^{Luc}$ and ANKL3$^{Luc}$, respectively), and ANKL-PDXs were established using them. On the day of the analysis, 150 mg/kg luciferin (Promega, #P1043) was intraperitoneally injected, and luminescence was detected using an IVIS Lumina II (Caliper Life Science) under 2.5% isoflurane inhalation. Luminescence was measured using the Living Image software (version 4.3.1; PerkinElmer).

*Histological analysis*

The livers and spleens were obtained from sacrificed ANKL-PDX mice, fixed in 4% formaldehyde, and embedded in paraffin. The sections were stained with hematoxylin and eosin. Immunohistochemistry was performed using Bond Polymer Refine Detection (Leica, #DS9800), as previously reported(2). Images of the tissue slides were scanned and converted into a virtual slide image format using CellSense software (Olympus) and observed using NDP.view2 (Hamamatsu Photonics).

*Transcriptomic analysis with publicly-available RNA-seq data*

Transcriptomic data of primary ANKL and normal NK cells used in our previous study were obtained from the Gene Expression Omnibus (GSE189722)[1]. FASTQ files were mapped to GRCh38.95, available in Ensembl (https://www.ensembl.org; accessed on 10th Sep. 2021), using HISAT2 version 2.2.0. The mapped reads were counted using StringTie version 2.1.3b. Differentially expressed genes were detected using DESeq2 version 1.38.3, and gene set enrichment analysis was performed using clusterProfiler version 4.6.2, with a GMT-formatted file of HALLMARK of human MSigDB v2023.1, as described in the Methods section of the manuscript.

*DNA damage detection assay*

The cells were cultured for adequate periods with or without reagents, harvested, fixed, and

permeabilized with chilled 70% ethanol. DNA damage was detected via the detection of γH2AX using DNA Damage Detection Kit (Dojindo, #343-09421), following the manufacturer's protocol. DyLight 649 goat anti-mouse IgG antibody was used as the secondary antibody in several analyses instead of the secondary antibody in the kit. Fluorescence was detected using flow cytometry.

*Single-amino acid deprivation assay*

Amino acid-deprived RPMI-1640 medium was purchased from the Research Institute for the Functional Peptides. Purified amino acids were purchased from FUJIFILM Wako, as follows; L(+)-Arginine (#019-04611), L-Asparagine Monohydrate (#019-04812), L-Aspartic Acid (#013-04832), L-Glutamic Acid (#070-00502), Glycine (#073-00732), L-Histidine (#086-00681), L-Isoleucine (#123-00861), L-Leucine (#126-00851), L-Methionine (#135-01601), L(-)-Phenylalanine (163-01301), L(-)-Proline (#163-04601), L-Serine (#191-00401), L-Threonine (#206-01321), L-Tryptophan (#206-03381), L-Valine (#220-00081), L-Cysteine (#039-20652), and L-Tyrosine (#204-03561). L-Glutamine was purchased from Gibco (#2530081). Adequate volumes of each amino acid were independently added to the amino acid-deprived RPMI-1640 medium at the same concentration as the original RPMI-1640, and a single-amino acid-deprived RPMI-1640 medium was prepared. NK92, KHYG1, ANKL1, and ANKL3 cells were cultured at 37°C with 5% $CO_2$ in single-amino acid-deprived RPMI1640 with 10% FBS and 100 units/mL

recombinant human IL-2 for 24 h (ANKL1) or 48 h (other cells). Cultured cells were harvested and counted using the MTT Cell Count Kit (Nacalai Tesque, #23506-80; for NK92 and KHYG1) or trypan blue staining (FUJIFILM Wako, #207-17081; for ANKL1 and ANKL3), following the manufacturer's protocols.

*In vitro growth competition assay of single gene-knocked-out cells*

Cas9-Venus overexpressed cells were transduced with the sgRNA-RFP expression plasmid and cultured without further purification. The proportion of $RFP^+$ cells in $Venus^+$ cells was measured using flow cytometry five and eight days after transduction, and the relative existence ratio of knocked-out cells in eight days compared with five days after transduction was calculated. The lentivirus titer was adjusted as the $RFP^+$ cell ratio reached 40–60% five days after transduction.

*In vivo growth competition assay of single gene-knocked out ANKL cells in the liver*

Cas9-Venus overexpressed ANKL1 and ANKL3 cells were transduced with sgRNA-RFP expression plasmid and purified $RFP^+$ cells 48 h after transduction using flow cytometry with more than 90% efficiency. The sorted cells were intravenously inoculated into NOG mice and harvested from the liver seven days after injection. The collected cells were analyzed using flow cytometry to calculate the RFP+ proportion in Venus+ cells.

*Cell growth and viability assay*

First, $3 \times 10^4$ cells (cell lines) or $1 \times 10^5$ cells (primary cells) were cultured at 37°C with 5% $CO_2$ in 800 μL adequate culture medium with antibodies or reagents for 48 h (cell lines) or 24 h (primary cells). Then, cells were transferred into a 96-well plate, and an MTT assay or trypan blue staining was performed to assess cell growth or viability following the manufacturer's protocol, as described above.

*Live cell staining of intracellular ferrous ions and mitochondrial reactive oxygen species*

Intracellular ferrous ions and mitochondrial reactive oxygen species were stained with FerroOrange and mtSOX deep red (Dojindo, #F374 and #MT14, respectively) following the manufacturer's protocol. FerroOrange and mtSOX deep red fluorescence was detected using light microscopy (IX83; Olympus) and flow cytometry, respectively.

*Cell cycle assay*

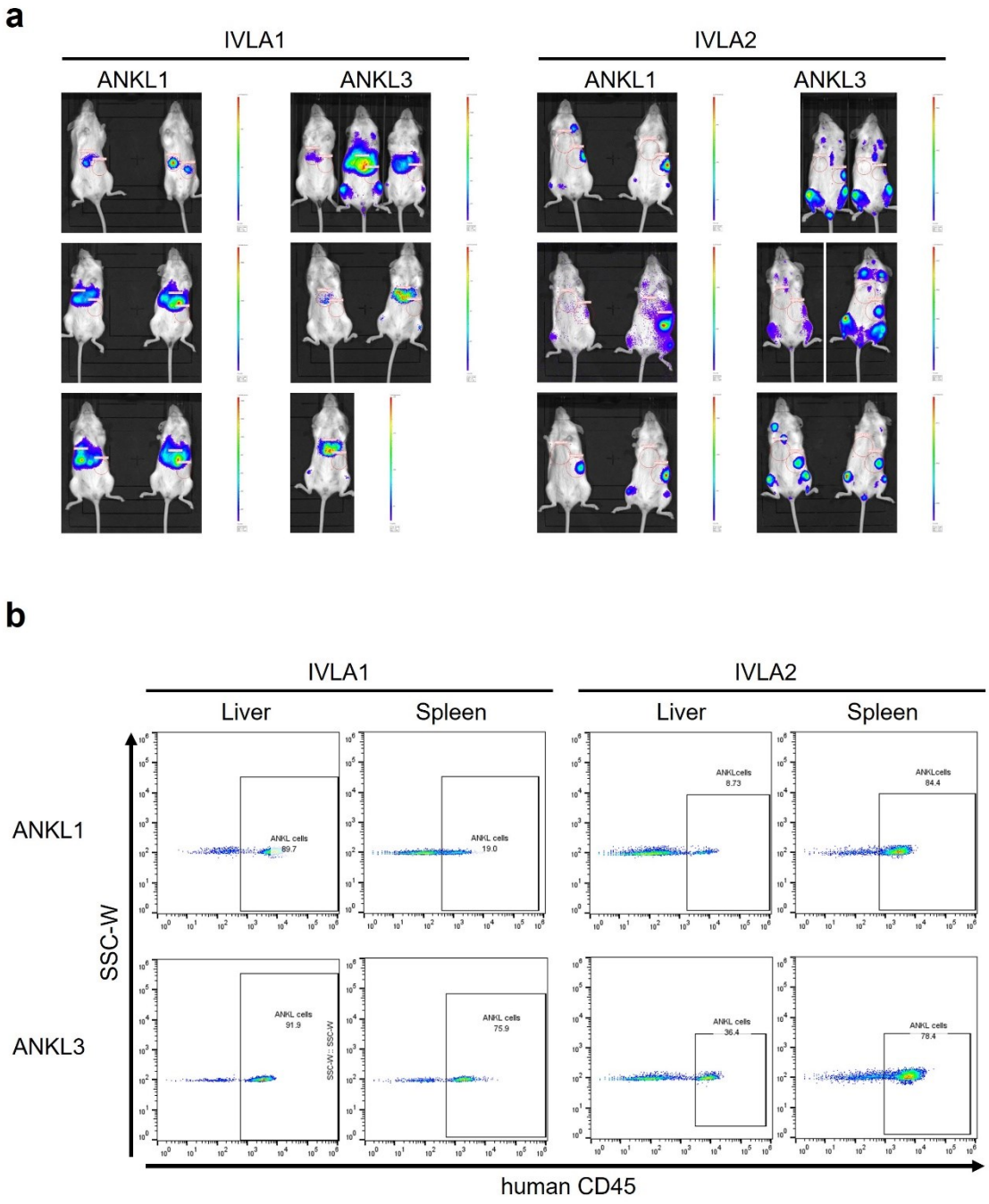
Harvested cells were fixed and permeabilized, and then RNAs were digested using 20 μg/mL RNase (NIPPON GENE, #313-01461). Cellular DNA was stained with 50 μg/mL PI, and fluorescence was measured using flow cytometry to determine the cell cycle. To detect DNA-synthesizing cells of liver-resident ANKL cells *in vivo* for better separation of the G0/1 and S-phase cell cycles, 50 mg/kg EdU was intraperitoneally inoculated into ANKL-PDX two hours before sacrifice. EdU was labeled using the Click-iT Plus EdU Flow Cytometry Assay Kit

(Thermo Fisher Scientific, #C10634) and detected using flow cytometry.

**Supplemental References**


1. Kameda K, Yanagiya R, Miyatake Y, Carreras J, Higuchi H, Murayama H, et al. The hepatic niche leads to aggressive natural killer cell leukemia proliferation through the transferrin-transferrin receptor 1 axis. Blood. 2023 Jul 27;142(4):352–64.
2. Carreras J, Kikuti YY, Beà S, Miyaoka M, Hiraiwa S, Ikoma H, et al. Clinicopathological characteristics and genomic profile of primary sinonasal tract diffuse large B cell lymphoma (DLBCL) reveals gain at 1q31 and RGS1 encoding protein; high RGS1 immunohistochemical expression associates with poor overall survival in DLBCL not otherwise specified (NOS). Histopathology. 2017 Mar;70(4):595–621.

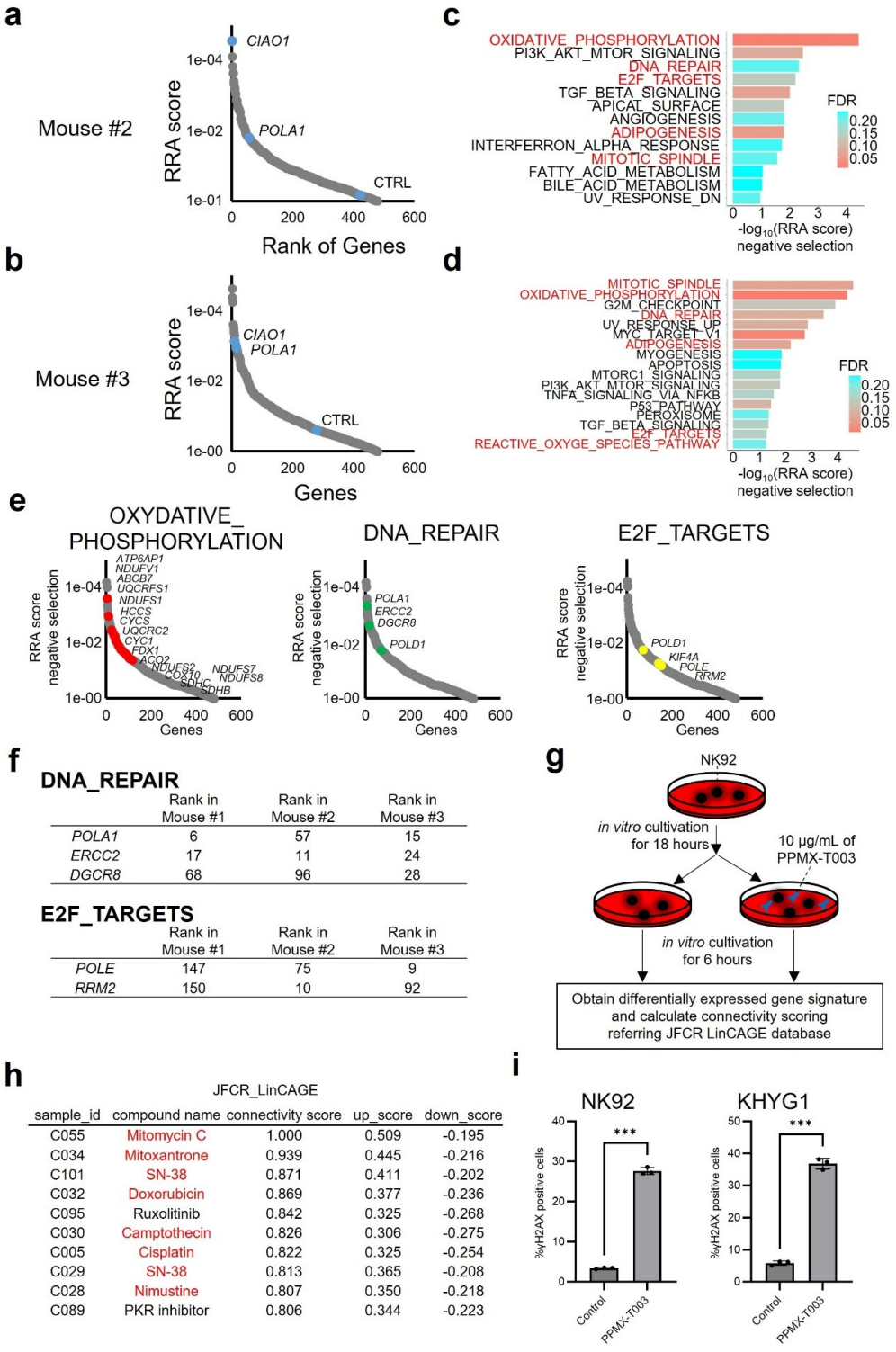
**Supplemental Figures**




**Supplemental Figure S1. ANKL cell existence in the liver and spleen of ANKL-PDXs before and after treatment with PPMX-T003.**

**a.** Raw IVIS images of ANKL-PDXs at IVLA1 and IVLA2 stages shown in **Figure 1b**. Six mice per stage per lineage were analyzed.

**b.** Gating images of flow cytometric analyses shown in **Figure 1c**.




| | Rank in Mouse #1 | Rank in Mouse #2 | Rank in Mouse #3 |
|---|---|---|---|
| *POLA1* | 6 | 57 | 15 |
| *ERCC2* | 17 | 11 | 24 |
| *DGCR8* | 68 | 96 | 28 |

| | Rank in Mouse #1 | Rank in Mouse #2 | Rank in Mouse #3 |
|---|---|---|---|
| *POLE* | 147 | 75 | 9 |
| *RRM2* | 150 | 10 | 92 |

| sample_id | compound name | connectivity score | up_score | down_score |
|---|---|---|---|---|
| C055 | Mitomycin C | 1.000 | 0.509 | -0.195 |
| C034 | Mitoxantrone | 0.939 | 0.445 | -0.216 |
| C101 | SN-38 | 0.871 | 0.411 | -0.202 |
| C032 | Doxorubicin | 0.869 | 0.377 | -0.236 |
| C095 | Ruxolitinib | 0.842 | 0.325 | -0.268 |
| C030 | Camptothecin | 0.826 | 0.306 | -0.275 |
| C005 | Cisplatin | 0.822 | 0.325 | -0.254 |
| C029 | SN-38 | 0.813 | 0.365 | -0.208 |
| C028 | Nimustine | 0.807 | 0.350 | -0.218 |
| C089 | PKR inhibitor | 0.806 | 0.344 | -0.223 |

**Supplemental Figure S2. ANKL cells require iron for DNA replication/repair and oxidative phosphorylation.**

**a–b.** Negative selection RRA scores of all Mouse #2 (**a**) and #3 (**b**) genes. Blue dots indicate the RRA values of sgRNAs targeting *CIAO1* and *POLA1*, and non-target sgRNA (CTRL).

**c–d.** All dropped-out gene sets in Mouse #2 (**c**) and #3 (**d**) using GSEA. Color values indicate FDR and red characters indicate five commonly dropped-out gene sets, as described in **Figure 3c**.

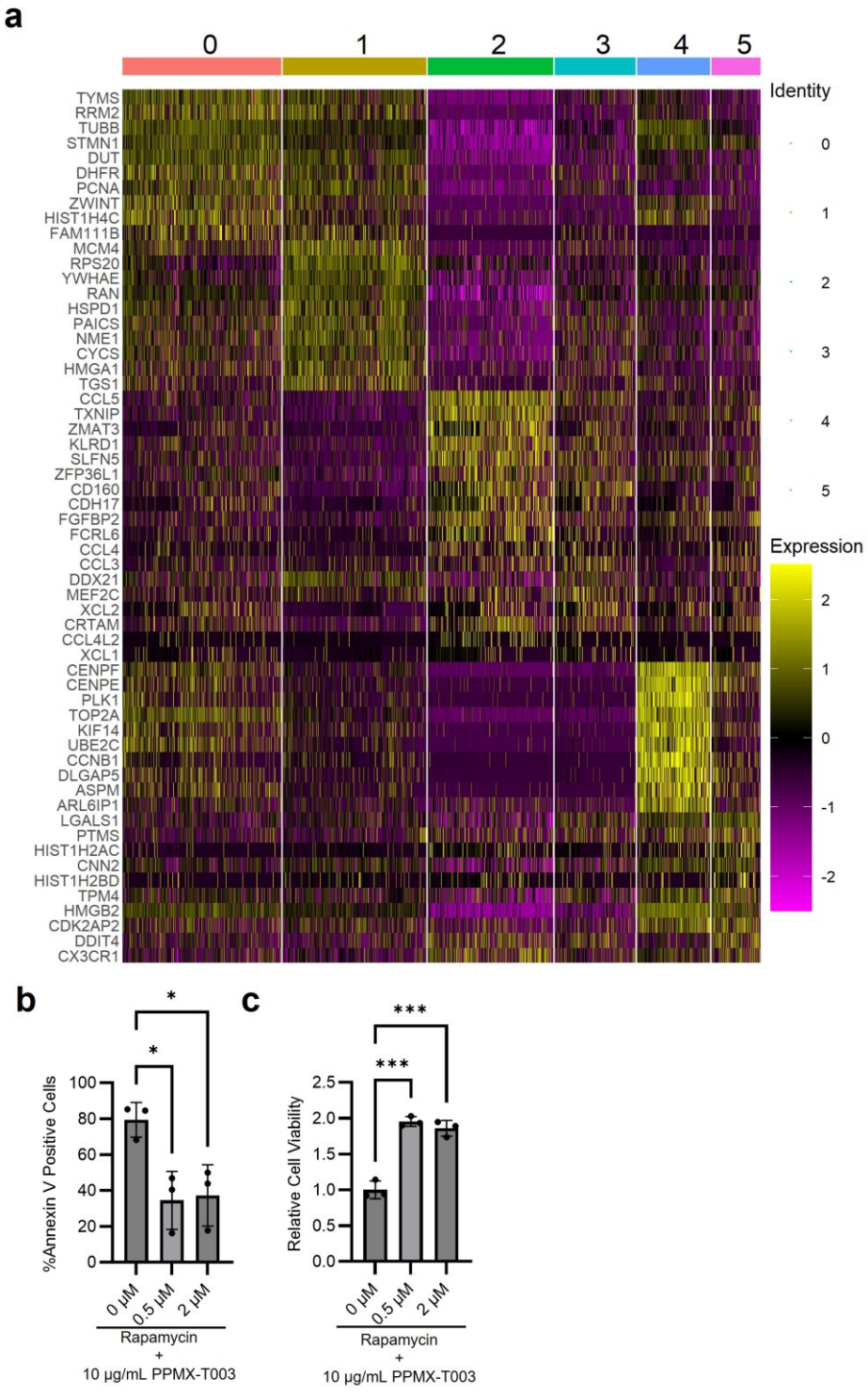
**e**. Negative selection RRA scores of all genes of Mouse #1. Red, green, and yellow dots indicate genes annotated in oxidative phosphorylation, DNA repair, and E2F targets, respectively, in MSigDB-HALLMARK.

**f.** Commonly dropped out sgRNAs targeting genes classified as DNA repair and E2F targets of HALLMARK gene sets in all 3 mice and their rank of negative selection RRA scores.

**g**. A schema of sample preparation for connectivity scoring analysis.

**h**. Ranking of connectivity scoring analysis referring to JFCR LinCAGE. Cytotoxic agents causing DNA damage were described with red character.

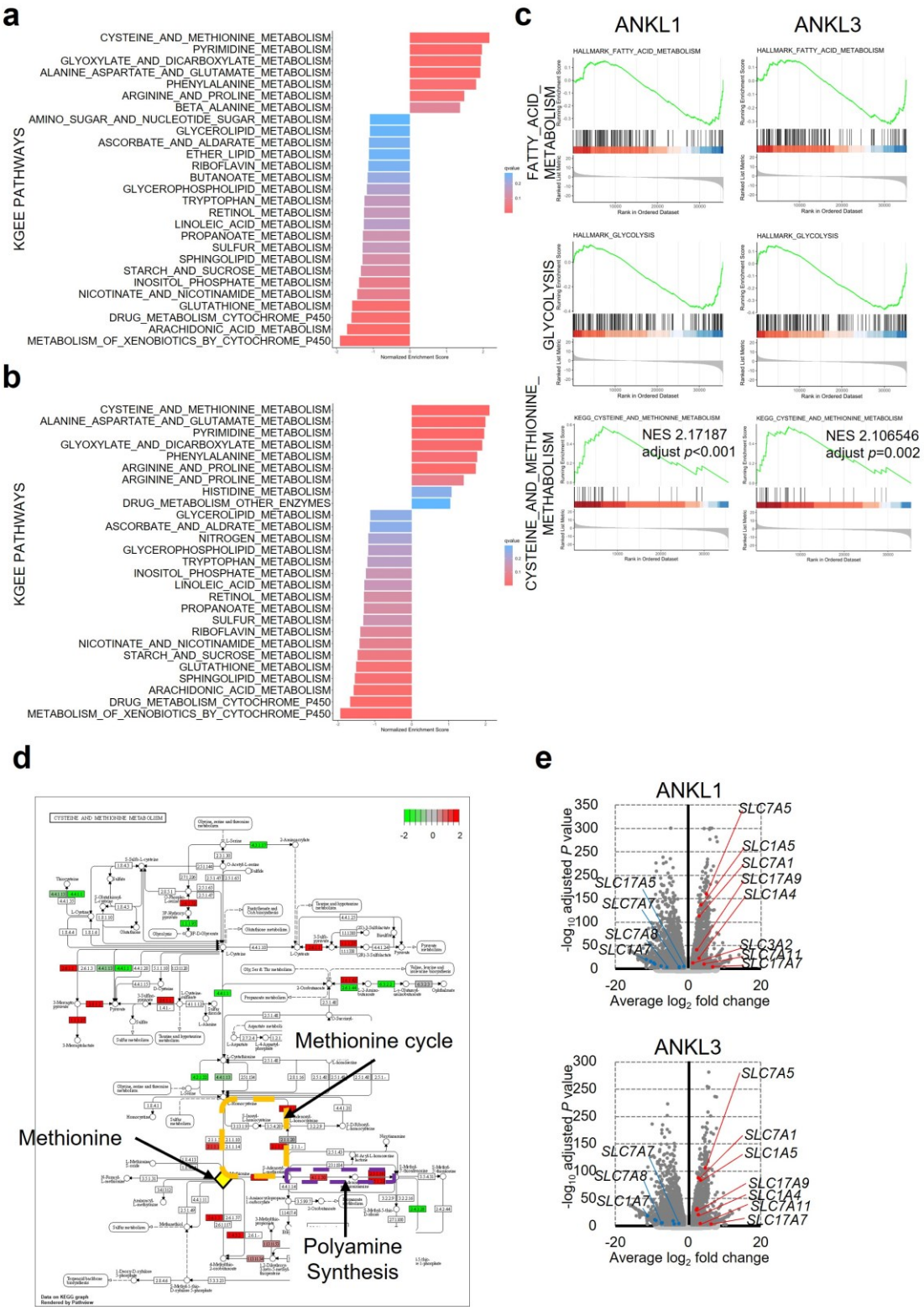
**i.** Measurement of γH2AX-positive cell proportion shown in **Figure 2g**. Total of three samples per treatment group were analyzed.




**Supplemental Figure S3. Single cell RNA-sequencing of ANKL1 cells treated with PPMX-T003 indicated the association of mTORC1 activity and cellular sensitivity to PPMX-T003.**

**a.** Heatmap of top 10 feature genes in each single cell transcriptome analysis cluster.

**b, c**. Apoptosis assay (**b**) and MTT cell viability assay (**c**) of NK92 treated with various concentrations of rapamycin and 10 μg/mL of PPMX-T003 *in vitro* for 48 h. Total of three samples per treatment group were analyzed.




**Supplemental Figure S4. ANKL cells require LAT1-mediated amino acid influx for proliferation.**

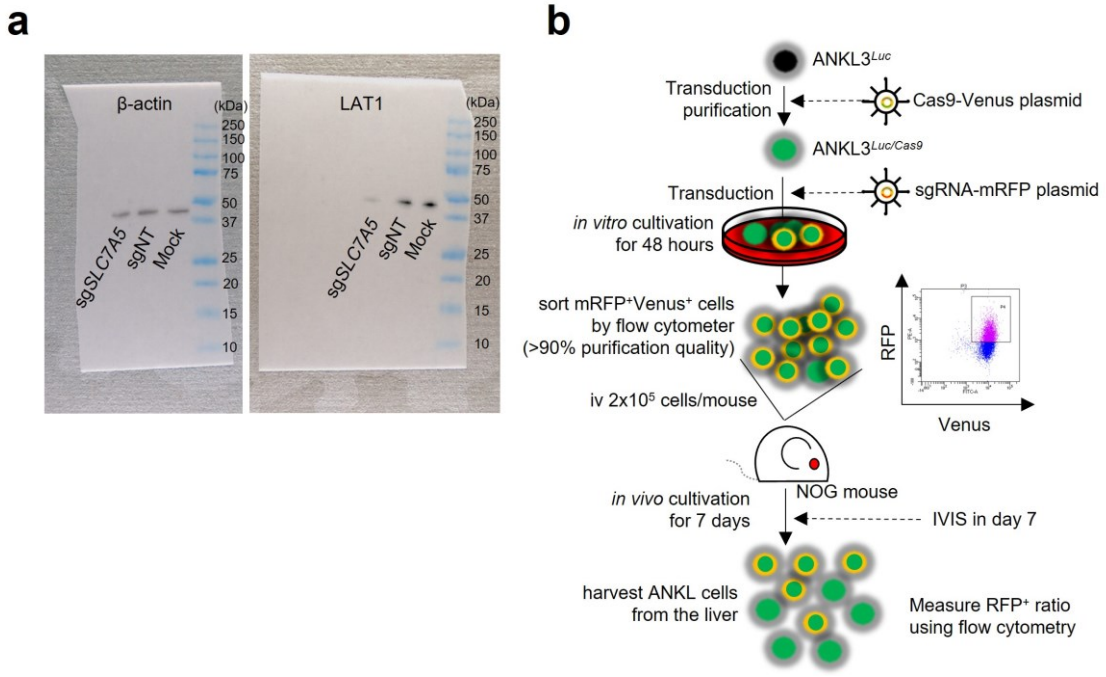
**a–b.** GSEA of liver-derived ANKL1 (**a**) or ANKL3 (**b**) cells compared with normal NK cells using

the KEGG pathway database. Pathways associated with metabolism with an adjusted *p* value of less than 0.25 were extracted.

**c.** GSEA plots of "FATTY_ACID_METABOLISM", "GLYCOLYSIS", and "CYSTEINE_AND_METHIONINE_METABOLISM" comparing liver-derived ANKL and normal NK cells.

**d.** Pathview of "KEGG_CYSTEIN_AND METHIONINE_METABOLISM" in **Supplemental Figure S3a** (liver-derived ANKL1 cells versus normal NK cells). The yellow rhombus, orange dashed line, and purple dashed line indicate the methionine, methionine cycle, and polyamine synthesis pathway, respectively.

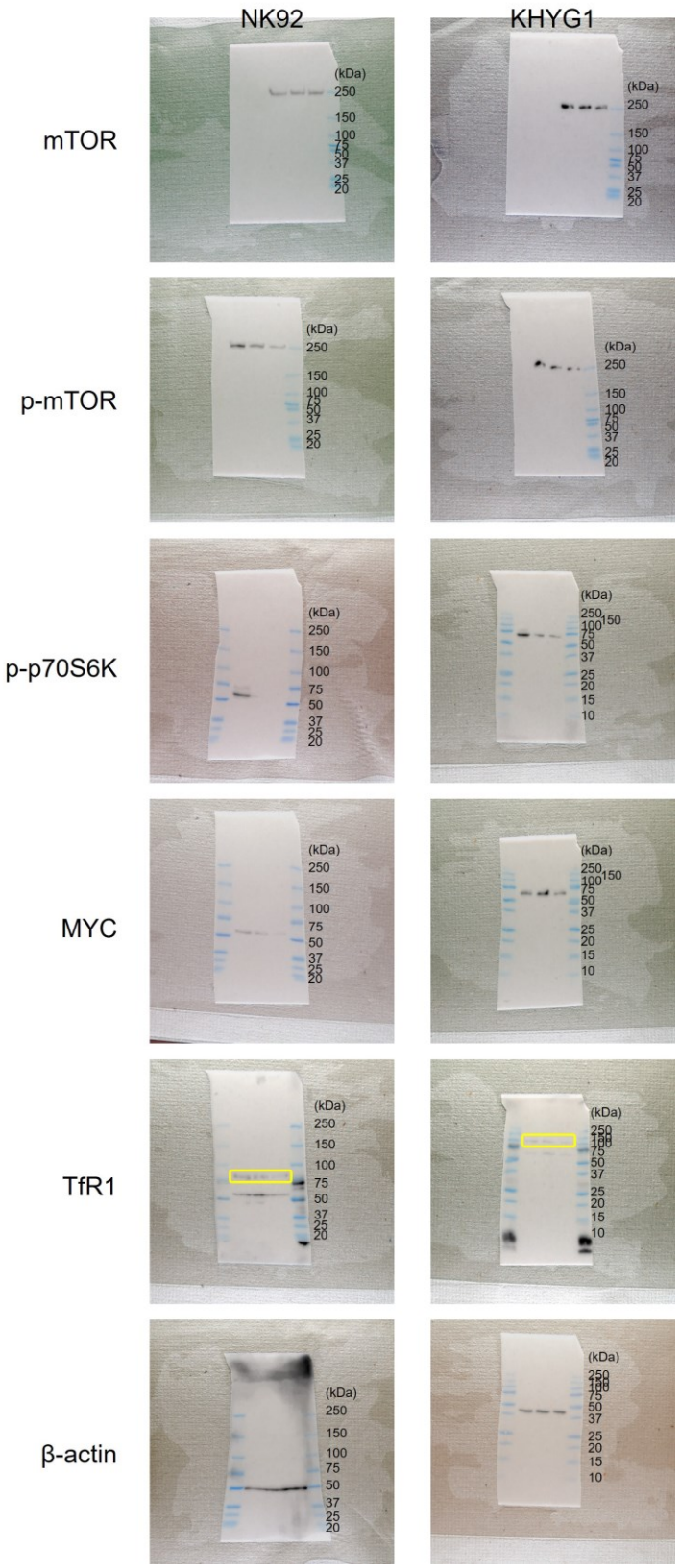
**e**. Volcano plots of the bulk transcriptome of liver-derived ANKL and normal NK cells. Red (increase) and blue (decrease) dots indicate SLC family genes and annotated dots indicate amino acid transporters.



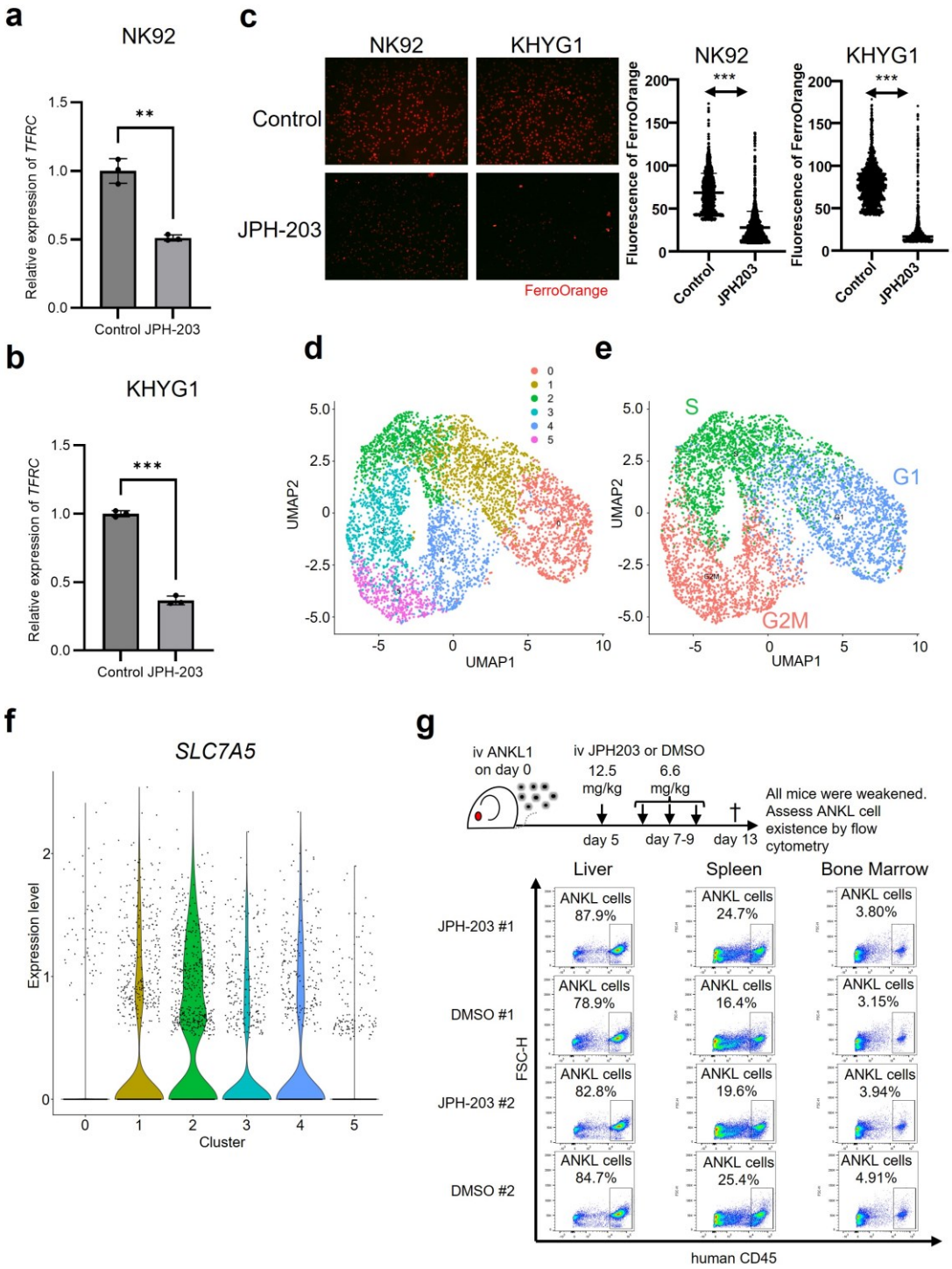

**Supplemental Figure S5. CRISPR-Cas9 mediated *SLC7A5* knockout analyses.**

**a.** Western blotting of Cas9-overexpressed NK92 cells transduced with sgNT-, sg*SLC7A5*-, and empty (mock)-RFP plasmids to validate the knockout efficiency of LAT1 due to sg*SLC7A5*.

**b.** Scheme of *in vivo* competitive proliferation assay of ANKL3 cells transduced with Cas9 and sgRNAs.




**Supplemental Figure S6. Non-cropped pictures of western blotting shown in Figure 6d.**




**Supplemental Figure S7. JPH203 reduces mTOR/MYC activity and cellular content of ferrous ions.**

**a–b.** Quantitative PCR of *TFRC* transcription of NK92 (**a**) and KHYG1 (**b**) treated with 40 μM of JPH-203 for 6 h.

**c.** Intracellular ferrous ion ($Fe^{2+}$) staining of control or JPH-203-treated NK92 and KHYG1 cells, using FerroOrange with or without the existence of 40 μM JPH-203.

**d.** Unsupervised clustering of pretreated liver-derived ANKL1 cells described in **Figure 3a**.

**e.** Cell cycle scoring analysis of liver-derived ANKL1 cells.

**f.** Violin plot of *SLC7A5* expression of liver-derived ANKL1 cells per cluster.

**g.** Flow cytometric analysis of ANKL1-PDXs treated with JPH-203 or dimethyl sulfoxide (DMSO). Total of two mice per group were analyzed, and all mice were weakened and sacrificed in day 13.

**Supplemental Table S1. sgRNA library targeting genes encode iron-requirement molecules**

| # | sgRNA ID | Symbol | Chromosome | sgRNA location | Genomic strand targeted | sgRNA sequence |
|---|---|---|---|---|---|---|
| 1 | sgABAT_1 | ABAT | chr16 | 8862079 | - | GGAACGCGCCCATGAAGGAG |
| 2 | sgABAT_2 | ABAT | chr16 | 8868765 | + | GTGGACGAGGTCCAGACCGG |
| 3 | sgABAT_3 | ABAT | chr16 | 8851624 | - | TGAGTTTCAGCAGGGCGGGG |
| 4 | sgABAT_4 | ABAT | chr16 | 8860079 | + | GCAGAGGGGCTTCTCCCAGG |
| 5 | sgABAT_5 | ABAT | chr16 | 8862054 | - | GCTGTAGTCGGGGCAGCCAG |
| 6 | sgABAT_6 | ABAT | chr16 | 8862788 | + | TGTGAAAGAGAACCAACAGG |
| 7 | sgABAT_7 | ABAT | chr16 | 8829604 | - | GCGCTGGGCGAGCAACATGG |
| 8 | sgABAT_8 | ABAT | chr16 | 8829631 | - | GTAGCTGTGCTGGAAGCTGC |
| 9 | sgABAT_9 | ABAT | chr16 | 8829653 | - | GCTTACCAGGCACCAGCAGG |
| 10 | sgABAT_10 | ABAT | chr16 | 8839920 | - | GGGACTTCCGTCTTCATCAG |
| 11 | sgABCB6_1 | ABCB6 | chr2 | 220075503 | - | CGGGGACTGAAGCTGAGCGG |
| 12 | sgABCB6_2 | ABCB6 | chr2 | 220083173 | + | GCACGTAGGGAGAGATGCGA |
| 13 | sgABCB6_3 | ABCB6 | chr2 | 220083135 | + | GGGCAGCGCCGCCTGAAGTG |
| 14 | sgABCB6_4 | ABCB6 | chr2 | 220083045 | + | GGCCAGACTCTCCAGCACGG |
| 15 | sgABCB6_5 | ABCB6 | chr2 | 220082874 | - | GGAACAGCCCACAGTGGTGG |
| 16 | sgABCB6_6 | ABCB6 | chr2 | 220082440 | + | GGACTGGGGACGAAGTCCAG |
| 17 | sgABCB6_7 | ABCB6 | chr2 | 220081482 | + | ACAGGTAGCCACTCAGGAGG |
| 18 | sgABCB6_8 | ABCB6 | chr2 | 220078317 | + | GTAGGTGCCAAACCAATTGA |
| 19 | sgABCB6_9 | ABCB6 | chr2 | 220074959 | - | GGATGGCTGCATCGTGGAGA |
| 20 | sgABCB6_10 | ABCB6 | chr2 | 220083207 | + | AGACAGCGAATCAGCACCAG |
| 21 | sgABCB7_1 | ABCB7 | chrX | 74375988 | - | TTAGCGGCTCAGGTCCGCAG |
| 22 | sgABCB7_2 | ABCB7 | chrX | 74288866 | - | TGAGCCTGGAAAGCCTTCGG |
| 23 | sgABCB7_3 | ABCB7 | chrX | 74334591 | - | ACAGTTCTTAGATGCTGCAA |
| 24 | sgABCB7_4 | ABCB7 | chrX | 74332749 | - | TGGCATGGTCATGCAGGAGG |
| 25 | sgABCB7_5 | ABCB7 | chrX | 74332723 | - | CCACACAGACCCAAAAGAAG |
| 26 | sgABCB7_6 | ABCB7 | chrX | 74293708 | - | TCACAGTTGCAGTCACACGG |
| 27 | sgABCB7_7 | ABCB7 | chrX | 74290276 | + | ACAGTTCCCAGAAAGTTCAG |
| 28 | sgABCB7_8 | ABCB7 | chrX | 74284929 | - | TGGATATGACACCCAAGTAG |
| 29 | sgABCB7_9 | ABCB7 | chrX | 74376048 | + | CTTTTCGAAAGCAGCCGCCG |
| 30 | sgABCB7_10 | ABCB7 | chrX | 74376015 | + | TAAAGGCCGGATCAGAATCG |
| 31 | sgABCE1_1 | ABCE1 | chr4 | 146042361 | + | GGAAGACTTAAACCTGATGA |
| 32 | sgABCE1_2 | ABCE1 | chr4 | 146044414 | - | CAGCAGGTTTGCCCAAGCAA |
| 33 | sgABCE1_3 | ABCE1 | chr4 | 146029177 | - | GACAATTGATAAGGCGCCAA |
| 34 | sgABCE1_4 | ABCE1 | chr4 | 146031261 | - | AAAATCTCCTGCCAGTCAGG |
| 35 | sgABCE1_5 | ABCE1 | chr4 | 146031371 | + | CCAGATTCCTAAGGCTGCAA |
| 36 | sgABCE1_6 | ABCE1 | chr4 | 146031360 | - | GGAATCTGGTCTACATATTG |
| 37 | sgABCE1_7 | ABCE1 | chr4 | 146031514 | + | TATATTGTGGCAGGGGACAG |
| 38 | sgABCE1_8 | ABCE1 | chr4 | 146029246 | - | CCTGTGAAGTTTGAAGGCAT |
| 39 | sgABCE1_9 | ABCE1 | chr4 | 146031381 | - | AAACCGACCTTTGCAGCCTT |
| 40 | sgABCE1_10 | ABCE1 | chr4 | 146044400 | + | GTAGCTTTAGCCCTTTGCTT |
| 41 | sgABCG2_1 | ABCG2 | chr4 | 89034518 | + | GAGTTGATGACAGAAGGAGG |
| 42 | sgABCG2_2 | ABCG2 | chr4 | 89053743 | - | GCCATCCTGGGACCCACAGG |
| 43 | sgABCG2_3 | ABCG2 | chr4 | 89053034 | - | GCTGCAAGGAAAGATCCAAG |
| 44 | sgABCG2_4 | ABCG2 | chr4 | 89022423 | + | AACACTGCTGAAACACTGGT |
| 45 | sgABCG2_5 | ABCG2 | chr4 | 89053728 | + | GAAGATTTGCCTCCACCTGT |
| 46 | sgABCG2_6 | ABCG2 | chr4 | 89052227 | - | AGAGTTAGGTCTGGATAAAG |
| 47 | sgABCG2_7 | ABCG2 | chr4 | 89042840 | + | AGGCTCATCCAAGAACAAGA |
| 48 | sgABCG2_8 | ABCG2 | chr4 | 89039262 | + | AGCTGATTCAAAGTATCCCA |
| 49 | sgABCG2_9 | ABCG2 | chr4 | 89036139 | - | TAATGGAGATTCCACTGCTG |
| 50 | sgABCG2_10 | ABCG2 | chr4 | 89036125 | + | TCTGTTTAATGCCACAGCAG |
| 51 | sgACO1_1 | ACO1 | chr9 | 32418367 | - | GGTGGATGATTCCTGAGCCA |
| 52 | sgACO1_2 | ACO1 | chr9 | 32420859 | - | CCACTACCCCAACCTGGCGG |
| 53 | sgACO1_3 | ACO1 | chr9 | 32429408 | + | GGTGTCTAGGTTTGACGTGG |
| 54 | sgACO1_4 | ACO1 | chr9 | 32418410 | + | AGAGTGGTATTTGATCAGGA |
| 55 | sgACO1_5 | ACO1 | chr9 | 32419132 | - | AGTGGATGTTACCAGAGGGT |
| 56 | sgACO1_6 | ACO1 | chr9 | 32423396 | + | TCAAGACCCAGACTTCACCC |
| 57 | sgACO1_7 | ACO1 | chr9 | 32425918 | - | GACCACAGAACCATGAGCAA |
| 58 | sgACO1_8 | ACO1 | chr9 | 32429442 | + | ATGACCTGCATTGGCAACAG |
| 59 | sgACO1_9 | ACO1 | chr9 | 32434677 | + | GCTCGCTACTTAACTAACAG |

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|---|---|---|---|---|---|---|
| 60 | sgACO1_10 | ACO1 | chr9 | 32436284 | - | TGACGGCGTCATTACCTCGG |
| 61 | sgACO2_1 | ACO2 | chr22 | 41919830 | + | GCAGGAAGGACATCAAGAAG |
| 62 | sgACO2_2 | ACO2 | chr22 | 41904025 | + | GGGGCGAGAAAGACCTGCGC |
| 63 | sgACO2_3 | ACO2 | chr22 | 41907916 | + | GCAGGTGCCAAATATGGCGT |
| 64 | sgACO2_4 | ACO2 | chr22 | 41920918 | + | GGATGGCAAGAAGTTCAGGC |
| 65 | sgACO2_5 | ACO2 | chr22 | 41923318 | + | CGGAGACGAGAACTACGGCG |
| 66 | sgACO2_6 | ACO2 | chr22 | 41923944 | - | GTAGTCAGCCGGGTCAGCGA |
| 67 | sgACO2_7 | ACO2 | chr22 | 41903954 | + | CAGCAGCGGGCTGTCCAAGG |
| 68 | sgACO2_8 | ACO2 | chr22 | 41911843 | + | GGCATCCTCACGGTGAAAGG |
| 69 | sgACO2_9 | ACO2 | chr22 | 41916258 | + | ATGGCCTCTGGACATCCGAG |
| 70 | sgACO2_10 | ACO2 | chr22 | 41918972 | - | ATAGCCGTCCCGCTCAATGG |
| 71 | sgACP5_1 | ACP5 | chr19 | 11687213 | - | GCTCAAGAAACAGCTGGCGG |
| 72 | sgACP5_2 | ACP5 | chr19 | 11688061 | + | AGGGGTGGCACCATCAGCCA |
| 73 | sgACP5_3 | ACP5 | chr19 | 11688029 | - | GTAGCCGTGGGTGACTGGGG |
| 74 | sgACP5_4 | ACP5 | chr19 | 11687562 | + | GGGCAGAGACATTGCCAAGG |
| 75 | sgACP5_5 | ACP5 | chr19 | 11687375 | + | GCAGGCGGTAGAAAGGGCTG |
| 76 | sgACP5_6 | ACP5 | chr19 | 11687120 | + | GTAGCTGCTTGACCAGGCAG |
| 77 | sgACP5_7 | ACP5 | chr19 | 11688046 | + | TACAAAGCGCAGGGCAGGGG |
| 78 | sgACP5_8 | ACP5 | chr19 | 11687604 | + | CGTACCAGGGCACTTTGCGA |
| 79 | sgACP5_9 | ACP5 | chr19 | 11687192 | - | GGCCAGGGAGGACTACGTGC |
| 80 | sgACP5_10 | ACP5 | chr19 | 11687979 | - | CCGGGAAATGGCCAATGCCA |
| 81 | sgADHFE1_1 | ADHFE1 | chr8 | 67356882 | - | GCACAGGAGGGAGCTTGGAG |
| 82 | sgADHFE1_2 | ADHFE1 | chr8 | 67361147 | - | GGCATGTGGAGGGTGTGCAG |
| 83 | sgADHFE1_3 | ADHFE1 | chr8 | 67361110 | + | GAGAGCCATCAAACCCACAC |
| 84 | sgADHFE1_4 | ADHFE1 | chr8 | 67361184 | - | AAGCACATCAAAGCCACTGT |
| 85 | sgADHFE1_5 | ADHFE1 | chr8 | 67366371 | + | GAAATGCTGGTGTTCATCTG |
| 86 | sgADHFE1_6 | ADHFE1 | chr8 | 67369310 | - | TGAGCACCACAGAAAGGCCA |
| 87 | sgADHFE1_7 | ADHFE1 | chr8 | 67369336 | - | CGTGAAAGTGAACACCGCTG |
| 88 | sgADHFE1_8 | ADHFE1 | chr8 | 67356920 | - | GGGGATGCCATTCTTCACTA |
| 89 | sgADHFE1_9 | ADHFE1 | chr8 | 67357496 | + | GCCTATGTTGCTGTCGGTGG |
| 90 | sgADHFE1_10 | ADHFE1 | chr8 | 67357563 | - | TAGGAAATCAGAATGAGGGC |
| 91 | sgADI1_1 | ADI1 | chr2 | 3504600 | + | GAAGCGGTGATAGATCCCCG |
| 92 | sgADI1_2 | ADI1 | chr2 | 3523168 | + | GCTGCTCCAGGCCCACTGGG |
| 93 | sgADI1_3 | ADI1 | chr2 | 3504666 | - | TGAGGGACAAGGAGGACCAG |
| 94 | sgADI1_4 | ADI1 | chr2 | 3504619 | - | GACATGGTGACGCTCCCCGC |
| 95 | sgADI1_5 | ADI1 | chr2 | 3517682 | - | GAAGAGAGAGGAACTACTCC |
| 96 | sgADI1_6 | ADI1 | chr2 | 3504644 | - | GATCCGGATCTTCATGGAGA |
| 97 | sgADI1_7 | ADI1 | chr2 | 3517694 | - | TAGAAAAGATCCGAAGAGAG |
| 98 | sgADI1_8 | ADI1 | chr2 | 3504684 | - | GCAGTGGGTACTTCGATGTG |
| 99 | sgADI1_9 | ADI1 | chr2 | 3523228 | - | CTGGTATATGGACGACGCCC |
| 100 | sgADI1_10 | ADI1 | chr2 | 3504706 | - | GAGATCCGCTACATCCTGGA |
| 101 | sgADO_1 | ADO | chr10 | 64565219 | + | GACAAGCTAGACGCGGGCGG |
| 102 | sgADO_2 | ADO | chr10 | 64565029 | - | GCTGCAGTGTGGCCTTGCGC |
| 103 | sgADO_3 | ADO | chr10 | 64565161 | - | GCATGCCGTGCATGCCCGGG |
| 104 | sgADO_4 | ADO | chr10 | 64565332 | + | TTCGCGGGCCGAGTACACCG |
| 105 | sgADO_5 | ADO | chr10 | 64565365 | - | GGTGCGGTGTGAGGATGCAG |
| 106 | sgADO_6 | ADO | chr10 | 64565497 | + | GGAGCCGGTCAGGCCCAAGG |
| 107 | sgADO_7 | ADO | chr10 | 64564864 | - | GGAAGGTGAGGCAAGCCTGG |
| 108 | sgADO_8 | ADO | chr10 | 64565077 | + | CTACATGCACATCTACGAGA |
| 109 | sgADO_9 | ADO | chr10 | 64565113 | - | TCTTGAGCAGGAACACGCCC |
| 110 | sgADO_10 | ADO | chr10 | 64565145 | - | CGGGTGGTCGTGCAGCGGGA |
| 111 | sgAFM_1 | AFM | chr4 | 74350026 | + | GGAAAAGCTGGTGAAAGACA |
| 112 | sgAFM_2 | AFM | chr4 | 74351720 | - | GGATCCAGGGTAGGGAAAGG |
| 113 | sgAFM_3 | AFM | chr4 | 74357655 | + | GAAAAGAAAATACCAGAGCG |
| 114 | sgAFM_4 | AFM | chr4 | 74361129 | - | GCGTAACGGTAACAACCTGG |
| 115 | sgAFM_5 | AFM | chr4 | 74365862 | - | AAATCTTGAGAGAAAGGTGG |
| 116 | sgAFM_6 | AFM | chr4 | 74352741 | + | TGTTGCTGTTCATTTTGAGG |
| 117 | sgAFM_7 | AFM | chr4 | 74365823 | - | GCTTTCAAACTCTCAAAGCA |
| 118 | sgAFM_8 | AFM | chr4 | 74347551 | + | TAACCCTGCCCACACAACCT |
| 119 | sgAFM_9 | AFM | chr4 | 74352730 | - | ACAGCAACAGTTAGAAGTGT |
| 120 | sgAFM_10 | AFM | chr4 | 74363428 | + | ACATTTCCAGAATTTGGGGA |

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|---|---|---|---|---|---|---|
| 121 | sgAFP_1 | AFP | chr4 | 74315789 | + | GCATTGGCAAAGCGAAGCTG |
| 122 | sgAFP_2 | AFP | chr4 | 74319503 | + | GCAAAAGCCACAAATAACAG |
| 123 | sgAFP_3 | AFP | chr4 | 74318154 | + | GAAATGACTCCAGTAAACCC |
| 124 | sgAFP_4 | AFP | chr4 | 74310789 | + | GTACATGAGCACTGTTGCAG |
| 125 | sgAFP_5 | AFP | chr4 | 74316373 | - | GATGGCCATCAGCTCCGACG |
| 126 | sgAFP_6 | AFP | chr4 | 74303967 | + | ACTGCAATTGAGAAACCCAC |
| 127 | sgAFP_7 | AFP | chr4 | 74303985 | - | GAAGACTGTTCATCTCCAGT |
| 128 | sgAFP_8 | AFP | chr4 | 74308059 | - | GCAGCCCAAAGAAGAATTGT |
| 129 | sgAFP_9 | AFP | chr4 | 74310816 | + | GTGCTGGATTGTCTGCAGGA |
| 130 | sgAFP_10 | AFP | chr4 | 74313245 | + | AAACTGACCACGCTGGAACG |
| 131 | sgAGMO_1 | AGMO | chr7 | 15599808 | + | GCATCATCCAGGCGACCTGG |
| 132 | sgAGMO_2 | AGMO | chr7 | 15601431 | + | GGGAAACTGAAACATCCTGC |
| 133 | sgAGMO_3 | AGMO | chr7 | 15470651 | + | GACAGACTGTCTCAGTGCTG |
| 134 | sgAGMO_4 | AGMO | chr7 | 15458185 | - | CCAATTTTGGATCCATACAG |
| 135 | sgAGMO_5 | AGMO | chr7 | 15601449 | - | GAAGAACCCAGAAGCCCAGC |
| 136 | sgAGMO_6 | AGMO | chr7 | 15584456 | + | CAAGTCCATGGAGAATCCCA |
| 137 | sgAGMO_7 | AGMO | chr7 | 15584391 | + | GCTTACCATGAGCCATACGA |
| 138 | sgAGMO_8 | AGMO | chr7 | 15433771 | + | GAATCAGTTCCAAAGGACCA |
| 139 | sgAGMO_9 | AGMO | chr7 | 15427033 | - | TCTCAGTGAAGAAATTCCAG |
| 140 | sgAGMO_10 | AGMO | chr7 | 15405805 | + | TAATGAAGCAAACCCTCAGA |
| 141 | sgAIFM3_1 | AIFM3 | chr22 | 21327594 | + | AGTGGAGCTCAAGATCGAGG |
| 142 | sgAIFM3_2 | AIFM3 | chr22 | 21327757 | - | GCAGCCTCCACGCAATCCTG |
| 143 | sgAIFM3_3 | AIFM3 | chr22 | 21331176 | + | GAAGTTCTACATGCAGACGG |
| 144 | sgAIFM3_4 | AIFM3 | chr22 | 21333576 | + | GAACATGTTGGCGCAGGAGG |
| 145 | sgAIFM3_5 | AIFM3 | chr22 | 21327645 | + | GGAGCTGTCGGCCAGTGGGA |
| 146 | sgAIFM3_6 | AIFM3 | chr22 | 21327699 | + | GGCCCGCCACTTCCACACGG |
| 147 | sgAIFM3_7 | AIFM3 | chr22 | 21328540 | + | GGTGAAGATTGAGAAGGAGA |
| 148 | sgAIFM3_8 | AIFM3 | chr22 | 21328825 | + | GCAGCGAAGGACCAAGGTGA |
| 149 | sgAIFM3_9 | AIFM3 | chr22 | 21329078 | - | GCTTGGGACGGTCGTAGGGA |
| 150 | sgAIFM3_10 | AIFM3 | chr22 | 21330494 | + | GGGATTGCAGGTGGTCACAG |
| 151 | sgALB_1 | ALB | chr4 | 74272360 | - | CTGCTGAAGATACTGAGCAA |
| 152 | sgALB_2 | ALB | chr4 | 74280853 | - | GCATTCATGAGGATCTGCAG |
| 153 | sgALB_3 | ALB | chr4 | 74285332 | + | TAAGGAGACCTGCTTTGCCG |
| 154 | sgALB_4 | ALB | chr4 | 74270100 | - | ATCTCGACGAAACACACCCC |
| 155 | sgALB_5 | ALB | chr4 | 74276034 | + | TGAACTTCGGGATGAAGGGA |
| 156 | sgALB_6 | ALB | chr4 | 74283300 | + | GTAGAGGTCTCAAGAAACCT |
| 157 | sgALB_7 | ALB | chr4 | 74283890 | - | GCATGGTCGCCTGTTCACCA |
| 158 | sgALB_8 | ALB | chr4 | 74270031 | + | ACGCCTTTGGCACAATGAAG |
| 159 | sgALB_9 | ALB | chr4 | 74274344 | + | GCAACTCTTCGTGAAACCTA |
| 160 | sgALB_10 | ALB | chr4 | 74274363 | - | GCAGTCAGCCATTTCACCAT |
| 161 | sgALKBH1_1 | ALKBH1 | chr14 | 78174332 | - | CGAGATGGGGAAGATGGCAG |
| 162 | sgALKBH1_2 | ALKBH1 | chr14 | 78174206 | - | AGGGGTCATCGACTTCTCGG |
| 163 | sgALKBH1_3 | ALKBH1 | chr14 | 78170765 | - | GAGCAGAATGCATATAGAGC |
| 164 | sgALKBH1_4 | ALKBH1 | chr14 | 78146262 | - | GTTTACTGGAGAAACTGCGT |
| 165 | sgALKBH1_5 | ALKBH1 | chr14 | 78174261 | + | GAAGCGGAAAAGTTTCCGAA |
| 166 | sgALKBH1_6 | ALKBH1 | chr14 | 78174224 | - | CGGGACCGCAGACCTGGAAG |
| 167 | sgALKBH1_7 | ALKBH1 | chr14 | 78174170 | + | GGGCACCAGGACCCTTGCCA |
| 168 | sgALKBH1_8 | ALKBH1 | chr14 | 78161196 | + | AGTGCCACTGGTAACCTGGG |
| 169 | sgALKBH1_9 | ALKBH1 | chr14 | 78142091 | - | AGGATTTCCGAGCTGAAGCA |
| 170 | sgALKBH1_10 | ALKBH1 | chr14 | 78141993 | + | ACTCACCTGAATGACAGCAA |
| 171 | sgALKBH2_1 | ALKBH2 | chr12 | 109530446 | - | AGAGAGGCCCCAGGGAATGG |
| 172 | sgALKBH2_2 | ALKBH2 | chr12 | 109530475 | - | ACAAAGAAAGCACAAGGAAG |
| 173 | sgALKBH2_3 | ALKBH2 | chr12 | 109530570 | - | GGACAGATTCCTGGTGAAAG |
| 174 | sgALKBH2_4 | ALKBH2 | chr12 | 109530540 | - | GGGCCTTTTGAGGAAGCAGG |
| 175 | sgALKBH2_5 | ALKBH2 | chr12 | 109530436 | + | TGAGTGGCCTCCATTCCCTG |
| 176 | sgALKBH2_6 | ALKBH2 | chr12 | 109530363 | - | AGTCCTGTTTGGCAAAGCTG |
| 177 | sgALKBH2_7 | ALKBH2 | chr12 | 109530462 | - | AAGGAAGAGGCCCAGGAGAG |
| 178 | sgALKBH2_8 | ALKBH2 | chr12 | 109530421 | - | ACTCAGCAGGCCCTAGCTGG |
| 179 | sgALKBH2_9 | ALKBH2 | chr12 | 109530500 | - | GAAGAGCCAGCTGTGTTGGG |
| 180 | sgALKBH2_10 | ALKBH2 | chr12 | 109530378 | + | GGACTGTGTAACTGCAGTCC |
| 181 | sgALKBH3_1 | ALKBH3 | chr11 | 43904641 | - | GTGGAGATGGCTCTTAGCAG |

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|---|---|---|---|---|---|---|
| 182 | sgALKBH3_2 | ALKBH3 | chr11 | 43911340 | + | AAGATGTTCCCTGGAAACAG |
| 183 | sgALKBH3_3 | ALKBH3 | chr11 | 43911356 | + | ACAGAGGACTGGCATCAGAG |
| 184 | sgALKBH3_4 | ALKBH3 | chr11 | 43923184 | + | ATGATGAACCCTCACTAGGG |
| 185 | sgALKBH3_5 | ALKBH3 | chr11 | 43940614 | + | GGAAAGAGTGAAGATACCCT |
| 186 | sgALKBH3_6 | ALKBH3 | chr11 | 43904252 | - | AATGGCCTGGCTTTTAACAG |
| 187 | sgALKBH3_7 | ALKBH3 | chr11 | 43908172 | + | GAAATCAGCCTGTCACCCAC |
| 188 | sgALKBH3_8 | ALKBH3 | chr11 | 43923119 | - | AGAGTAAGGAGTTGAAGGTG |
| 189 | sgALKBH3_9 | ALKBH3 | chr11 | 43923195 | - | ATGGGGCACCTCCCTAGTGA |
| 190 | sgALKBH3_10 | ALKBH3 | chr11 | 43923270 | - | AAGAGAATACTCACTGGTGG |
| 191 | sgALKBH4_1 | ALKBH4 | chr7 | 102100144 | + | GATCAGCATCACTCCTGGGA |
| 192 | sgALKBH4_2 | ALKBH4 | chr7 | 102100125 | - | CGAGGACTTTGTGACCCGGG |
| 193 | sgALKBH4_3 | ALKBH4 | chr7 | 102100060 | - | AGCTCTCCCAGTCTGGACGG |
| 194 | sgALKBH4_4 | ALKBH4 | chr7 | 102105203 | - | GGACCTGTCTGATCTGCGAG |
| 195 | sgALKBH4_5 | ALKBH4 | chr7 | 102100084 | - | GGCTCATGGACCGTGACCCC |
| 196 | sgALKBH4_6 | ALKBH4 | chr7 | 102105229 | + | CCTTGCAACCGCATTCCCGA |
| 197 | sgALKBH4_7 | ALKBH4 | chr7 | 102100177 | - | AGGAGTCTGACTTTGAGGGC |
| 198 | sgALKBH4_8 | ALKBH4 | chr7 | 102100071 | + | GGGAGAGCTTCCAGGGGTCA |
| 199 | sgALKBH4_9 | ALKBH4 | chr7 | 102100218 | + | TGTCGGAGCAGTAAATGAAA |
| 200 | sgALKBH4_10 | ALKBH4 | chr7 | 102100110 | - | CCGGGAGGAAGAAGCCGAGT |
| 201 | sgALKBH5_1 | ALKBH5 | chr17 | 18110255 | - | CATCAGGGTCTGCCTTGCGG |
| 202 | sgALKBH5_2 | ALKBH5 | chr17 | 18087611 | + | GTCCCGGGACAACTATAAGG |
| 203 | sgALKBH5_3 | ALKBH5 | chr17 | 18087691 | - | GTAAGGTTCGGCGGCAGCGG |
| 204 | sgALKBH5_4 | ALKBH5 | chr17 | 18087798 | + | GAGGCGCGCAAGGTGAAGAG |
| 205 | sgALKBH5_5 | ALKBH5 | chr17 | 18087895 | - | GTACAGGCCCTTCTCAGCGC |
| 206 | sgALKBH5_6 | ALKBH5 | chr17 | 18087908 | + | CCTGTACAACGAGCACACGG |
| 207 | sgALKBH5_7 | ALKBH5 | chr17 | 18088088 | + | GGAGCACCGCGTCATCCCCG |
| 208 | sgALKBH5_8 | ALKBH5 | chr17 | 18088201 | - | AAAGAAGGACACGGACACGA |
| 209 | sgALKBH5_9 | ALKBH5 | chr17 | 18087863 | + | GATCGAGGCCCGCATTGACG |
| 210 | sgALKBH5_10 | ALKBH5 | chr17 | 18087884 | + | GGTGGTGTCCCGCGCTGAGA |
| 211 | sgALKBH6_1 | ALKBH6 | chr19 | 36501924 | - | GCTTCCTCATCCCCGAGGGA |
| 212 | sgALKBH6_2 | ALKBH6 | chr19 | 36501536 | - | ACTGTCAGCACCATCAGCCT |
| 213 | sgALKBH6_3 | ALKBH6 | chr19 | 36501499 | - | TGGACTTCTACGAGCCGCGG |
| 214 | sgALKBH6_4 | ALKBH6 | chr19 | 36505127 | - | GTGGGGCGGAAATGGCTGGG |
| 215 | sgALKBH6_5 | ALKBH6 | chr19 | 36505083 | - | GAAATTGGAGGGGACGCTGG |
| 216 | sgALKBH6_6 | ALKBH6 | chr19 | 36504269 | - | GGACGCCAGAGTCCCAGCCC |
| 217 | sgALKBH6_7 | ALKBH6 | chr19 | 36504248 | - | GGAACCGTTCAGAGTGGAGC |
| 218 | sgALKBH6_8 | ALKBH6 | chr19 | 36503966 | + | GGGACATAGTAGATTACAGG |
| 219 | sgALKBH6_9 | ALKBH6 | chr19 | 36502308 | - | GGGAGAAAGTTACAGAACTG |
| 220 | sgALKBH6_10 | ALKBH6 | chr19 | 36501846 | + | GGAGGCCTCCAAAGAGGCTG |
| 221 | sgALKBH7_1 | ALKBH7 | chr19 | 6374230 | + | GAGAGACAGAGAAGTCGCGC |
| 222 | sgALKBH7_2 | ALKBH7 | chr19 | 6372900 | - | GCAGGCGGCTCAGCACGGAA |
| 223 | sgALKBH7_3 | ALKBH7 | chr19 | 6373005 | - | GATCGTATTCGTAGCGGCGG |
| 224 | sgALKBH7_4 | ALKBH7 | chr19 | 6374296 | - | GGTCTGGCCGGGGCCAAAGG |
| 225 | sgALKBH7_5 | ALKBH7 | chr19 | 6374326 | - | CAGGTCCAGCACGTGCACGG |
| 226 | sgALKBH7_6 | ALKBH7 | chr19 | 6374354 | - | CGTGGGGCTTGATGTAGCCG |
| 227 | sgALKBH7_7 | ALKBH7 | chr19 | 6374492 | - | CAGGAGAGACAGGCCGGCGA |
| 228 | sgALKBH7_8 | ALKBH7 | chr19 | 6374519 | - | GTGCACCAGCCGCATAACGC |
| 229 | sgALKBH7_9 | ALKBH7 | chr19 | 6374529 | + | GCTGGTGCACACCCAGGAGC |
| 230 | sgALKBH7_10 | ALKBH7 | chr19 | 6374589 | - | GGAGGTACCTAAGGATGTAG |
| 231 | sgALKBH8_1 | ALKBH8 | chr11 | 107393133 | - | GCAGCACAAGACATACCCCT |
| 232 | sgALKBH8_2 | ALKBH8 | chr11 | 107422521 | + | AAGAAATACTCACCTTGCCC |
| 233 | sgALKBH8_3 | ALKBH8 | chr11 | 107403059 | + | ATCACCAGCAAACTCCGACG |
| 234 | sgALKBH8_4 | ALKBH8 | chr11 | 107396268 | - | GCATCTGAGAGTCTTAAAAG |
| 235 | sgALKBH8_5 | ALKBH8 | chr11 | 107424650 | + | TCTACTACCATGAGTCCTGG |
| 236 | sgALKBH8_6 | ALKBH8 | chr11 | 107422536 | - | AATCAGTATGAACCTGGGCA |
| 237 | sgALKBH8_7 | ALKBH8 | chr11 | 107403107 | - | ATGGATTTTAAGCACCCAGA |
| 238 | sgALKBH8_8 | ALKBH8 | chr11 | 107393068 | - | ATAGTGGCTGATATTGGATG |
| 239 | sgALKBH8_9 | ALKBH8 | chr11 | 107381668 | - | TTGGCAGTACCAGTCCGCAG |
| 240 | sgALKBH8_10 | ALKBH8 | chr11 | 107427710 | - | AGCCTGGTTGTTGCCAATGG |
| 241 | sgALOX12_1 | ALOX12 | chr17 | 6899465 | - | GGAGAAGAGCCAGGCCCCGG |
| 242 | sgALOX12_2 | ALOX12 | chr17 | 6900319 | + | GACATCCTGAGCCTGCCCGA |

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|---|---|---|---|---|---|---|
| 243 | sgALOX12_3 | ALOX12 | chr17 | 6902307 | - | GCAGTTCCAGGAGCTCAGGA |
| 244 | sgALOX12_4 | ALOX12 | chr17 | 6909218 | - | TCAGCTGAGCTGCCGCCCGA |
| 245 | sgALOX12_5 | ALOX12 | chr17 | 6909837 | + | AAAGGGATGACATAGTGAAG |
| 246 | sgALOX12_6 | ALOX12 | chr17 | 6909877 | + | CTGGTGTCGGGAGATCACGG |
| 247 | sgALOX12_7 | ALOX12 | chr17 | 6899499 | - | CGACCAGCCAAAGCTGCACG |
| 248 | sgALOX12_8 | ALOX12 | chr17 | 6901859 | + | GTTCCAGAAGCATCGAGAGA |
| 249 | sgALOX12_9 | ALOX12 | chr17 | 6902042 | - | GGGTAACCCTTCCTTCCAGG |
| 250 | sgALOX12_10 | ALOX12 | chr17 | 6902688 | - | GCGTCTCAACAGCATGGGGT |
| 251 | sgALOX12B_1 | ALOX12B | chr17 | 7990739 | - | GGCCACCTACAAAGTCAGGG |
| 252 | sgALOX12B_2 | ALOX12B | chr17 | 7990616 | - | GAGAGACTTTGCAACTGGGG |
| 253 | sgALOX12B_3 | ALOX12B | chr17 | 7989389 | + | GAAGTGGTAGATACGGCCGT |
| 254 | sgALOX12B_4 | ALOX12B | chr17 | 7983207 | + | GAGGTACTGGTACCCAAAGA |
| 255 | sgALOX12B_5 | ALOX12B | chr17 | 7982746 | + | GTCCAAAGTGCAGCAGGCAG |
| 256 | sgALOX12B_6 | ALOX12B | chr17 | 7980331 | + | GCAGGTTCCTCAGCAAGGCC |
| 257 | sgALOX12B_7 | ALOX12B | chr17 | 7979563 | + | GCTCCACAAAGTCATTGGGG |
| 258 | sgALOX12B_8 | ALOX12B | chr17 | 7989484 | + | GGATGATGATGAGCTCACCC |
| 259 | sgALOX12B_9 | ALOX12B | chr17 | 7989343 | - | CGAGACCCTGGCACTCCGGG |
| 260 | sgALOX12B_10 | ALOX12B | chr17 | 7984228 | - | GTTACCGCCCTCCGGTGCGG |
| 261 | sgALOX15_1 | ALOX15 | chr17 | 4542371 | - | GAAACACCGGGAAGAAGAGC |
| 262 | sgALOX15_2 | ALOX15 | chr17 | 4539214 | + | GTAGGCAAGAAAAGGGGAGG |
| 263 | sgALOX15_3 | ALOX15 | chr17 | 4544820 | - | GAAGCGACTGTGGCCCGCAC |
| 264 | sgALOX15_4 | ALOX15 | chr17 | 4542404 | + | GAGGGTCCTCGCCCACAGTG |
| 265 | sgALOX15_5 | ALOX15 | chr17 | 4542384 | - | AGGGCCTGTTCCAGAAACAC |
| 266 | sgALOX15_6 | ALOX15 | chr17 | 4539230 | + | GAGGTGGTGGGGATCCTGTG |
| 267 | sgALOX15_7 | ALOX15 | chr17 | 4536509 | + | CCGGTCGGCCAAGTCATCAG |
| 268 | sgALOX15_8 | ALOX15 | chr17 | 4535506 | + | GGTGCAGGTGAAGATACACA |
| 269 | sgALOX15_9 | ALOX15 | chr17 | 4535473 | + | TACCTGGCCCAGGTGCACAG |
| 270 | sgALOX15_10 | ALOX15 | chr17 | 4544907 | + | GCGAGGCCCCAGTGGACACG |
| 271 | sgALOX15B_1 | ALOX15B | chr17 | 7943245 | - | GCTGTTGCTGGAGCACAGGG |
| 272 | sgALOX15B_2 | ALOX15B | chr17 | 7942826 | - | GCGGTGTCAGCTGGAACCAG |
| 273 | sgALOX15B_3 | ALOX15B | chr17 | 7942895 | + | GGGGACCCTGGTGCTGCAGG |
| 274 | sgALOX15B_4 | ALOX15B | chr17 | 7946167 | + | AAAGGATCTTCAACTTCCGG |
| 275 | sgALOX15B_5 | ALOX15B | chr17 | 7948189 | - | GAGACCATTCAGGAACTGGG |
| 276 | sgALOX15B_6 | ALOX15B | chr17 | 7948279 | - | GGTCCCAGGACCCAACACTG |
| 277 | sgALOX15B_7 | ALOX15B | chr17 | 7948970 | - | GCAGTGGGGCAGCTGACGCA |
| 278 | sgALOX15B_8 | ALOX15B | chr17 | 7950933 | - | GGAGCAGGTGAATATCACCA |
| 279 | sgALOX15B_9 | ALOX15B | chr17 | 7951126 | + | AAAGGCCTGGCAACATGCGA |
| 280 | sgALOX15B_10 | ALOX15B | chr17 | 7945689 | + | GGAAGGCTTACAACCCAGGT |
| 281 | sgALOX5_1 | ALOX5 | chr10 | 45878056 | - | GGAACTCGATGTAGTCCCCG |
| 282 | sgALOX5_2 | ALOX5 | chr10 | 45938508 | + | GGCACGTGCAGATGGTGCAG |
| 283 | sgALOX5_3 | ALOX5 | chr10 | 45938556 | - | GGCCTCGGGAAAGCACAGGG |
| 284 | sgALOX5_4 | ALOX5 | chr10 | 45939207 | + | GCTGTCGGAGTACCTGACCG |
| 285 | sgALOX5_5 | ALOX5 | chr10 | 45939227 | - | GGAGGCGGTGAAGATCACCA |
| 286 | sgALOX5_6 | ALOX5 | chr10 | 45939260 | - | TACCTGGCCGAAGTTGACCG |
| 287 | sgALOX5_7 | ALOX5 | chr10 | 45878097 | + | GCGATGTCGAGGTTGTCCTG |
| 288 | sgALOX5_8 | ALOX5 | chr10 | 45920550 | + | GCGGCAGCTCAGCTTGGAGC |
| 289 | sgALOX5_9 | ALOX5 | chr10 | 45924131 | - | CCAGGAACTGGAGTGTGCAG |
| 290 | sgALOX5_10 | ALOX5 | chr10 | 45924202 | - | GCAGCCTACCTGGATGGCAA |
| 291 | sgALOXE3_1 | ALOXE3 | chr17 | 8013807 | - | GGACTACTGGATCCTGGCGG |
| 292 | sgALOXE3_2 | ALOXE3 | chr17 | 8013272 | - | GCAGGTGAACACCATCGCGA |
| 293 | sgALOXE3_3 | ALOXE3 | chr17 | 8013258 | + | GAGCAGCGTGGCCCTCGCGA |
| 294 | sgALOXE3_4 | ALOXE3 | chr17 | 8020115 | - | GATTGAAGGCTACTGCACCG |
| 295 | sgALOXE3_5 | ALOXE3 | chr17 | 8014751 | + | TGGGCAAGCTAGAGATGCAG |
| 296 | sgALOXE3_6 | ALOXE3 | chr17 | 8013454 | - | GCTGTGCGAGGCCTTCGCCA |
| 297 | sgALOXE3_7 | ALOXE3 | chr17 | 8013440 | + | GCGCAGCGTGGCCATGGCGA |
| 298 | sgALOXE3_8 | ALOXE3 | chr17 | 8012632 | + | GATGAGGCCTTGCCTCCCGA |
| 299 | sgALOXE3_9 | ALOXE3 | chr17 | 8012541 | + | TGGGGATAGCCAGGACGCCG |
| 300 | sgALOXE3_10 | ALOXE3 | chr17 | 8006692 | + | GCTGATGTTCACTTCAGGGA |
| 301 | sgAMBP_1 | AMBP | chr9 | 116823193 | + | AGGGCTGCCTACCATCACCA |
| 302 | sgAMBP_2 | AMBP | chr9 | 116840459 | + | GCAGCAAGAGCAGGGCCCCG |
| 303 | sgAMBP_3 | AMBP | chr9 | 116838973 | + | CCAGGGGCAGGTGGAACCGA |

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|---|---|---|---|---|---|---|
| 304 | sgAMBP_4 | AMBP | chr9 | 116838924 | - | GAGCACGCTGGTGCTGGGAG |
| 305 | sgAMBP_5 | AMBP | chr9 | 116836317 | + | GTAGAGCTTGGCAGTAATGG |
| 306 | sgAMBP_6 | AMBP | chr9 | 116825008 | - | GGCTGTGCTACCCCAAGAAG |
| 307 | sgAMBP_7 | AMBP | chr9 | 116823772 | - | TGTGAGACTTTCCAGTACGG |
| 308 | sgAMBP_8 | AMBP | chr9 | 116823241 | - | GAACAAGTTCTACTCAGAGA |
| 309 | sgAMBP_9 | AMBP | chr9 | 116823222 | - | AAGGAGTGCAGAGAGTACTG |
| 310 | sgAMBP_10 | AMBP | chr9 | 116840444 | - | GCTGCTGAGCGCCTGCCTGG |
| 311 | sgAMDHD1_1 | AMDHD1 | chr12 | 96337197 | - | GCTGCGCGTTCTCCAGCAGG |
| 312 | sgAMDHD1_2 | AMDHD1 | chr12 | 96350481 | + | ATGGAAATTCACCAGGCCGG |
| 313 | sgAMDHD1_3 | AMDHD1 | chr12 | 96350501 | + | AGGAGGGATCCACTTTACCG |
| 314 | sgAMDHD1_4 | AMDHD1 | chr12 | 96350561 | - | GGAGCCGTTGCTGCAAGGAG |
| 315 | sgAMDHD1_5 | AMDHD1 | chr12 | 96350591 | + | GAGGGCTGGCACCACGCTGG |
| 316 | sgAMDHD1_6 | AMDHD1 | chr12 | 96354245 | + | CAGAAATGGGGAAATACACG |
| 317 | sgAMDHD1_7 | AMDHD1 | chr12 | 96337219 | + | GTGGTGCTGGTGTGCGCCCG |
| 318 | sgAMDHD1_8 | AMDHD1 | chr12 | 96337287 | + | GGAAGGCGCCAGCCTGGTGG |
| 319 | sgAMDHD1_9 | AMDHD1 | chr12 | 96350525 | + | GCGCACGCGCCAAGCCACAG |
| 320 | sgAMDHD1_10 | AMDHD1 | chr12 | 96350665 | + | GCGTGATTGAGCGCGCCCGG |
| 321 | sgAOX1_1 | AOX1 | chr2 | 201468050 | + | GGATTGCCAGAATTTGAGGA |
| 322 | sgAOX1_2 | AOX1 | chr2 | 201469558 | - | GGGGTTCTACATACCCACAG |
| 323 | sgAOX1_3 | AOX1 | chr2 | 201460064 | + | GATACAACCCCATCACCAAG |
| 324 | sgAOX1_4 | AOX1 | chr2 | 201462134 | - | GATGGGAATCAGACAGGCAT |
| 325 | sgAOX1_5 | AOX1 | chr2 | 201477477 | - | GGAATTCTTGGCACAGATGG |
| 326 | sgAOX1_6 | AOX1 | chr2 | 201501746 | - | GTTTGCGGCAAATGCAGTGA |
| 327 | sgAOX1_7 | AOX1 | chr2 | 201515855 | + | GAAGAAGAAAGGACTGGCCA |
| 328 | sgAOX1_8 | AOX1 | chr2 | 201515903 | - | GACCAGCAGCACGTGAGCCA |
| 329 | sgAOX1_9 | AOX1 | chr2 | 201521598 | + | TCTGTGCTGGTCACTCACGG |
| 330 | sgAOX1_10 | AOX1 | chr2 | 201533383 | + | GAACTGAATTATTCTCCCCA |
| 331 | sgASPH_1 | ASPH | chr8 | 62596719 | - | ATGGAGGACACAAGAATGGG |
| 332 | sgASPH_2 | ASPH | chr8 | 62596735 | - | TAAACAGAGACAAAGCATGG |
| 333 | sgASPH_3 | ASPH | chr8 | 62596683 | - | CAGGAACTTCATTCTTCACG |
| 334 | sgASPH_4 | ASPH | chr8 | 62593571 | - | CTAGGAATCTATGATGCTGA |
| 335 | sgASPH_5 | ASPH | chr8 | 62593551 | - | TGGTGATGGAGATTTTGATG |
| 336 | sgASPH_6 | ASPH | chr8 | 62596702 | - | GGGAGGAAAGGCGGACTCTC |
| 337 | sgASPH_7 | ASPH | chr8 | 62566151 | - | TGAGCCACACACTGAGCCCG |
| 338 | sgASPH_8 | ASPH | chr8 | 62546244 | - | GAACAGCAGGAAGTACCACC |
| 339 | sgASPH_9 | ASPH | chr8 | 62563611 | - | GAAATGGTACACGCAGAACA |
| 340 | sgASPH_10 | ASPH | chr8 | 62563659 | + | GCTTCATCTTCGATATTCTG |
| 341 | sgASPHD2_1 | ASPHD2 | chr22 | 26829791 | - | GATAACAGTACCACACGAAG |
| 342 | sgASPHD2_2 | ASPHD2 | chr22 | 26829659 | + | GATGTCGCTCGAGTGGCTGG |
| 343 | sgASPHD2_3 | ASPHD2 | chr22 | 26829724 | - | CCGCACGGACTGGATGCCGG |
| 344 | sgASPHD2_4 | ASPHD2 | chr22 | 26829757 | - | GGCCACAGTGATGACAGCGG |
| 345 | sgASPHD2_5 | ASPHD2 | chr22 | 26829921 | + | GTGCGCTGCACCCACAACGA |
| 346 | sgASPHD2_6 | ASPHD2 | chr22 | 26829953 | + | GAAGCTGTACCACAACCTGC |
| 347 | sgASPHD2_7 | ASPHD2 | chr22 | 26830108 | - | GTCCCGGGAGAAATAGGGCG |
| 348 | sgASPHD2_8 | ASPHD2 | chr22 | 26830178 | - | AGAGGGTCTCAAACTCACAC |
| 349 | sgASPHD2_9 | ASPHD2 | chr22 | 26838498 | - | GGAAAGAGTCATCAAAGAGA |
| 350 | sgASPHD2_10 | ASPHD2 | chr22 | 26829838 | - | GAGGGAGTTGACGGAGACGT |
| 351 | sgBACH1_1 | BACH1 | chr21 | 30698546 | - | GCATTCTTGCTGGTCTGCAG |
| 352 | sgBACH1_2 | BACH1 | chr21 | 30698634 | + | GGATCTAGAAACTGATGAAG |
| 353 | sgBACH1_3 | BACH1 | chr21 | 30699303 | + | GAGTAGTGTGGAGCGAGAAG |
| 354 | sgBACH1_4 | BACH1 | chr21 | 30698692 | - | TACCTGCGGAGTTTACACTG |
| 355 | sgBACH1_5 | BACH1 | chr21 | 30698804 | - | TTTGGGGCATAAAGAAGGCA |
| 356 | sgBACH1_6 | BACH1 | chr21 | 30699384 | + | AATGCAGTTATCACCTGCTG |
| 357 | sgBACH1_7 | BACH1 | chr21 | 30699454 | - | CTAATCCTGATACCTAACCA |
| 358 | sgBACH1_8 | BACH1 | chr21 | 30699652 | + | GACTCTGAGACGGACACCGA |
| 359 | sgBACH1_9 | BACH1 | chr21 | 30693682 | - | ACAGCACATCTTTCTTCCGC |
| 360 | sgBACH1_10 | BACH1 | chr21 | 30693703 | + | CGATGTCACCATCTTTGTGG |
| 361 | sgBBOX1_1 | BBOX1 | chr11 | 27141327 | + | GGACTTTACAGACATTGGAG |
| 362 | sgBBOX1_2 | BBOX1 | chr11 | 27077028 | + | GCAGATCCTCTGGTATGATG |
| 363 | sgBBOX1_3 | BBOX1 | chr11 | 27077143 | + | GAAGCTCTTGATGTGAACAT |
| 364 | sgBBOX1_4 | BBOX1 | chr11 | 27114778 | + | ATGATGAACACGCATACAAG |

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|---|---|---|---|---|---|---|
| 365 | sgBBOX1_5 | BBOX1 | chr11 | 27141213 | + | CATAAAGCAAACAGTCACAG |
| 366 | sgBBOX1_6 | BBOX1 | chr11 | 27077121 | + | AAAAGCACGGAAACTTCTAG |
| 367 | sgBBOX1_7 | BBOX1 | chr11 | 27141295 | - | GACAAAATCTGGAATGCCTG |
| 368 | sgBBOX1_8 | BBOX1 | chr11 | 27141317 | - | TGTAAAGTCCACAAAGGTAG |
| 369 | sgBBOX1_9 | BBOX1 | chr11 | 27114722 | - | GGAGCTCTGAGCCCCAGTAT |
| 370 | sgBBOX1_10 | BBOX1 | chr11 | 27137089 | - | TTACCCCAGGTGGATGATGG |
| 371 | sgBCMO1_1 | BCMO1 | chr16 | 81295767 | - | GTTGTCGGTGAAATCGGGGA |
| 372 | sgBCMO1_2 | BCMO1 | chr16 | 81295867 | + | GACTCTGGAAACCCTGGAGA |
| 373 | sgBCMO1_3 | BCMO1 | chr16 | 81301572 | - | GGGGAGAGCAGGGAGCGGGA |
| 374 | sgBCMO1_4 | BCMO1 | chr16 | 81303831 | - | GACGTGATGGAAGACCACCA |
| 375 | sgBCMO1_5 | BCMO1 | chr16 | 81303987 | - | GGGCACGGCAAACCTCCTGA |
| 376 | sgBCMO1_6 | BCMO1 | chr16 | 81314491 | + | AGTGGCATCTACAACAGCCA |
| 377 | sgBCMO1_7 | BCMO1 | chr16 | 81319218 | + | GTGGAGTCCAATCCCAACCA |
| 378 | sgBCMO1_8 | BCMO1 | chr16 | 81303811 | + | CAAGTTTTACACAGACGCCA |
| 379 | sgBCMO1_9 | BCMO1 | chr16 | 81303848 | + | GTCAACGCCTACGAAGAGGA |
| 380 | sgBCMO1_10 | BCMO1 | chr16 | 81303919 | - | GGTTGGCCAGGTAGAAGAGC |
| 381 | sgBCO2_1 | BCO2 | chr11 | 112072877 | + | ACAGAATCTCAGGAAGGCTG |
| 382 | sgBCO2_2 | BCO2 | chr11 | 112085515 | + | GAGGACCTAGAAAAGGAAGG |
| 383 | sgBCO2_3 | BCO2 | chr11 | 112086997 | + | GGAACCAATGAAGAAGATGG |
| 384 | sgBCO2_4 | BCO2 | chr11 | 112071444 | + | GGGAACCCCAGTGTAATACG |
| 385 | sgBCO2_5 | BCO2 | chr11 | 112084558 | + | AGTGCTGTGAAACAGGCTGA |
| 386 | sgBCO2_6 | BCO2 | chr11 | 112064230 | + | TCACCAGTTCAGAATGGCAA |
| 387 | sgBCO2_7 | BCO2 | chr11 | 112070471 | + | GGAGACAATCCATGGAGTCC |
| 388 | sgBCO2_8 | BCO2 | chr11 | 112084476 | - | AAGGCAAAACAAACCTTCGA |
| 389 | sgBCO2_9 | BCO2 | chr11 | 112070441 | + | TCGGGTTCCTCCAGAGAAGG |
| 390 | sgBCO2_10 | BCO2 | chr11 | 112071457 | + | TAATACGCGGTTTCATGTGG |
| 391 | sgBOLA1_1 | BOLA1 | chr1 | 149871760 | + | GAGCTTCGCAACGAGAGCGG |
| 392 | sgBOLA1_2 | BOLA1 | chr1 | 149871801 | + | CAGTGAGACTCACTTCCGCG |
| 393 | sgBOLA1_3 | BOLA1 | chr1 | 149871819 | - | GAGAGCTCACCACAGCCACG |
| 394 | sgBOLA1_4 | BOLA1 | chr1 | 149871903 | + | GGGAGGTCCGGTCCATGCGC |
| 395 | sgBOLA1_5 | BOLA1 | chr1 | 149871947 | - | AGAGTTCTCTCTCCACTGGG |
| 396 | sgBOLA1_6 | BOLA1 | chr1 | 149871994 | + | GGTGGGAACAAGAAAACTCT |
| 397 | sgBOLA1_7 | BOLA1 | chr1 | 149871660 | - | TGCCCTGGCACAAACAAACG |
| 398 | sgBOLA1_8 | BOLA1 | chr1 | 149871717 | + | CATTCGCACGAAGTTGGAGG |
| 399 | sgBOLA1_9 | BOLA1 | chr1 | 149871614 | - | GACCAGCCGCCCACTCAGCA |
| 400 | sgBOLA1_10 | BOLA1 | chr1 | 149871687 | + | ATCCGGGGCCATCGGTCCGG |
| 401 | sgBOLA2_1 | BOLA2 | chr16 | 29465727 | + | CAAGCAGCCGGGCTTTCCAG |
| 402 | sgBOLA2_2 | BOLA2 | chr16 | 29465688 | - | GACGTACGCCTTAGTAAGGG |
| 403 | sgBOLA2_3 | BOLA2 | chr16 | 29465532 | + | CCCGCTGCAGCTTCTCGCGG |
| 404 | sgBOLA2_4 | BOLA2 | chr16 | 29465334 | + | TACCTGTGTCTCTGAAGCAG |
| 405 | sgBOLA2_5 | BOLA2 | chr16 | 29465746 | - | GCGCGAAAAGCCTGGACCGC |
| 406 | sgBOLA2_6 | BOLA2 | chr16 | 29465664 | - | AGTGAGTTTTCCAGCGGAAG |
| 407 | sgBOLA2_7 | BOLA2 | chr16 | 29465604 | + | GCAGGGACACAACCCCAGCT |
| 408 | sgBOLA2_8 | BOLA2 | chr16 | 29465637 | - | TGTAAGGCAGCAAGGTAGCG |
| 409 | sgBOLA2_9 | BOLA2 | chr16 | 29465587 | + | GCTGGAACGGCAGCCCAGCA |
| 410 | sgBOLA2_10 | BOLA2 | chr16 | 29465364 | - | GTGGTGTCGGCCAAGTTCGA |
| 411 | sgBOLA3_1 | BOLA3 | chr2 | 74372397 | + | TCTGAGTGGCAAACATCCGA |
| 412 | sgBOLA3_2 | BOLA3 | chr2 | 74374950 | - | TCTCCTCCGCGGGATCCGCG |
| 413 | sgBOLA3_3 | BOLA3 | chr2 | 74372416 | - | GGCAGCTTCCACTTCACCAT |
| 414 | sgBOLA3_4 | BOLA3 | chr2 | 74369401 | - | GCAGCACCAGATGGTTAATC |
| 415 | sgBOLA3_5 | BOLA3 | chr2 | 74362712 | - | CCCAAACGCTGACCACGCCC |
| 416 | sgBOLA3_6 | BOLA3 | chr2 | 74362697 | + | GCATCTATGCAGCCAGGGCG |
| 417 | sgBOLA3_7 | BOLA3 | chr2 | 74374986 | - | GGGCATGGCTGCATGGAGCC |
| 418 | sgBOLA3_8 | BOLA3 | chr2 | 74362662 | + | ATGTCAGTGAAGTTCATCCA |
| 419 | sgBOLA3_9 | BOLA3 | chr2 | 74362750 | - | TCAAAGAGATGCATGGATTG |
| 420 | sgBOLA3_10 | BOLA3 | chr2 | 74362682 | - | GATGCTGCTGCTTAAGACCT |
| 421 | sgBRIP1_1 | BRIP1 | chr17 | 59886095 | + | GCACCTAGAACAGTGGCCAG |
| 422 | sgBRIP1_2 | BRIP1 | chr17 | 59885954 | - | AGATTACTAGAGAGCTCCGG |
| 423 | sgBRIP1_3 | BRIP1 | chr17 | 59870961 | + | CAAAATGGGAAAAGTAGCAG |
| 424 | sgBRIP1_4 | BRIP1 | chr17 | 59853793 | - | GTGTGCCAGACTGTGAGCCA |
| 425 | sgBRIP1_5 | BRIP1 | chr17 | 59821864 | - | GTCATTGTAGAACCACAGGG |

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|---|---|---|---|---|---|---|
| 426 | sgBRIP1_6 | BRIP1 | chr17 | 59763211 | + | GAGATAATGCTACTTGGTAG |
| 427 | sgBRIP1_7 | BRIP1 | chr17 | 59885938 | - | CCGGAGGACGGCATATTCAG |
| 428 | sgBRIP1_8 | BRIP1 | chr17 | 59885872 | + | AGTTACCGACTACCTCAGGA |
| 429 | sgBRIP1_9 | BRIP1 | chr17 | 59876606 | - | AGATGAAGCTCATAACATCG |
| 430 | sgBRIP1_10 | BRIP1 | chr17 | 59858324 | - | CGATTCAACAGACTTACTCC |
| 431 | sgC16orf52_1 | C16orf52 | chr16 | 22019696 | - | GGTGTTGATCCAGTCCGGGT |
| 432 | sgC16orf52_2 | C16orf52 | chr16 | 22019666 | - | GGCGATGGCGAAGATATCGG |
| 433 | sgC16orf52_3 | C16orf52 | chr16 | 22019681 | - | CGGGTTGGCGATGCTGGCGA |
| 434 | sgC16orf52_4 | C16orf52 | chr16 | 22019639 | - | AAAGAGACATCCTGAGATGA |
| 435 | sgC16orf52_5 | C16orf52 | chr16 | 22086831 | + | CGACAGTGTCAAACAATCCA |
| 436 | sgC16orf52_6 | C16orf52 | chr16 | 22086889 | - | CAGTGTGGTGACCCACTCCG |
| 437 | sgC16orf52_7 | C16orf52 | chr16 | 22019626 | + | GATAAACTGACCATCATCTC |
| 438 | sgC16orf52_8 | C16orf52 | chr16 | 22019706 | + | GATCAACACCGGGGAGTCTG |
| 439 | sgC16orf52_9 | C16orf52 | chr16 | 22086971 | - | TTGTAGCTTCTCTTCGCCAG |
| 440 | sgC16orf52_10 | C16orf52 | chr16 | 22086800 | + | CTCCCCAGGAGCACTCACTG |
| 441 | sgCACNA1C_1 | CACNA1C | chr12 | 2622013 | + | GGGGAGATTTCCAGAAGCTG |
| 442 | sgCACNA1C_2 | CACNA1C | chr12 | 2760871 | + | GAAGCTGCTGAGCCGTGGGG |
| 443 | sgCACNA1C_3 | CACNA1C | chr12 | 2775888 | - | GTGGCGGCTGAATCCGCCGG |
| 444 | sgCACNA1C_4 | CACNA1C | chr12 | 2783800 | - | GGAGCACTCACCACCTGCAG |
| 445 | sgCACNA1C_5 | CACNA1C | chr12 | 2791788 | + | GAAGATGAACCATGACACGG |
| 446 | sgCACNA1C_6 | CACNA1C | chr12 | 2224561 | + | CCACAGTCAGCTCCACGCAG |
| 447 | sgCACNA1C_7 | CACNA1C | chr12 | 2224678 | - | GCTGATGCAGGCCCTCCGGA |
| 448 | sgCACNA1C_8 | CACNA1C | chr12 | 2558237 | - | GTAGGTTCCAGCCGTTGCGG |
| 449 | sgCACNA1C_9 | CACNA1C | chr12 | 2566770 | + | GATGGGGCAAACGCTCTCGG |
| 450 | sgCACNA1C_10 | CACNA1C | chr12 | 2566804 | + | GATTTGATGTGAAGGCGCTG |
| 451 | sgCAT_1 | CAT | chr11 | 34472622 | - | AGTGGAGAACCGAACTGCGA |
| 452 | sgCAT_2 | CAT | chr11 | 34475425 | + | GCTGGTTAATGCAAATGGGG |
| 453 | sgCAT_3 | CAT | chr11 | 34482833 | - | GATAATTGGGTCCCAGGCGA |
| 454 | sgCAT_4 | CAT | chr11 | 34460583 | + | CCAGCGACCAGATGCAGCAC |
| 455 | sgCAT_5 | CAT | chr11 | 34460596 | + | GCAGCACTGGAAGGAGCAGC |
| 456 | sgCAT_6 | CAT | chr11 | 34470745 | + | GATGTCCTGACCACTGGAGC |
| 457 | sgCAT_7 | CAT | chr11 | 34470820 | - | ACCACATCCTGAACAAGAAG |
| 458 | sgCAT_8 | CAT | chr11 | 34473644 | + | GACACAGTTCGGGACCCTCG |
| 459 | sgCAT_9 | CAT | chr11 | 34473662 | - | AATTTCACTGCAAACCCACG |
| 460 | sgCAT_10 | CAT | chr11 | 34474666 | + | AAATCCTCAGACACATCTGA |
| 461 | sgCBS_1 | CBS | chr21 | 44483110 | - | GGAGCAGACAACCTACGAGG |
| 462 | sgCBS_2 | CBS | chr21 | 44492234 | + | CCGAGTGTGGCCCTGAGCGG |
| 463 | sgCBS_3 | CBS | chr21 | 44492161 | + | GCATCGGGCCGGATCCACAG |
| 464 | sgCBS_4 | CBS | chr21 | 44492103 | + | GTGGTGATGTGGGGACTCGG |
| 465 | sgCBS_5 | CBS | chr21 | 44485341 | + | GGTGGTGTCGTAGTGAGCCA |
| 466 | sgCBS_6 | CBS | chr21 | 44485323 | + | CTGCAGGATCTCATCAGCGG |
| 467 | sgCBS_7 | CBS | chr21 | 44484084 | - | AGGGAAGCTGGACATGCTGG |
| 468 | sgCBS_8 | CBS | chr21 | 44480636 | - | TGGCAGTGCTGGCAGCACGG |
| 469 | sgCBS_9 | CBS | chr21 | 44480599 | - | GCCGCGCAGGAGCTGCAGGA |
| 470 | sgCBS_10 | CBS | chr21 | 44480573 | + | GCAGAATGACCACGCAGCGC |
| 471 | sgCD163_1 | CD163 | chr12 | 7654039 | - | GAGGAACAGACAAGGAGCTG |
| 472 | sgCD163_2 | CD163 | chr12 | 7647967 | - | CTGGAGCTAAGACTTAGAGG |
| 473 | sgCD163_3 | CD163 | chr12 | 7653984 | - | AGTGGAAGTGAAAGTCCAGG |
| 474 | sgCD163_4 | CD163 | chr12 | 7653853 | + | AATGCGTCCAGAACCTGCAC |
| 475 | sgCD163_5 | CD163 | chr12 | 7651751 | - | GAAATGAGGCTGACGCGTGG |
| 476 | sgCD163_6 | CD163 | chr12 | 7651516 | - | GGAACTGCAAACATCAAGGA |
| 477 | sgCD163_7 | CD163 | chr12 | 7647911 | - | GATTCAGAGACTGTTAGGGA |
| 478 | sgCD163_8 | CD163 | chr12 | 7647892 | - | AAGGTGTGTGACAGAGGCTG |
| 479 | sgCD163_9 | CD163 | chr12 | 7647792 | - | AAATCCAGGCAACAAACACA |
| 480 | sgCD163_10 | CD163 | chr12 | 7647729 | - | GGGACTGCAAGAACTGGCAA |
| 481 | sgCDK5RAP1_1 | CDK5RAP1 | chr20 | 31982821 | - | GCGGACCAGTAACCTCCAAG |
| 482 | sgCDK5RAP1_2 | CDK5RAP1 | chr20 | 31967269 | + | CATCAGGAAAATCCTTGGGG |
| 483 | sgCDK5RAP1_3 | CDK5RAP1 | chr20 | 31961926 | - | GTGTGTTGGAGGCCATGCGG |
| 484 | sgCDK5RAP1_4 | CDK5RAP1 | chr20 | 31954680 | + | CAACTGGGTACAGCCCACAG |
| 485 | sgCDK5RAP1_5 | CDK5RAP1 | chr20 | 31982806 | + | GAAATGCATGTACCTCTTGG |
| 486 | sgCDK5RAP1_6 | CDK5RAP1 | chr20 | 31979988 | - | TTAAAGCCTTGAAGACAAGG |

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|---|---|---|---|---|---|---|
| 487 | sgCDK5RAP1_7 | CDK5RAP1 | chr20 | 31975228 | + | TCAGCAACAGCCAGCAGCCG |
| 488 | sgCDK5RAP1_8 | CDK5RAP1 | chr20 | 31967440 | - | TAGTTTTCGGGACAATTCGG |
| 489 | sgCDK5RAP1_9 | CDK5RAP1 | chr20 | 31967400 | - | GTGCCTACCAATCTCAGTCG |
| 490 | sgCDK5RAP1_10 | CDK5RAP1 | chr20 | 31954696 | - | AAAGCCAATCAGACCTCTGT |
| 491 | sgCDKAL1_1 | CDKAL1 | chr6 | 20739762 | + | GGAGAACAAGAAAATCGTAC |
| 492 | sgCDKAL1_2 | CDKAL1 | chr6 | 20758840 | + | TCGTGTGGTAGAAGTTGTGG |
| 493 | sgCDKAL1_3 | CDKAL1 | chr6 | 20955666 | + | ATGGTTGACCAGTGAAGACA |
| 494 | sgCDKAL1_4 | CDKAL1 | chr6 | 21000565 | + | GGCTGACTTCAAAAGAGTAG |
| 495 | sgCDKAL1_5 | CDKAL1 | chr6 | 21065438 | + | GGAACAAGTTCCAGCACAAG |
| 496 | sgCDKAL1_6 | CDKAL1 | chr6 | 21065451 | - | AAAGATCTTACCACTTGTGC |
| 497 | sgCDKAL1_7 | CDKAL1 | chr6 | 20546679 | + | ATGTTGTCCCGAAGGTACGA |
| 498 | sgCDKAL1_8 | CDKAL1 | chr6 | 20846328 | + | TGCAAAACTAAACACGCCAG |
| 499 | sgCDKAL1_9 | CDKAL1 | chr6 | 21000484 | - | GCAGAAAAGCGTAGACTCTG |
| 500 | sgCDKAL1_10 | CDKAL1 | chr6 | 21201460 | + | CATCAGCAAACCGCTAGCAA |
| 501 | sgCH25H_1 | CH25H | chr10 | 90966867 | + | CAGGATATCCAGGACCACGA |
| 502 | sgCH25H_2 | CH25H | chr10 | 90966809 | + | CGGATGGCGAGAAGTCAGGG |
| 503 | sgCH25H_3 | CH25H | chr10 | 90966995 | + | ACAGCTGCCCGGAGCTGCAA |
| 504 | sgCH25H_4 | CH25H | chr10 | 90966959 | - | GGACCACCTGAGGAGCTGGG |
| 505 | sgCH25H_5 | CH25H | chr10 | 90966918 | + | GGAGAAGATGACCGGGAAGA |
| 506 | sgCH25H_6 | CH25H | chr10 | 90966749 | + | GGAACACAAACATCACATGC |
| 507 | sgCH25H_7 | CH25H | chr10 | 90966650 | + | GTAGCAGGCAGAACAGGATG |
| 508 | sgCH25H_8 | CH25H | chr10 | 90966569 | + | GGTGCACCTTGTGGAAGGTG |
| 509 | sgCH25H_9 | CH25H | chr10 | 90966545 | - | GAACTCGTCCTCGTTCGCGC |
| 510 | sgCH25H_10 | CH25H | chr10 | 90966432 | + | GACCACGTGGAAGGTCAGGG |
| 511 | sgCIAPIN1_1 | CIAPIN1 | chr16 | 57468082 | + | GAACAGACTGTACTTCCTCA |
| 512 | sgCIAPIN1_2 | CIAPIN1 | chr16 | 57466461 | - | GGACTCAGTGAAACCTGCTG |
| 513 | sgCIAPIN1_3 | CIAPIN1 | chr16 | 57474699 | + | TGATGTTTTCCACAGACACG |
| 514 | sgCIAPIN1_4 | CIAPIN1 | chr16 | 57466445 | + | GCAGCAGCAGGGTCCACAGC |
| 515 | sgCIAPIN1_5 | CIAPIN1 | chr16 | 57465113 | - | AGCCAGATCCAGCTTCCCTG |
| 516 | sgCIAPIN1_6 | CIAPIN1 | chr16 | 57465065 | - | AGAGGAAGGCCTGTAAGAAC |
| 517 | sgCIAPIN1_7 | CIAPIN1 | chr16 | 57473096 | - | GAGCCAGTAGAGACAGCTGT |
| 518 | sgCIAPIN1_8 | CIAPIN1 | chr16 | 57468119 | - | GTCTTGAATTCTAGCTGCAG |
| 519 | sgCIAPIN1_9 | CIAPIN1 | chr16 | 57468000 | + | GAAGAACCCACTTCAAAGTT |
| 520 | sgCIAPIN1_10 | CIAPIN1 | chr16 | 57470570 | - | TGGTCTTGTGGAAGTGAAAG |
| 521 | sgCISD1_1 | CISD1 | chr10 | 60036888 | + | GCAGCAGTTACCATTGCTGC |
| 522 | sgCISD1_2 | CISD1 | chr10 | 60029043 | + | ACTTCCAGTTCCAGCGTACG |
| 523 | sgCISD1_3 | CISD1 | chr10 | 60029056 | - | CCCCACTTCACCTCGTACGC |
| 524 | sgCISD1_4 | CISD1 | chr10 | 60037051 | + | CTGTGTACTGCCGTTGTTGG |
| 525 | sgCISD1_5 | CISD1 | chr10 | 60047357 | + | GAAGAGACTGGAGACAATGT |
| 526 | sgCISD1_6 | CISD1 | chr10 | 60047317 | + | CTAGTTCCCATTCTGTGATG |
| 527 | sgCISD1_7 | CISD1 | chr10 | 60047327 | - | GTGTGAGCCCCATCACAGAA |
| 528 | sgCISD1_8 | CISD1 | chr10 | 60036901 | - | TGCAGCTGTCCCAGCAGCAA |
| 529 | sgCISD1_9 | CISD1 | chr10 | 60036986 | - | GGTTGTCTTTCTGGATGTGA |
| 530 | sgCISD1_10 | CISD1 | chr10 | 60037013 | + | AGTACATGCTTTTGACATGG |
| 531 | sgCISD2_1 | CISD2 | chr4 | 103806399 | - | AGTGCGAGTACACCAAGGAA |
| 532 | sgCISD2_2 | CISD2 | chr4 | 103790229 | + | GCCGCTGGCCAGGATGGTGC |
| 533 | sgCISD2_3 | CISD2 | chr4 | 103790253 | + | GAGCGTGGCCCGTATCGTGA |
| 534 | sgCISD2_4 | CISD2 | chr4 | 103790265 | - | GGAGCTGCACCTTCACGATA |
| 535 | sgCISD2_5 | CISD2 | chr4 | 103790286 | - | GGAGCCGCTTCAGATATGCA |
| 536 | sgCISD2_6 | CISD2 | chr4 | 103806449 | + | CCCGAAGAAGAAACAACAGA |
| 537 | sgCISD2_7 | CISD2 | chr4 | 103806431 | - | GGAGGAATGGACGAACTGCA |
| 538 | sgCISD2_8 | CISD2 | chr4 | 103806553 | + | AAGCAGCTTATTGTAGGTGT |
| 539 | sgCISD2_9 | CISD2 | chr4 | 103808492 | + | TTTTAGTTTCCTGCCTGCGA |
| 540 | sgCISD2_10 | CISD2 | chr4 | 103808504 | - | TTATGTGAACCATCGCAGGC |
| 541 | sgCISD3_1 | CISD3 | chr17 | 36887025 | - | CAGGAGGAGATGTCCCGCCG |
| 542 | sgCISD3_2 | CISD3 | chr17 | 36887643 | + | TGGCAGGGAAAACCTACAGG |
| 543 | sgCISD3_3 | CISD3 | chr17 | 36887008 | + | TGCAGGACCTGAACCCGCGG |
| 544 | sgCISD3_4 | CISD3 | chr17 | 36887658 | - | GCCACACACACACCACCTGT |
| 545 | sgCISD3_5 | CISD3 | chr17 | 36887590 | + | AACCCCAGCCAGGTCCGTGG |
| 546 | sgCISD3_6 | CISD3 | chr17 | 36887580 | + | GGTTCCCTAGAACCCCAGCC |
| 547 | sgCISD3_7 | CISD3 | chr17 | 36887626 | - | CCACCAGCTCCACCTTGATG |

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|---|---|---|---|---|---|---|
| 548 | sgCISD3_8 | CISD3 | chr17 | 36887671 | + | GTGTGGCCGCAGCAAGAAGC |
| 549 | sgCISD3_9 | CISD3 | chr17 | 36887559 | + | TTCCCTGGCCACAGGCCCAG |
| 550 | sgCISD3_10 | CISD3 | chr17 | 36887601 | - | CTTCAGGGCCACCACGGACC |
| 551 | sgCOPA_1 | COPA | chr1 | 160283905 | - | GTCCTTCAGAATCAAAGGCA |
| 552 | sgCOPA_2 | COPA | chr1 | 160278904 | + | GGAGTCAGCATCTTTAGGGA |
| 553 | sgCOPA_3 | COPA | chr1 | 160268941 | + | GGATCAATGGTGAGTACCCG |
| 554 | sgCOPA_4 | COPA | chr1 | 160265859 | - | GGAGACATTTGACCCAGAGA |
| 555 | sgCOPA_5 | COPA | chr1 | 160263219 | - | GCAGCTGGTGGGGCTGAAGA |
| 556 | sgCOPA_6 | COPA | chr1 | 160261954 | - | GAAGAATGGTGTACCAGCTG |
| 557 | sgCOPA_7 | COPA | chr1 | 160261831 | + | CAAGAAGTGGCACACTGAGA |
| 558 | sgCOPA_8 | COPA | chr1 | 160303425 | + | TCGGATGGTCTGATCATCGG |
| 559 | sgCOPA_9 | COPA | chr1 | 160295353 | - | ATTTGGAACTACAGATGCAG |
| 560 | sgCOPA_10 | COPA | chr1 | 160283885 | - | TGGGAGGTTGATACCTGCCG |
| 561 | sgCOQ7_1 | COQ7 | chr16 | 19087047 | + | GGGGACCGCCTTGCTCGGGA |
| 562 | sgCOQ7_2 | COQ7 | chr16 | 19087131 | + | GATCAGGACGCTGATGGAGG |
| 563 | sgCOQ7_3 | COQ7 | chr16 | 19083393 | + | GTCCTGGGTCGGACCAGCGT |
| 564 | sgCOQ7_4 | COQ7 | chr16 | 19085335 | + | GAACGTGCTGGGGTTTGCAC |
| 565 | sgCOQ7_5 | COQ7 | chr16 | 19087059 | + | GCTCGGGAAGGAAGGTGCCA |
| 566 | sgCOQ7_6 | COQ7 | chr16 | 19083371 | - | CCATCTGCCCGGCATAGATG |
| 567 | sgCOQ7_7 | COQ7 | chr16 | 19087071 | + | AGGTGCCATGGCCTGCACCG |
| 568 | sgCOQ7_8 | COQ7 | chr16 | 19083320 | + | TGTGGATCGAATAATCCGGG |
| 569 | sgCOQ7_9 | COQ7 | chr16 | 19085323 | + | GATGCCCTTGTGGAACGTGC |
| 570 | sgCOQ7_10 | COQ7 | chr16 | 19088652 | + | GAGCTTGAGCACCATGACAT |
| 571 | sgCOX15_1 | COX15 | chr10 | 101489383 | + | GCTCAGCAGCCTTTGAGGGA |
| 572 | sgCOX15_2 | COX15 | chr10 | 101486844 | - | GGAGTACTCACACCGAATGT |
| 573 | sgCOX15_3 | COX15 | chr10 | 101483795 | + | AGGCGGTACTGACTGACCCG |
| 574 | sgCOX15_4 | COX15 | chr10 | 101478183 | - | GGGAGAATCCTGGATCCCGG |
| 575 | sgCOX15_5 | COX15 | chr10 | 101478109 | + | CCGGTGATCAAACTGCACCA |
| 576 | sgCOX15_6 | COX15 | chr10 | 101489442 | + | GAGATGGTGCTGTATTGCCC |
| 577 | sgCOX15_7 | COX15 | chr10 | 101486774 | - | AGAAAGGGCTGGCTCAGCCG |
| 578 | sgCOX15_8 | COX15 | chr10 | 101483766 | + | GAACCAGGGCTGATCCCAGG |
| 579 | sgCOX15_9 | COX15 | chr10 | 101483752 | + | GCTGGCACAATAAAGAACCA |
| 580 | sgCOX15_10 | COX15 | chr10 | 101483702 | + | ACAACTCTTACCTTGTGCGG |
| 581 | sgCOX5A_1 | COX5A | chr15 | 75230316 | + | TTGCGGCCACAGCGCAGCGG |
| 582 | sgCOX5A_2 | COX5A | chr15 | 75230244 | + | CAGGGGCCTTACCCACGGCG |
| 583 | sgCOX5A_3 | COX5A | chr15 | 75230284 | + | GTGCAGGAGGCCTCGAGGGT |
| 584 | sgCOX5A_4 | COX5A | chr15 | 75219188 | + | GGGCTCTGGAACCATATCAT |
| 585 | sgCOX5A_5 | COX5A | chr15 | 75219118 | - | TAGTACAGTTCGTATCCTAG |
| 586 | sgCOX5A_6 | COX5A | chr15 | 75230299 | + | AGGGTCGGCCCGGGTGGTTG |
| 587 | sgCOX5A_7 | COX5A | chr15 | 75221509 | - | ATGAGGAGTTTGATGCTCGC |
| 588 | sgCOX5A_8 | COX5A | chr15 | 75219100 | + | CACTGACCTTAACAACCTCT |
| 589 | sgCOX5A_9 | COX5A | chr15 | 75221452 | + | ATTACCTTTACGCAATTCCC |
| 590 | sgCOX5A_10 | COX5A | chr15 | 75221472 | - | CAAGCCAGATATAGATGCCT |
| 591 | sgCYB561_1 | CYB561 | chr17 | 61514795 | + | GTACAGCCCGAGCCACGCGC |
| 592 | sgCYB561_2 | CYB561 | chr17 | 61512516 | + | GCACCAAAGAAGATGTGCTG |
| 593 | sgCYB561_3 | CYB561 | chr17 | 61512484 | + | GGGCGGTGCCCACGGAAAGG |
| 594 | sgCYB561_4 | CYB561 | chr17 | 61513455 | - | GCACCACCAAGGTCCTGCAC |
| 595 | sgCYB561_5 | CYB561 | chr17 | 61513054 | + | CAAAGTACAGGACAAAGACA |
| 596 | sgCYB561_6 | CYB561 | chr17 | 61512553 | + | GCAGGGAGAATGAAGCTCCG |
| 597 | sgCYB561_7 | CYB561 | chr17 | 61514858 | + | CACGTAGTAAGGCAGTGCTG |
| 598 | sgCYB561_8 | CYB561 | chr17 | 61514827 | - | GCTGCTGGGCCTGACCTTGG |
| 599 | sgCYB561_9 | CYB561 | chr17 | 61514779 | - | GTACCGAGGCGGCATTGCCT |
| 600 | sgCYB561_10 | CYB561 | chr17 | 61514901 | - | GTTTGCCTCAGCATGGAGGG |
| 601 | sgCYB561A3_1 | CYB561A3 | chr11 | 61120584 | + | GGAGGAAGACAGCAAAGCCC |
| 602 | sgCYB561A3_2 | CYB561A3 | chr11 | 61124119 | + | AGAGGATGCACATAGAGCCC |
| 603 | sgCYB561A3_3 | CYB561A3 | chr11 | 61121415 | - | GGGTGGGGCCCAAACTGCCC |
| 604 | sgCYB561A3_4 | CYB561A3 | chr11 | 61121259 | + | GCAGGCGAAGAGGAAGACAG |
| 605 | sgCYB561A3_5 | CYB561A3 | chr11 | 61118560 | - | GCGGTCTTTGCCAACAGCAC |
| 606 | sgCYB561A3_6 | CYB561A3 | chr11 | 61124101 | + | GCATCCAGTAGATAGTGAAG |
| 607 | sgCYB561A3_7 | CYB561A3 | chr11 | 61124088 | - | TGGATGCAGTACTGGCGTGG |
| 608 | sgCYB561A3_8 | CYB561A3 | chr11 | 61120501 | + | GATGGACAGAGAGAGGATGG |

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|---|---|---|---|---|---|---|
| 609 | sgCYB561A3_9 | CYB561A3 | chr11 | 61120483 | + | GCCCGAAATGACGGATGCGA |
| 610 | sgCYB561A3_10 | CYB561A3 | chr11 | 61118549 | - | CAACAGCACCGGGATGCTGG |
| 611 | sgCYB561D1_1 | CYB561D1 | chr1 | 110036771 | - | GGAACCAGACCTACCTCCAG |
| 612 | sgCYB561D1_2 | CYB561D1 | chr1 | 110036755 | + | CACGGCCATGCAGCCCCTGG |
| 613 | sgCYB561D1_3 | CYB561D1 | chr1 | 110038386 | - | GGATGGCTTCAGCCATGCAG |
| 614 | sgCYB561D1_4 | CYB561D1 | chr1 | 110036802 | + | GGGAGCCGAGACTGACCCGC |
| 615 | sgCYB561D1_5 | CYB561D1 | chr1 | 110036877 | - | GGACAGCGCTGTCAGAAAGA |
| 616 | sgCYB561D1_6 | CYB561D1 | chr1 | 110036782 | + | TCTGGTTCCCGCTCCAGCTG |
| 617 | sgCYB561D1_7 | CYB561D1 | chr1 | 110036813 | + | CTGACCCGCTGGCTGCGGAG |
| 618 | sgCYB561D1_8 | CYB561D1 | chr1 | 110038407 | - | AGTGTTCAGGTGAGAAGAGT |
| 619 | sgCYB561D1_9 | CYB561D1 | chr1 | 110038430 | - | TCGGGAGCAGAAGAAGAACA |
| 620 | sgCYB561D1_10 | CYB561D1 | chr1 | 110038457 | + | GGATCCGGCTCCACTGGGCA |
| 621 | sgCYB561D2_1 | CYB561D2 | chr3 | 50389460 | - | ACAGCCAAAGACATAAGCAC |
| 622 | sgCYB561D2_2 | CYB561D2 | chr3 | 50388959 | - | GGCAAGCACAGCCACAAAGA |
| 623 | sgCYB561D2_3 | CYB561D2 | chr3 | 50388936 | - | TAAAGCCCAGGGCCACAAGG |
| 624 | sgCYB561D2_4 | CYB561D2 | chr3 | 50388947 | - | CACAAAGATGGTAAAGCCCA |
| 625 | sgCYB561D2_5 | CYB561D2 | chr3 | 50388903 | - | CAGAAGCAGTACGCAGAGCT |
| 626 | sgCYB561D2_6 | CYB561D2 | chr3 | 50389444 | - | GCACCGGGTGCCAGGAGAAC |
| 627 | sgCYB561D2_7 | CYB561D2 | chr3 | 50388858 | + | GCTGACGATGGCCCTTTCTG |
| 628 | sgCYB561D2_8 | CYB561D2 | chr3 | 50388873 | - | GTGACTCGGTCTCCGCAGAA |
| 629 | sgCYB561D2_9 | CYB561D2 | chr3 | 50388985 | - | GAATTCTACTTACTGGAGCC |
| 630 | sgCYB561D2_10 | CYB561D2 | chr3 | 50390764 | - | CCAGCAGCTGCAGCACCCAG |
| 631 | sgCYB5A_1 | CYB5A | chr18 | 71959092 | - | GATGGCAGAGCAGTCGGACG |
| 632 | sgCYB5A_2 | CYB5A | chr18 | 71930705 | - | TCCTTTGAACAGCATCCTGG |
| 633 | sgCYB5A_3 | CYB5A | chr18 | 71930625 | - | CGGGCACTCTACAGATGCCA |
| 634 | sgCYB5A_4 | CYB5A | chr18 | 71930605 | + | GAATGTTTTGGACATTTCCC |
| 635 | sgCYB5A_5 | CYB5A | chr18 | 71959033 | - | ACAACCACAGCAAGAGCACC |
| 636 | sgCYB5A_6 | CYB5A | chr18 | 71959014 | - | CTGGCTGATCCTGCACCACA |
| 637 | sgCYB5A_7 | CYB5A | chr18 | 71928152 | - | ACCAAAGTTAAACAAGCCTC |
| 638 | sgCYB5A_8 | CYB5A | chr18 | 71920863 | - | GATCCCTGCCATCTCTGCAG |
| 639 | sgCYB5A_9 | CYB5A | chr18 | 71920837 | + | TAGGCGATACATCAAGGCGA |
| 640 | sgCYB5A_10 | CYB5A | chr18 | 71920827 | - | GTATCGCCTATACATGGCAG |
| 641 | sgCYB5B_1 | CYB5B | chr16 | 69458608 | + | GCGGAAGCTAGCGGCAGCGA |
| 642 | sgCYB5B_2 | CYB5B | chr16 | 69458690 | + | GCAACTCCTTGAAGGAACTG |
| 643 | sgCYB5B_3 | CYB5B | chr16 | 69481049 | + | GTAGCACCCTGGAGGAGAAG |
| 644 | sgCYB5B_4 | CYB5B | chr16 | 69482018 | + | AGTGACCTTAAACCTGAAAG |
| 645 | sgCYB5B_5 | CYB5B | chr16 | 69458654 | - | CAACCGGTAATAGGTGACTG |
| 646 | sgCYB5B_6 | CYB5B | chr16 | 69458724 | - | TGACATCGTAGACTCGCCCA |
| 647 | sgCYB5B_7 | CYB5B | chr16 | 69458739 | + | TGTCACCCGCTTCCTCAACG |
| 648 | sgCYB5B_8 | CYB5B | chr16 | 69458754 | - | TCCCAGGCCCCACCTCGTTG |
| 649 | sgCYB5B_9 | CYB5B | chr16 | 69458704 | + | GAACTGTGGCTTGTGATCCA |
| 650 | sgCYB5B_10 | CYB5B | chr16 | 69458589 | + | GTCCGGTTCAATGGCGACTG |
| 651 | sgCYB5D1_1 | CYB5D1 | chr17 | 7761497 | + | TCAGCGTCGCTATTTCACGC |
| 652 | sgCYB5D1_2 | CYB5D1 | chr17 | 7762049 | + | GCAGGGGTCGTATTATGAGG |
| 653 | sgCYB5D1_3 | CYB5D1 | chr17 | 7762121 | + | GTCGCAGGAGCACACACTGG |
| 654 | sgCYB5D1_4 | CYB5D1 | chr17 | 7761442 | + | GAGCAAGAGCCATGCCGCGC |
| 655 | sgCYB5D1_5 | CYB5D1 | chr17 | 7761554 | - | GTCCCAGGTAAGATACCCAG |
| 656 | sgCYB5D1_6 | CYB5D1 | chr17 | 7761773 | - | TGGTCTTTGGATCAAACCAG |
| 657 | sgCYB5D1_7 | CYB5D1 | chr17 | 7761956 | + | CCTGAGGTACTGCACCCCGC |
| 658 | sgCYB5D1_8 | CYB5D1 | chr17 | 7761983 | - | GAGGCGGAACGTGCACAAAG |
| 659 | sgCYB5D1_9 | CYB5D1 | chr17 | 7761591 | + | TCATTGGCACAGGAATACAA |
| 660 | sgCYB5D1_10 | CYB5D1 | chr17 | 7761725 | + | CCTGCTGCTGAAACCCATCG |
| 661 | sgCYB5D2_1 | CYB5D2 | chr17 | 4058010 | - | TACCTGGGTCAGTGCCGGGG |
| 662 | sgCYB5D2_2 | CYB5D2 | chr17 | 4058027 | + | GTAGAAGCTGCGATCACCAG |
| 663 | sgCYB5D2_3 | CYB5D2 | chr17 | 4058105 | + | GCGGAGTGGAGCTCAGCCAG |
| 664 | sgCYB5D2_4 | CYB5D2 | chr17 | 4057975 | + | GACAGGACGGTTCTACGGAG |
| 665 | sgCYB5D2_5 | CYB5D2 | chr17 | 4057962 | + | TCACAGGGAGGGTGACAGGA |
| 666 | sgCYB5D2_6 | CYB5D2 | chr17 | 4057993 | + | AGAGGATGGGCTGCCCACCC |
| 667 | sgCYB5D2_7 | CYB5D2 | chr17 | 4058086 | + | GACATTCCCGCCGTGCAACG |
| 668 | sgCYB5D2_8 | CYB5D2 | chr17 | 4058133 | + | GGCTCTGGTGCTCCCAGAAG |
| 669 | sgCYB5D2_9 | CYB5D2 | chr17 | 4060344 | - | GAGCATGTGATGGCTAGCGG |

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|---|---|---|---|---|---|---|
| 670 | sgCYB5D2_10 | CYB5D2 | chr17 | 4060229 | - | TGGTTCTCACACACACGCAG |
| 671 | sgCYB5R4_1 | CYB5R4 | chr6 | 84569517 | - | GGGGCCGGGAAAGACTGGGA |
| 672 | sgCYB5R4_2 | CYB5R4 | chr6 | 84665042 | + | GCACCTATTTCTGAATGGAA |
| 673 | sgCYB5R4_3 | CYB5R4 | chr6 | 84644419 | - | GAGGTAAACATGTTGCCCAA |
| 674 | sgCYB5R4_4 | CYB5R4 | chr6 | 84569543 | + | GCAGCAGCGTGTCGCCTCCG |
| 675 | sgCYB5R4_5 | CYB5R4 | chr6 | 84603264 | + | TATATGGAGTATCATCCTGG |
| 676 | sgCYB5R4_6 | CYB5R4 | chr6 | 84618755 | + | ATGCTGAAAGAATGCCTGGT |
| 677 | sgCYB5R4_7 | CYB5R4 | chr6 | 84624127 | + | CTATACAGACTATCGTGAGG |
| 678 | sgCYB5R4_8 | CYB5R4 | chr6 | 84627763 | + | AAGAAGGTCCTAGTTATCCA |
| 679 | sgCYB5R4_9 | CYB5R4 | chr6 | 84649783 | + | GTTTCTGTAAGCAGTCCTGA |
| 680 | sgCYB5R4_10 | CYB5R4 | chr6 | 84649860 | + | TGGAACAGGCTTCACACCAA |
| 681 | sgCYBA_1 | CYBA | chr16 | 88714440 | + | GGTGGAAGGATACATGGAGT |
| 682 | sgCYBA_2 | CYBA | chr16 | 88713204 | + | GGGCCCGAACAGCTTCACCA |
| 683 | sgCYBA_3 | CYBA | chr16 | 88712572 | + | GGTGGCCAGCAGGAAGCCGG |
| 684 | sgCYBA_4 | CYBA | chr16 | 88712554 | + | GCAGGCGGTCCCAAGGATGG |
| 685 | sgCYBA_5 | CYBA | chr16 | 88717379 | - | GTGGGCCAACGAACAGGCGC |
| 686 | sgCYBA_6 | CYBA | chr16 | 88714458 | + | GTAGGCACCAAAGTACCACT |
| 687 | sgCYBA_7 | CYBA | chr16 | 88713519 | - | GAGGAAGAAGGGCTCCACCA |
| 688 | sgCYBA_8 | CYBA | chr16 | 88713224 | - | ACAGAAGTACATGACCGCCG |
| 689 | sgCYBA_9 | CYBA | chr16 | 88714476 | - | CAGCTGGGCGCTTCACCCAG |
| 690 | sgCYBA_10 | CYBA | chr16 | 88713499 | + | GGAGACTCACCAGCGCTCCA |
| 691 | sgCYBB_1 | CYBB | chrX | 37663174 | + | GAAGGGGTTCAAAATGGAAG |
| 692 | sgCYBB_2 | CYBB | chrX | 37655295 | + | CCTCCACCAAAACCATCCGG |
| 693 | sgCYBB_3 | CYBB | chrX | 37658313 | - | GAGGGTTTCCAGCAAACTGA |
| 694 | sgCYBB_4 | CYBB | chrX | 37664295 | + | AGATGTGTTCAGCTATGAGG |
| 695 | sgCYBB_5 | CYBB | chrX | 37664354 | - | TGACTTGAGAATGGATGCGA |
| 696 | sgCYBB_6 | CYBB | chrX | 37639334 | + | GGGAACTGGGCTGTGAATGA |
| 697 | sgCYBB_7 | CYBB | chrX | 37660568 | + | TTGGCGATCTCAACAGAAGG |
| 698 | sgCYBB_8 | CYBB | chrX | 37660580 | + | ACAGAAGGTGGTCATCACCA |
| 699 | sgCYBB_9 | CYBB | chrX | 37663156 | + | CGAGCTACAGATGAAGAAGA |
| 700 | sgCYBB_10 | CYBB | chrX | 37663319 | + | GAGGGGCTGTTCAATGCTTG |
| 701 | sgCYBRD1_1 | CYBRD1 | chr2 | 172409909 | - | GTATGGGCATGAGAAATGCT |
| 702 | sgCYBRD1_2 | CYBRD1 | chr2 | 172409889 | - | CGGAGAGAAAGCGGAGCCCA |
| 703 | sgCYBRD1_3 | CYBRD1 | chr2 | 172409960 | + | AGTGATTGCAACAGCACTTA |
| 704 | sgCYBRD1_4 | CYBRD1 | chr2 | 172411126 | + | GGATAGTCACCAGACCGCAA |
| 705 | sgCYBRD1_5 | CYBRD1 | chr2 | 172411062 | - | TTTACGAAAACACCTTCTGG |
| 706 | sgCYBRD1_6 | CYBRD1 | chr2 | 172411044 | - | GGCGGGAATGTACTGTATGC |
| 707 | sgCYBRD1_7 | CYBRD1 | chr2 | 172411103 | - | AAATGAGGGCCCCGAACACC |
| 708 | sgCYBRD1_8 | CYBRD1 | chr2 | 172411139 | + | ACCGCAATGGAAACGTCCTA |
| 709 | sgCYBRD1_9 | CYBRD1 | chr2 | 172379138 | - | GTAGTGGAGGACCCAGACGA |
| 710 | sgCYBRD1_10 | CYBRD1 | chr2 | 172398098 | + | TCATCGTCTACAGACTGCCG |
| 711 | sgCYC1_1 | CYC1 | chr8 | 145150751 | + | TCGAAGTCTGGCCTTTCCCG |
| 712 | sgCYC1_2 | CYC1 | chr8 | 145150882 | - | GGTGAGACCACGGATAGCTG |
| 713 | sgCYC1_3 | CYC1 | chr8 | 145151105 | + | GGTGGGCGTGTGCTACACGG |
| 714 | sgCYC1_4 | CYC1 | chr8 | 145150909 | - | TGTGGTCCAAGGAAGAGAGG |
| 715 | sgCYC1_5 | CYC1 | chr8 | 145151068 | - | GAAGTCCATGCTGTGGCAGG |
| 716 | sgCYC1_6 | CYC1 | chr8 | 145151251 | + | AGACGGCCCCAATGAAGATG |
| 717 | sgCYC1_7 | CYC1 | chr8 | 145151473 | + | GGATCTGGTCCTAGGCATGG |
| 718 | sgCYC1_8 | CYC1 | chr8 | 145151526 | + | CTACTGCGAGCCACCCACCG |
| 719 | sgCYC1_9 | CYC1 | chr8 | 145151543 | - | TTCCCGCAGTGACACCCCGG |
| 720 | sgCYC1_10 | CYC1 | chr8 | 145151612 | - | GACATCTGTGTAGATGGGAG |
| 721 | sgCYCS_1 | CYCS | chr7 | 25163454 | - | TTTAGGCATCATCTGGGGAG |
| 722 | sgCYCS_2 | CYCS | chr7 | 25163459 | - | TCTTGTTTAGGCATCATCTG |
| 723 | sgCYCS_3 | CYCS | chr7 | 25163572 | - | ACAGCCGCCAATAAGAACAA |
| 724 | sgCYCS_4 | CYCS | chr7 | 25163618 | + | TCTTCCGCCCAAAGAGACCA |
| 725 | sgCYCS_5 | CYCS | chr7 | 25163586 | + | GGCTGTGTAAGAGTATCCAG |
| 726 | sgCYCS_6 | CYCS | chr7 | 25163658 | + | GTGCTTGCCTCCCTTTTCAA |
| 727 | sgCYCS_7 | CYCS | chr7 | 25163605 | - | CGGAAGACAGGTCAGGCCCC |
| 728 | sgCYCS_8 | CYCS | chr7 | 25163668 | - | TGCCACACCGTTGAAAAGGG |
| 729 | sgCYCS_9 | CYCS | chr7 | 25163663 | + | TGCCTCCCTTTTCAACGGTG |
| 730 | sgCYCS_10 | CYCS | chr7 | 25163638 | - | AAGACTGGGCCAAATCTCCA |

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|---|---|---|---|---|---|---|
| 731 | sgCYGB_1 | CYGB | chr17 | 74533589 | - | GCGAGATGGAGATCGAGCGC |
| 732 | sgCYGB_2 | CYGB | chr17 | 74527601 | + | GCACAGAGGACACCTTGTCG |
| 733 | sgCYGB_3 | CYGB | chr17 | 74533603 | - | GGAGAAAGTGCCAGGCGAGA |
| 734 | sgCYGB_4 | CYGB | chr17 | 74533561 | - | GAGCGAGGAGCTGTCCGAGG |
| 735 | sgCYGB_5 | CYGB | chr17 | 74527734 | + | GCTGAAGTACTGCTTGGCCG |
| 736 | sgCYGB_6 | CYGB | chr17 | 74527718 | - | CAGCCAGTTCAAGCACATGG |
| 737 | sgCYGB_7 | CYGB | chr17 | 74527690 | + | GGGCTCCGCTCCATCTCCAG |
| 738 | sgCYGB_8 | CYGB | chr17 | 74527562 | - | CCACGCCCTCAAGCACAAGG |
| 739 | sgCYGB_9 | CYGB | chr17 | 74527129 | + | GAGGCCACGCAGCTTGGCCC |
| 740 | sgCYGB_10 | CYGB | chr17 | 74533549 | - | GTCCGAGGCGGAGAGGAAGG |
| 741 | sgCYP11A1_1 | CYP11A1 | chr15 | 74637483 | + | CGAGACACTGCATCCAACAG |
| 742 | sgCYP11A1_2 | CYP11A1 | chr15 | 74636292 | - | GGAGCGCCAGGGGATGCTGG |
| 743 | sgCYP11A1_3 | CYP11A1 | chr15 | 74636274 | - | GGAGGAAGTAGTGAACCCCG |
| 744 | sgCYP11A1_4 | CYP11A1 | chr15 | 74635392 | + | GGAGTCTGTAGAGGATGCCA |
| 745 | sgCYP11A1_5 | CYP11A1 | chr15 | 74632022 | - | GCAGGATATGCTGCGGGCAG |
| 746 | sgCYP11A1_6 | CYP11A1 | chr15 | 74631029 | - | AAAATTTTGACCCAACCCGA |
| 747 | sgCYP11A1_7 | CYP11A1 | chr15 | 74630954 | - | GTGTGCGGCAGTGTCTGGGA |
| 748 | sgCYP11A1_8 | CYP11A1 | chr15 | 74637445 | - | GCACAGGCGCATCAAGAAGG |
| 749 | sgCYP11A1_9 | CYP11A1 | chr15 | 74637425 | - | CGGGCTCCGGAAATTACTCG |
| 750 | sgCYP11A1_10 | CYP11A1 | chr15 | 74636173 | - | GTCTGTTCAGGACCAAGACC |
| 751 | sgCYP11B1_1 | CYP11B1 | chr8 | 143958560 | + | GAGGAACCTCTGCACAGCGT |
| 752 | sgCYP11B1_2 | CYP11B1 | chr8 | 143957740 | - | ACAGTACACCAGCATCGTGG |
| 753 | sgCYP11B1_3 | CYP11B1 | chr8 | 143961142 | - | ACTGGGCACGAGAGCCGCCC |
| 754 | sgCYP11B1_4 | CYP11B1 | chr8 | 143961086 | - | CCCGGCGTCCAGGCAACAGG |
| 755 | sgCYP11B1_5 | CYP11B1 | chr8 | 143960498 | + | GGGCTCCAGGCTCATCCTGT |
| 756 | sgCYP11B1_6 | CYP11B1 | chr8 | 143957228 | + | GCAGGGCCTGCTGCACGTTG |
| 757 | sgCYP11B1_7 | CYP11B1 | chr8 | 143961115 | + | CAAAGGGCAGCACTGTCCTG |
| 758 | sgCYP11B1_8 | CYP11B1 | chr8 | 143960996 | + | AATGGGCCCTAGTTCCTGGA |
| 759 | sgCYP11B1_9 | CYP11B1 | chr8 | 143960554 | - | TGTGATGCTGCCGGAGGACG |
| 760 | sgCYP11B1_10 | CYP11B1 | chr8 | 143957698 | - | ACTGTCGCCAGATGCCATCA |
| 761 | sgCYP11B2_1 | CYP11B2 | chr8 | 143994801 | + | GCAGGATCTGCTGCACGTCG |
| 762 | sgCYP11B2_2 | CYP11B2 | chr8 | 143994090 | - | GCAATGCCGCCTTGTTCCCG |
| 763 | sgCYP11B2_3 | CYP11B2 | chr8 | 143993988 | - | GCATGCGCCAGTGCCTCGGG |
| 764 | sgCYP11B2_4 | CYP11B2 | chr8 | 143999194 | - | GGCTGTCCCTGCAAAGGGCA |
| 765 | sgCYP11B2_5 | CYP11B2 | chr8 | 143999143 | + | AAACGGCAGCACCGTCCTAG |
| 766 | sgCYP11B2_6 | CYP11B2 | chr8 | 143999032 | - | ACCAGACCTTCCAGGAGCTG |
| 767 | sgCYP11B2_7 | CYP11B2 | chr8 | 143995763 | - | ACACTACACAGGCATCGTGG |
| 768 | sgCYP11B2_8 | CYP11B2 | chr8 | 143995745 | - | GGCGGAGCTCCTGTTGAAGG |
| 769 | sgCYP11B2_9 | CYP11B2 | chr8 | 143995721 | - | ACTGTCACTAGAAGCCATCA |
| 770 | sgCYP11B2_10 | CYP11B2 | chr8 | 143994727 | - | CCACCGAGCTGCCCTTGCTG |
| 771 | sgCYP17A1_1 | CYP17A1 | chr10 | 104595087 | + | GTGTGCGCCAGAGTCAGCGA |
| 772 | sgCYP17A1_2 | CYP17A1 | chr10 | 104597065 | + | GGGCCAAAACAAATAAGCTA |
| 773 | sgCYP17A1_3 | CYP17A1 | chr10 | 104596971 | + | GCATATGGCCGTGTCTGGGG |
| 774 | sgCYP17A1_4 | CYP17A1 | chr10 | 104596848 | - | GGTGCTTATTAAGAAGGGCA |
| 775 | sgCYP17A1_5 | CYP17A1 | chr10 | 104595062 | - | GCTGCATCGAAGGCTGGCGA |
| 776 | sgCYP17A1_6 | CYP17A1 | chr10 | 104592777 | + | GGTCCATTTAACCACAGAGG |
| 777 | sgCYP17A1_7 | CYP17A1 | chr10 | 104592318 | + | GAGGCGAAGCACCTCTCGGA |
| 778 | sgCYP17A1_8 | CYP17A1 | chr10 | 104592261 | + | GGCACACCTGGAGTCAACGT |
| 779 | sgCYP17A1_9 | CYP17A1 | chr10 | 104591298 | - | GGCGCTGCATCACAATGAGA |
| 780 | sgCYP17A1_10 | CYP17A1 | chr10 | 104594726 | - | GATATGCTGGCCACCCACAA |
| 781 | sgCYP19A1_1 | CYP19A1 | chr15 | 51535017 | + | GAGGAGCAGGACTGGCATGG |
| 782 | sgCYP19A1_2 | CYP19A1 | chr15 | 51514690 | + | TGACCATACGAACAAGGCCG |
| 783 | sgCYP19A1_3 | CYP19A1 | chr15 | 51507337 | + | GAAGAACAAAGAGACAGACA |
| 784 | sgCYP19A1_4 | CYP19A1 | chr15 | 51529157 | + | GAATCTGCCGTGGGAGATGA |
| 785 | sgCYP19A1_5 | CYP19A1 | chr15 | 51529147 | + | CCATCCACAGGAATCTGCCG |
| 786 | sgCYP19A1_6 | CYP19A1 | chr15 | 51529078 | - | GCGAGTCTGGATCTCTGGAG |
| 787 | sgCYP19A1_7 | CYP19A1 | chr15 | 51514645 | - | ACATCTGGACAGGTTGGAGG |
| 788 | sgCYP19A1_8 | CYP19A1 | chr15 | 51510808 | + | GCCATGCATCAAAATAACCT |
| 789 | sgCYP19A1_9 | CYP19A1 | chr15 | 51507375 | + | TCAGCATTTCCAATATGCAC |
| 790 | sgCYP19A1_10 | CYP19A1 | chr15 | 51507300 | - | AAAGCACCCTAATGTTGAAG |
| 791 | sgCYP1A1_1 | CYP1A1 | chr15 | 75015316 | - | AAGGCCTGAAGAATCCACCA |

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|---|---|---|---|---|---|---|
| 792 | sgCYP1A1_2 | CYP1A1 | chr15 | 75015189 | - | AATTGGCTCCACACCCGTGG |
| 793 | sgCYP1A1_3 | CYP1A1 | chr15 | 75014686 | + | GAAGGCATTCAGGGAAGGGT |
| 794 | sgCYP1A1_4 | CYP1A1 | chr15 | 75013354 | - | GAAAGGCTTTTACATCCCCA |
| 795 | sgCYP1A1_5 | CYP1A1 | chr15 | 75015256 | + | CAGGTGCGGGTTCTTTCCCA |
| 796 | sgCYP1A1_6 | CYP1A1 | chr15 | 75015216 | + | GCAGCACGTCCCCATACTGC |
| 797 | sgCYP1A1_7 | CYP1A1 | chr15 | 75015173 | + | AGGCCGCTCAGCACCACCAC |
| 798 | sgCYP1A1_8 | CYP1A1 | chr15 | 75014805 | + | GGTGGTTGTGGTCATAGCGC |
| 799 | sgCYP1A1_9 | CYP1A1 | chr15 | 75014616 | - | GCACTACAAAACCTTTGAGA |
| 800 | sgCYP1A1_10 | CYP1A1 | chr15 | 75013764 | - | GGTACAGAGAAAGATCCAAG |
| 801 | sgCYP1B1_1 | CYP1B1 | chr2 | 38302342 | - | GCCACTGATCGGAAACGCGG |
| 802 | sgCYP1B1_2 | CYP1B1 | chr2 | 38302145 | + | GCCGCCGGACACCACACGGA |
| 803 | sgCYP1B1_3 | CYP1B1 | chr2 | 38301953 | - | ACGGCGCCTTCCTCGACCCG |
| 804 | sgCYP1B1_4 | CYP1B1 | chr2 | 38301890 | + | GTAGCGGCAGCCGAAACACA |
| 805 | sgCYP1B1_5 | CYP1B1 | chr2 | 38301856 | + | TGAGCAGCTCACGGAACTCG |
| 806 | sgCYP1B1_6 | CYP1B1 | chr2 | 38301503 | + | GAGCAGCCACTGCAGCGCGG |
| 807 | sgCYP1B1_7 | CYP1B1 | chr2 | 38302467 | + | GTGGTCTGCTGGATGGACAG |
| 808 | sgCYP1B1_8 | CYP1B1 | chr2 | 38302403 | - | AGCGGCTGCTGAGGCAACGG |
| 809 | sgCYP1B1_9 | CYP1B1 | chr2 | 38302297 | + | GCGCCAGGCGAGCGAACGAG |
| 810 | sgCYP1B1_10 | CYP1B1 | chr2 | 38301920 | + | GACGTTGGCCACGGCCACGA |
| 811 | sgCYP20A1_1 | CYP20A1 | chr2 | 204111567 | - | GAGGCGCCTGCCAAACCAGA |
| 812 | sgCYP20A1_2 | CYP20A1 | chr2 | 204103787 | - | GAAGATCGCGAAGTCCAACA |
| 813 | sgCYP20A1_3 | CYP20A1 | chr2 | 204110566 | + | AAGGCTTCCAGACAAGCTGC |
| 814 | sgCYP20A1_4 | CYP20A1 | chr2 | 204111538 | + | GCATGAGAGATATGGGCCTG |
| 815 | sgCYP20A1_5 | CYP20A1 | chr2 | 204111586 | - | CAGTGCCCAAACTAACCACG |
| 816 | sgCYP20A1_6 | CYP20A1 | chr2 | 204143300 | - | AAACAGACTCCAGTTGCATG |
| 817 | sgCYP20A1_7 | CYP20A1 | chr2 | 204156989 | - | ACCAAGGGCATAAAGGACGA |
| 818 | sgCYP20A1_8 | CYP20A1 | chr2 | 204157005 | - | GATCCTGAAGTACCACACCA |
| 819 | sgCYP20A1_9 | CYP20A1 | chr2 | 204116722 | + | TTAAGGTATCAATCTGGTGG |
| 820 | sgCYP20A1_10 | CYP20A1 | chr2 | 204116747 | + | GTGTGAGTGAAAACCACATG |
| 821 | sgCYP21A2_1 | CYP21A2 | chr6 | 32006293 | - | AAGAAGCCCGGGGCAAGAGG |
| 822 | sgCYP21A2_2 | CYP21A2 | chr6 | 32007567 | + | AGAGAAGAGGGATCACATCG |
| 823 | sgCYP21A2_3 | CYP21A2 | chr6 | 32008182 | + | GATTCAGCAGCGACTGCAGG |
| 824 | sgCYP21A2_4 | CYP21A2 | chr6 | 32006902 | - | GGGAGTAGTCTCCCAAGGAC |
| 825 | sgCYP21A2_5 | CYP21A2 | chr6 | 32007581 | + | ACATCGTGGAGATGCAGCTG |
| 826 | sgCYP21A2_6 | CYP21A2 | chr6 | 32008311 | - | CTAAGGGCACAACGGGCCGC |
| 827 | sgCYP21A2_7 | CYP21A2 | chr6 | 32006887 | + | GAACTACCCGGACCTGTCCT |
| 828 | sgCYP21A2_8 | CYP21A2 | chr6 | 32006922 | - | CTTGTGGGCTTTCCAGAGCA |
| 829 | sgCYP21A2_9 | CYP21A2 | chr6 | 32007772 | + | CCCTCTGCAGGAGAGCCTCG |
| 830 | sgCYP21A2_10 | CYP21A2 | chr6 | 32007790 | - | CCCTCCACTGGCCTGCCACG |
| 831 | sgCYP24A1_1 | CYP24A1 | chr20 | 52789499 | + | GGTTTGATCTCCAGCCGCTG |
| 832 | sgCYP24A1_2 | CYP24A1 | chr20 | 52788191 | - | GGGAAGGGGAAGACTGGCAG |
| 833 | sgCYP24A1_3 | CYP24A1 | chr20 | 52786181 | - | GATGAGCTCTGTGATGAAAG |
| 834 | sgCYP24A1_4 | CYP24A1 | chr20 | 52782319 | - | GCTTCTCCAGAAGAATGCAG |
| 835 | sgCYP24A1_5 | CYP24A1 | chr20 | 52781039 | - | GCACAAGAGCCTCAACACCA |
| 836 | sgCYP24A1_6 | CYP24A1 | chr20 | 52779264 | - | AGAGCTCCAGCTGGCTGCGG |
| 837 | sgCYP24A1_7 | CYP24A1 | chr20 | 52790073 | + | GCAGGAAGGCGGCAAGCGAG |
| 838 | sgCYP24A1_8 | CYP24A1 | chr20 | 52790062 | + | GCGCAGCTGCTGCAGGAAGG |
| 839 | sgCYP24A1_9 | CYP24A1 | chr20 | 52789985 | + | GGGCAGACTGGCACCTCTCG |
| 840 | sgCYP24A1_10 | CYP24A1 | chr20 | 52789863 | - | CAAGAAACAGCACGACACCC |
| 841 | sgCYP26A1_1 | CYP26A1 | chr10 | 94834072 | + | AGTTCCTGCAGATGAAGCGC |
| 842 | sgCYP26A1_2 | CYP26A1 | chr10 | 94834703 | + | GGGCTGCGAACCCCAACTGG |
| 843 | sgCYP26A1_3 | CYP26A1 | chr10 | 94834171 | + | GCATCTTGCTCGGAGAGCAC |
| 844 | sgCYP26A1_4 | CYP26A1 | chr10 | 94834580 | + | GCCGGTGATCACCGAGGAAG |
| 845 | sgCYP26A1_5 | CYP26A1 | chr10 | 94834611 | + | CTGGAGCAGTGGCTGAGCTG |
| 846 | sgCYP26A1_6 | CYP26A1 | chr10 | 94834640 | + | CGGCCTCCTGGTCTACCCCG |
| 847 | sgCYP26A1_7 | CYP26A1 | chr10 | 94834690 | - | GCAGCCCAGTAGGATGCGCA |
| 848 | sgCYP26A1_8 | CYP26A1 | chr10 | 94834898 | + | GCGCTCAGGGCATGAAGGCG |
| 849 | sgCYP26A1_9 | CYP26A1 | chr10 | 94834138 | - | CGCGCCCATCACCCGTACGG |
| 850 | sgCYP26A1_10 | CYP26A1 | chr10 | 94834231 | - | GAGGCAGCCAGATCCCAGAA |
| 851 | sgCYP26B1_1 | CYP26B1 | chr2 | 72362378 | + | GAAGCCCAGCAGCACCCGGA |
| 852 | sgCYP26B1_2 | CYP26B1 | chr2 | 72361916 | - | GAGCAGCAAGGAGCACGGGA |

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|---|---|---|---|---|---|---|
| 853 | sgCYP26B1_3 | CYP26B1 | chr2 | 72374901 | + | GGACACCAGGCACGCGGCGA |
| 854 | sgCYP26B1_4 | CYP26B1 | chr2 | 72374829 | + | GCAGCTCTTGTCGCGAGTGG |
| 855 | sgCYP26B1_5 | CYP26B1 | chr2 | 72371251 | + | GCGCCGGTCACGCGTATCAG |
| 856 | sgCYP26B1_6 | CYP26B1 | chr2 | 72362275 | + | GCCGGTAGCCACTGAAGGGC |
| 857 | sgCYP26B1_7 | CYP26B1 | chr2 | 72362012 | - | GCAGATCCTGCAGAAGGGGC |
| 858 | sgCYP26B1_8 | CYP26B1 | chr2 | 72361980 | + | GCACTGCAGCTTCTCCCGGA |
| 859 | sgCYP26B1_9 | CYP26B1 | chr2 | 72360331 | + | GCAGCTTCTCCAGCACAGTG |
| 860 | sgCYP26B1_10 | CYP26B1 | chr2 | 72371195 | + | GCCACTCGGTGCTCACGAGG |
| 861 | sgCYP26C1_1 | CYP26C1 | chr10 | 94825781 | + | GCTGCTACTGCAGCATCCGG |
| 862 | sgCYP26C1_2 | CYP26C1 | chr10 | 94822616 | - | GATGCGCGCGGCCATGCGGA |
| 863 | sgCYP26C1_3 | CYP26C1 | chr10 | 94822746 | - | GGGGCGGCCGTACCTTGCGT |
| 864 | sgCYP26C1_4 | CYP26C1 | chr10 | 94821066 | + | GGCACTGCTCTCCTGTGCGC |
| 865 | sgCYP26C1_5 | CYP26C1 | chr10 | 94821116 | - | GCATCCAGCGGAGGGTCCAG |
| 866 | sgCYP26C1_6 | CYP26C1 | chr10 | 94821128 | - | GGTCCCGGCTCAGCATCCAG |
| 867 | sgCYP26C1_7 | CYP26C1 | chr10 | 94821181 | - | GCCGAAGAAGGGCCACCCCA |
| 868 | sgCYP26C1_8 | CYP26C1 | chr10 | 94821808 | + | AGTGTTCAAGACGCACCTGC |
| 869 | sgCYP26C1_9 | CYP26C1 | chr10 | 94821895 | - | GCCACTGGCTGCGCACCAGG |
| 870 | sgCYP26C1_10 | CYP26C1 | chr10 | 94822514 | + | GCTACGTGCCGCGCCTGCAG |
| 871 | sgCYP27A1_1 | CYP27A1 | chr2 | 219674386 | + | GGAGCAAGTGATGCGGCAAG |
| 872 | sgCYP27A1_2 | CYP27A1 | chr2 | 219677312 | + | CCTGCAGCGATCCATCCCCG |
| 873 | sgCYP27A1_3 | CYP27A1 | chr2 | 219677663 | + | TGAGAAGCTCGAAGATATGG |
| 874 | sgCYP27A1_4 | CYP27A1 | chr2 | 219678782 | + | AAAGGACCCTGAGATCCAGG |
| 875 | sgCYP27A1_5 | CYP27A1 | chr2 | 219678803 | + | GGCCTTGCACGAGGAAGTGG |
| 876 | sgCYP27A1_6 | CYP27A1 | chr2 | 219679329 | + | AAAGCTTCCAGCCCCACCGC |
| 877 | sgCYP27A1_7 | CYP27A1 | chr2 | 219679345 | - | GGCTGTTTCTCAGCCAGCGG |
| 878 | sgCYP27A1_8 | CYP27A1 | chr2 | 219679459 | + | GATGCAGCTACTCCTCGCAA |
| 879 | sgCYP27A1_9 | CYP27A1 | chr2 | 219674413 | + | GTACCCAGTACGGAACGACA |
| 880 | sgCYP27A1_10 | CYP27A1 | chr2 | 219676984 | + | CCAGCGGTTGCTGAAGCCAG |
| 881 | sgCYP27B1_1 | CYP27B1 | chr12 | 58160780 | + | GACGCGATGGAACACTCTGG |
| 882 | sgCYP27B1_2 | CYP27B1 | chr12 | 58158661 | - | GAGGCAGCCATGAGGAACGG |
| 883 | sgCYP27B1_3 | CYP27B1 | chr12 | 58158193 | + | GGGCAGCTGGGACAGAACAG |
| 884 | sgCYP27B1_4 | CYP27B1 | chr12 | 58159797 | + | GCAGTCCGCAAGCCCGCTGG |
| 885 | sgCYP27B1_5 | CYP27B1 | chr12 | 58159236 | + | GGAGCGGGGCCAGGAGACTG |
| 886 | sgCYP27B1_6 | CYP27B1 | chr12 | 58158966 | + | GCGCGAGCCGAGCAGAACCG |
| 887 | sgCYP27B1_7 | CYP27B1 | chr12 | 58158896 | + | CAAACACCGAGCCCACAGCG |
| 888 | sgCYP27B1_8 | CYP27B1 | chr12 | 58158845 | + | GCACAAGGTGGCGCAGCCAG |
| 889 | sgCYP27B1_9 | CYP27B1 | chr12 | 58158686 | - | GAGGCACGTGGAGCGGCGAG |
| 890 | sgCYP27B1_10 | CYP27B1 | chr12 | 58158647 | - | GAACGGAGGACAGCCCGAGA |
| 891 | sgCYP27C1_1 | CYP27C1 | chr2 | 127958830 | - | GCTGACTGTGGAATACATCG |
| 892 | sgCYP27C1_2 | CYP27C1 | chr2 | 127958774 | + | GATGGCGCCTGCATACATGG |
| 893 | sgCYP27C1_3 | CYP27C1 | chr2 | 127958756 | + | GGGGCGAAGCCATCTGGGGA |
| 894 | sgCYP27C1_4 | CYP27C1 | chr2 | 127958721 | + | GACCTGCAGAATTCCCGCCA |
| 895 | sgCYP27C1_5 | CYP27C1 | chr2 | 127953045 | + | GAGGTACACAGTCCAAGACA |
| 896 | sgCYP27C1_6 | CYP27C1 | chr2 | 127951415 | - | AGTGCTGCCAGGGAACGGCC |
| 897 | sgCYP27C1_7 | CYP27C1 | chr2 | 127950721 | + | GCTGCGAACCCCATGACCAA |
| 898 | sgCYP27C1_8 | CYP27C1 | chr2 | 127950663 | + | GCCCTACCTGGATCACGACG |
| 899 | sgCYP27C1_9 | CYP27C1 | chr2 | 127958876 | + | CAAACGACTCTCATAAAGGA |
| 900 | sgCYP27C1_10 | CYP27C1 | chr2 | 127957002 | + | GCAGCGTCAGAGCCTGGCTA |
| 901 | sgCYP2A13_1 | CYP2A13 | chr19 | 41599633 | - | GCAGCAGGAAACCGTAGCGC |
| 902 | sgCYP2A13_2 | CYP2A13 | chr19 | 41600331 | - | GGGGAGACAGCACCTTAGGG |
| 903 | sgCYP2A13_3 | CYP2A13 | chr19 | 41600214 | + | GGCCAAGATGCCCTACACAG |
| 904 | sgCYP2A13_4 | CYP2A13 | chr19 | 41600279 | - | GACCCTGTGGGCCAAACCCA |
| 905 | sgCYP2A13_5 | CYP2A13 | chr19 | 41596003 | - | AAAACCCCTTAGGGTGGCGA |
| 906 | sgCYP2A13_6 | CYP2A13 | chr19 | 41596088 | - | ACTCACCGTGCGTGCCCCGG |
| 907 | sgCYP2A13_7 | CYP2A13 | chr19 | 41597714 | + | GGAGGACTTCATCGCCAAGA |
| 908 | sgCYP2A13_8 | CYP2A13 | chr19 | 41599597 | - | TCTCAGTGCCCGCAAAGAAG |
| 909 | sgCYP2A13_9 | CYP2A13 | chr19 | 41599620 | - | GTAGCGCAGGGTGGTGCTCA |
| 910 | sgCYP2A13_10 | CYP2A13 | chr19 | 41600943 | + | AGCACTTCCTGGATAAGAAG |
| 911 | sgCYP2A6_1 | CYP2A6 | chr19 | 41351238 | + | GACTCTGCGGGCCAAACTCA |
| 912 | sgCYP2A6_2 | CYP2A6 | chr19 | 41356302 | + | GGCCACCAGAAGCATCCCTG |
| 913 | sgCYP2A6_3 | CYP2A6 | chr19 | 41356243 | - | TGGCAGCAGAGGAAGAGCAA |

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|---|---|---|---|---|---|---|
| 914 | sgCYP2A6_4 | CYP2A6 | chr19 | 41351898 | + | ATAGCGCAGGGTGGTGCTGA |
| 915 | sgCYP2A6_5 | CYP2A6 | chr19 | 41350579 | - | AGCACTTCCTGAATGAGAAG |
| 916 | sgCYP2A6_6 | CYP2A6 | chr19 | 41354653 | - | CCAGGCGTGGTATTCAGCAA |
| 917 | sgCYP2A6_7 | CYP2A6 | chr19 | 41356280 | - | GCTGGTCTGCCTGACTGTAA |
| 918 | sgCYP2A6_8 | CYP2A6 | chr19 | 41354514 | + | CTCACCGCCAGTGCCCCGGA |
| 919 | sgCYP2A6_9 | CYP2A6 | chr19 | 41351935 | - | ACCACGTTGAACCTCTTCAT |
| 920 | sgCYP2A6_10 | CYP2A6 | chr19 | 41350594 | + | GTGCTGGGGATTGAAGTCCT |
| 921 | sgCYP2A7_1 | CYP2A7 | chr19 | 41382492 | + | GCTGGGGATTGAAGTCCTGA |
| 922 | sgCYP2A7_2 | CYP2A7 | chr19 | 41386472 | - | GCTTTGCCATCGCCACCCTG |
| 923 | sgCYP2A7_3 | CYP2A7 | chr19 | 41386405 | - | GGAGTCGGGCTTCCTCATCG |
| 924 | sgCYP2A7_4 | CYP2A7 | chr19 | 41384684 | + | AAGGAGTCGATGAAGTCCTG |
| 925 | sgCYP2A7_5 | CYP2A7 | chr19 | 41387984 | + | TCCAATGAAGGGCAGTGGGG |
| 926 | sgCYP2A7_6 | CYP2A7 | chr19 | 41386420 | - | GGAGCGCATCCAGGAGGAGT |
| 927 | sgCYP2A7_7 | CYP2A7 | chr19 | 41382476 | + | TTGTCATCCAGGAAATGCTG |
| 928 | sgCYP2A7_8 | CYP2A7 | chr19 | 41383134 | + | AACCCTGCGGGCCAAACTCA |
| 929 | sgCYP2A7_9 | CYP2A7 | chr19 | 41387956 | + | TGTGCTCTGTGTTCAGCTGG |
| 930 | sgCYP2A7_10 | CYP2A7 | chr19 | 41386457 | + | CACCCCGAAGTCCCTCAGGG |
| 931 | sgCYP2B6_1 | CYP2B6 | chr19 | 41510293 | + | GGAGGAGCGGATTCAGGAGG |
| 932 | sgCYP2B6_2 | CYP2B6 | chr19 | 41512870 | - | GAATCGTTTTCCAAAGACGA |
| 933 | sgCYP2B6_3 | CYP2B6 | chr19 | 41515909 | - | GCTGAATTCACTGTGTGCGT |
| 934 | sgCYP2B6_4 | CYP2B6 | chr19 | 41518240 | - | GAAGCTCTGGAGGGCGATGT |
| 935 | sgCYP2B6_5 | CYP2B6 | chr19 | 41497246 | - | GGAGTAGCAAGAGTCCTGTG |
| 936 | sgCYP2B6_6 | CYP2B6 | chr19 | 41497279 | - | GGCGGTCATGGGTGTTAGGG |
| 937 | sgCYP2B6_7 | CYP2B6 | chr19 | 41509992 | + | GGCCCTTGTGGACAAGGCTG |
| 938 | sgCYP2B6_8 | CYP2B6 | chr19 | 41510041 | + | ATGGTCGACCCATTCTTCCG |
| 939 | sgCYP2B6_9 | CYP2B6 | chr19 | 41510319 | + | AGTGTCTGATAGAGGAGCTT |
| 940 | sgCYP2B6_10 | CYP2B6 | chr19 | 41512816 | - | GAGGAAGGTGGGGTCCATGA |
| 941 | sgCYP2C18_1 | CYP2C18 | chr10 | 96447922 | - | GAGTCATGAGGCAGAAACGC |
| 942 | sgCYP2C18_2 | CYP2C18 | chr10 | 96454807 | - | ATGGAGAGCTCAGAATCCTG |
| 943 | sgCYP2C18_3 | CYP2C18 | chr10 | 96480266 | + | GCTCCTGCTGAAGTACCCAG |
| 944 | sgCYP2C18_4 | CYP2C18 | chr10 | 96447579 | - | ATATCCATGCAACACCACAA |
| 945 | sgCYP2C18_5 | CYP2C18 | chr10 | 96447613 | + | GGCCCTGATTGATCATGGAG |
| 946 | sgCYP2C18_6 | CYP2C18 | chr10 | 96447955 | + | GATGGGGAAGAGGAGCATCG |
| 947 | sgCYP2C18_7 | CYP2C18 | chr10 | 96480204 | + | GTAACTGATATGTTTGGGGC |
| 948 | sgCYP2C18_8 | CYP2C18 | chr10 | 96484152 | - | GACTCCTGTCCTGCATACAG |
| 949 | sgCYP2C18_9 | CYP2C18 | chr10 | 96484224 | - | GGGGCAGGTTGGTGGGGAGG |
| 950 | sgCYP2C18_10 | CYP2C18 | chr10 | 96493076 | - | ATTGTGCAGCACAGAAGTCA |
| 951 | sgCYP2C19_1 | CYP2C19 | chr10 | 96534871 | + | GGTGCTGCATGGATATGAAG |
| 952 | sgCYP2C19_2 | CYP2C19 | chr10 | 96580304 | + | GCAGCTGACTTACTTGGAGC |
| 953 | sgCYP2C19_3 | CYP2C19 | chr10 | 96602643 | - | GGCCCCTGTCCTGCATGCAG |
| 954 | sgCYP2C19_4 | CYP2C19 | chr10 | 96609696 | - | GTCATGTAGCACAGAAGTGA |
| 955 | sgCYP2C19_5 | CYP2C19 | chr10 | 96541697 | + | GATGGACATCAACAACCCTC |
| 956 | sgCYP2C19_6 | CYP2C19 | chr10 | 96541715 | - | AGCAATCAATAAAGTCCCGA |
| 957 | sgCYP2C19_7 | CYP2C19 | chr10 | 96602605 | + | GAAGAGATTGAACGTGTCGT |
| 958 | sgCYP2C19_8 | CYP2C19 | chr10 | 96609752 | - | CCTTCATCCAGAAAGTGACG |
| 959 | sgCYP2C19_9 | CYP2C19 | chr10 | 96534847 | + | GTATTTTGGCCTGGAACGCA |
| 960 | sgCYP2C19_10 | CYP2C19 | chr10 | 96522556 | - | ACTGGGAGAGGAGTAGGGCC |
| 961 | sgCYP2C8_1 | CYP2C8 | chr10 | 96818231 | + | GGGAAACAATCAATGAGTAG |
| 962 | sgCYP2C8_2 | CYP2C8 | chr10 | 96827055 | + | AGGTTGTGAGGGAGAAACGC |
| 963 | sgCYP2C8_3 | CYP2C8 | chr10 | 96827044 | + | AAAATTCCGCAAGGTTGTGA |
| 964 | sgCYP2C8_4 | CYP2C8 | chr10 | 96826986 | - | GGAAGCTCACTGCCTTGTGG |
| 965 | sgCYP2C8_5 | CYP2C8 | chr10 | 96802773 | - | GGAGCCCCTGCATGCAGGAT |
| 966 | sgCYP2C8_6 | CYP2C8 | chr10 | 96802687 | + | ACTGCATGGGGCACACCGGT |
| 967 | sgCYP2C8_7 | CYP2C8 | chr10 | 96802675 | + | GTATCAGTGGTCACTGCATG |
| 968 | sgCYP2C8_8 | CYP2C8 | chr10 | 96818148 | - | AAAAGAACACCAAGCATCAC |
| 969 | sgCYP2C8_9 | CYP2C8 | chr10 | 96818130 | - | ACTGGATGTTAACAATCCTC |
| 970 | sgCYP2C8_10 | CYP2C8 | chr10 | 96805557 | + | GTGGTCCTACCTGTGACCTC |
| 971 | sgCYP2C9_1 | CYP2C9 | chr10 | 96745812 | - | GTCATGTAGCACAGAAGTCA |
| 972 | sgCYP2C9_2 | CYP2C9 | chr10 | 96731912 | + | GCAGTTGACTTGTTTGGAGC |
| 973 | sgCYP2C9_3 | CYP2C9 | chr10 | 96740989 | - | GGCTCCTGTCTTGCATGCAG |
| 974 | sgCYP2C9_4 | CYP2C9 | chr10 | 96708984 | + | AATGGACATGAACAACCCTC |

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|---|---|---|---|---|---|---|
| 975 | sgCYP2C9_5 | CYP2C9 | chr10 | 96698538 | - | CAATCACTGGGAGAGGAGTG |
| 976 | sgCYP2C9_6 | CYP2C9 | chr10 | 96701667 | - | ATATCCATGCAGCACCACTA |
| 977 | sgCYP2C9_7 | CYP2C9 | chr10 | 96701731 | + | TGGAAGAGGCATTTTCCCAC |
| 978 | sgCYP2C9_8 | CYP2C9 | chr10 | 96745868 | - | CCTTCATCCAGAAAGTGATG |
| 979 | sgCYP2C9_9 | CYP2C9 | chr10 | 96707668 | + | TCAAGATTTTGAGCAGCCCC |
| 980 | sgCYP2C9_10 | CYP2C9 | chr10 | 96740951 | + | GAAGAGATTGAACGTGTGAT |
| 981 | sgCYP2D6_1 | CYP2D6 | chr22 | 42525770 | + | GGGTGATGGGCACAGGCGGG |
| 982 | sgCYP2D6_2 | CYP2D6 | chr22 | 42524310 | + | CCAGCGCTGGGATATGCAGG |
| 983 | sgCYP2D6_3 | CYP2D6 | chr22 | 42526700 | + | GTGCAGCCCAGCGTTGGCGC |
| 984 | sgCYP2D6_4 | CYP2D6 | chr22 | 42525756 | + | GAAACCCAGGATCTGGGTGA |
| 985 | sgCYP2D6_5 | CYP2D6 | chr22 | 42523925 | + | GGTCAGCCACCACTATGCAC |
| 986 | sgCYP2D6_6 | CYP2D6 | chr22 | 42526748 | + | AGATGGCCACTATCACGGCC |
| 987 | sgCYP2D6_7 | CYP2D6 | chr22 | 42525743 | + | GGGAACGCGGCCCGAAACCC |
| 988 | sgCYP2D6_8 | CYP2D6 | chr22 | 42523881 | + | CCAGGCCAGCGTGGTCGAGG |
| 989 | sgCYP2D6_9 | CYP2D6 | chr22 | 42525811 | - | CGCGAGGCGCTGGTGACCCA |
| 990 | sgCYP2D6_10 | CYP2D6 | chr22 | 42526778 | - | AGGTATGGGGCTAGAAGCAC |
| 991 | sgCYP2E1_1 | CYP2E1 | chr10 | 135342041 | + | GGTGATGCACGGCTACAAGG |
| 992 | sgCYP2E1_2 | CYP2E1 | chr10 | 135342116 | - | TGTGCGCATGGAACGCGGGG |
| 993 | sgCYP2E1_3 | CYP2E1 | chr10 | 135345110 | + | CTACCTGGAAGGACATCCGG |
| 994 | sgCYP2E1_4 | CYP2E1 | chr10 | 135345129 | - | GGGTGGTCAGGGAAAACCGC |
| 995 | sgCYP2E1_5 | CYP2E1 | chr10 | 135345176 | + | GCAATGAGAGCCGGATCCAG |
| 996 | sgCYP2E1_6 | CYP2E1 | chr10 | 135345217 | + | GAAGCACTCAGGAAGACCCA |
| 997 | sgCYP2E1_7 | CYP2E1 | chr10 | 135350687 | - | GGGCAGGTTGGAGGGCACGA |
| 998 | sgCYP2E1_8 | CYP2E1 | chr10 | 135340911 | - | GCAGGGCCACGGTGACTCCG |
| 999 | sgCYP2E1_9 | CYP2E1 | chr10 | 135341000 | - | GGGAAGCGGGAAAGGGCCTG |
| 1000 | sgCYP2E1_10 | CYP2E1 | chr10 | 135341993 | - | TGAACACCGGCCCGAAGCGC |
| 1001 | sgCYP2F1_1 | CYP2F1 | chr19 | 41622187 | - | GAGAGGGGTCTGGGTCCCGG |
| 1002 | sgCYP2F1_2 | CYP2F1 | chr19 | 41622482 | - | AAAAGGCAGGGTAGTCACCG |
| 1003 | sgCYP2F1_3 | CYP2F1 | chr19 | 41626343 | + | TGAGGAGCGAATCCTAGAGG |
| 1004 | sgCYP2F1_4 | CYP2F1 | chr19 | 41626361 | + | GGAGGGCAGCTTCCTGCTGG |
| 1005 | sgCYP2F1_5 | CYP2F1 | chr19 | 41630634 | + | GGAGGAGATCGACCTCGTGG |
| 1006 | sgCYP2F1_6 | CYP2F1 | chr19 | 41622422 | - | TCACAGCTTGGTACCCGCTG |
| 1007 | sgCYP2F1_7 | CYP2F1 | chr19 | 41622441 | + | AAGGAGGCCCTGGTGGACCA |
| 1008 | sgCYP2F1_8 | CYP2F1 | chr19 | 41622462 | + | GGAGAGGAGTTTAGTGGCCG |
| 1009 | sgCYP2F1_9 | CYP2F1 | chr19 | 41626307 | + | GATTCTACGGAATTTCGGGA |
| 1010 | sgCYP2F1_10 | CYP2F1 | chr19 | 41626380 | + | GCGGAGCTGCGGAAAACTGA |
| 1011 | sgCYP2J2_1 | CYP2J2 | chr1 | 60370651 | + | GTAGGGCATGGACTCCCGGG |
| 1012 | sgCYP2J2_2 | CYP2J2 | chr1 | 60392364 | + | GAGGATGGACCACTGCCCAG |
| 1013 | sgCYP2J2_3 | CYP2J2 | chr1 | 60392286 | - | GCGCCCAAAGAACTACCCGC |
| 1014 | sgCYP2J2_4 | CYP2J2 | chr1 | 60392345 | + | GTGCCCAGTAGGAGAGTCCG |
| 1015 | sgCYP2J2_5 | CYP2J2 | chr1 | 60392250 | + | AGAAGTTGCCAAGGAAGGGC |
| 1016 | sgCYP2J2_6 | CYP2J2 | chr1 | 60377873 | - | AGAGGAACGCATTCAGGAGG |
| 1017 | sgCYP2J2_7 | CYP2J2 | chr1 | 60373498 | - | CAACTTCCACAACTCTGCGA |
| 1018 | sgCYP2J2_8 | CYP2J2 | chr1 | 60377361 | + | AAAGCGTTCTCCGAAGGTGA |
| 1019 | sgCYP2J2_9 | CYP2J2 | chr1 | 60370695 | - | GATTGACAGAGTGATTGGCC |
| 1020 | sgCYP2J2_10 | CYP2J2 | chr1 | 60366694 | + | GGTCCGGATTGAATGTGTCA |
| 1021 | sgCYP2R1_1 | CYP2R1 | chr11 | 14913718 | - | GAGAGCTGAAGAGGGCGCGG |
| 1022 | sgCYP2R1_2 | CYP2R1 | chr11 | 14913643 | - | GCTGAAGCAGAGGCGGCCGA |
| 1023 | sgCYP2R1_3 | CYP2R1 | chr11 | 14913529 | - | GCAGAGCCAGGTGTACGGAG |
| 1024 | sgCYP2R1_4 | CYP2R1 | chr11 | 14900704 | - | GAGCGATTTCTGGACAGCAG |
| 1025 | sgCYP2R1_5 | CYP2R1 | chr11 | 14913603 | + | CCGATAAATGGCAGCCCCGG |
| 1026 | sgCYP2R1_6 | CYP2R1 | chr11 | 14913560 | + | GACATGGGGAAGCTCGGATG |
| 1027 | sgCYP2R1_7 | CYP2R1 | chr11 | 14901968 | + | CAGGATGCCAATCCATGGAA |
| 1028 | sgCYP2R1_8 | CYP2R1 | chr11 | 14913732 | + | GCTCTCCAAAGCTTCCACAT |
| 1029 | sgCYP2R1_9 | CYP2R1 | chr11 | 14913653 | - | TCCGCCAGCTGCTGAAGCAG |
| 1030 | sgCYP2R1_10 | CYP2R1 | chr11 | 14901989 | + | GGCATTATACAAGAAGACTG |
| 1031 | sgCYP2S1_1 | CYP2S1 | chr19 | 41700494 | - | AGGACCACCACAGGCCGCCA |
| 1032 | sgCYP2S1_2 | CYP2S1 | chr19 | 41700593 | + | GAAGGGACTTTTGATGGCCA |
| 1033 | sgCYP2S1_3 | CYP2S1 | chr19 | 41703775 | + | CGAGGAGCTGATCCAGGCGG |
| 1034 | sgCYP2S1_4 | CYP2S1 | chr19 | 41704384 | - | GCCTGGGCCAGCAGCAGGGA |
| 1035 | sgCYP2S1_5 | CYP2S1 | chr19 | 41704406 | - | GGAGCAGACTACGTTGGAGG |

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|---|---|---|---|---|---|---|
| 1036 | sgCYP2S1_6 | CYP2S1 | chr19 | 41704440 | - | TATCCTCATAGGAGAAGCGG |
| 1037 | sgCYP2S1_7 | CYP2S1 | chr19 | 41707230 | - | CAGGAGGGTATAGCCGACCG |
| 1038 | sgCYP2S1_8 | CYP2S1 | chr19 | 41707249 | - | GAGGGTATTTCATCAGGAGC |
| 1039 | sgCYP2S1_9 | CYP2S1 | chr19 | 41709428 | - | GAACCGCGTCGGTGTAAGGG |
| 1040 | sgCYP2S1_10 | CYP2S1 | chr19 | 41709514 | - | GGTGTACCCTCGGAAGCGGG |
| 1041 | sgCYP2U1_1 | CYP2U1 | chr4 | 108853108 | - | GGTGAGCCAGGAGCACCTGC |
| 1042 | sgCYP2U1_2 | CYP2U1 | chr4 | 108853134 | - | GAAGATGCTGCCGTACACGC |
| 1043 | sgCYP2U1_3 | CYP2U1 | chr4 | 108853253 | - | ATGGAGATGAGCGGCACCCG |
| 1044 | sgCYP2U1_4 | CYP2U1 | chr4 | 108866318 | - | GGAGCAAATGATGTTAGAGA |
| 1045 | sgCYP2U1_5 | CYP2U1 | chr4 | 108866458 | - | AAGGGAAGGTAATAAAGCCA |
| 1046 | sgCYP2U1_6 | CYP2U1 | chr4 | 108870576 | + | AGCCATTTGGGAGAAACCGG |
| 1047 | sgCYP2U1_7 | CYP2U1 | chr4 | 108852936 | + | TGGGCTGGAGCTGGCTGCGG |
| 1048 | sgCYP2U1_8 | CYP2U1 | chr4 | 108852996 | - | GAAGTTGCCCACCAGAGGCC |
| 1049 | sgCYP2U1_9 | CYP2U1 | chr4 | 108853162 | + | TATCGGCCACTACCTGGTGG |
| 1050 | sgCYP2U1_10 | CYP2U1 | chr4 | 108853189 | - | GCACGCTGTGGAAGTCGCTG |
| 1051 | sgCYP2W1_1 | CYP2W1 | chr7 | 1024178 | - | GATGAGCTGGAAGATGGCGA |
| 1052 | sgCYP2W1_2 | CYP2W1 | chr7 | 1024853 | - | GCGGCCGAAGAGGAGCGCGA |
| 1053 | sgCYP2W1_3 | CYP2W1 | chr7 | 1024104 | + | GGTGCTGACGGGGTTCGAGG |
| 1054 | sgCYP2W1_4 | CYP2W1 | chr7 | 1024119 | + | CGAGGCGGTCAAAGAGGCGC |
| 1055 | sgCYP2W1_5 | CYP2W1 | chr7 | 1024714 | + | GGGCAGCTGGATGGCTACAG |
| 1056 | sgCYP2W1_6 | CYP2W1 | chr7 | 1024893 | - | CCAGCAGGGACACAAACACG |
| 1057 | sgCYP2W1_7 | CYP2W1 | chr7 | 1026316 | - | GGACCTCCTCGATCTTGCGC |
| 1058 | sgCYP2W1_8 | CYP2W1 | chr7 | 1026337 | - | GGAGGGTCCTCAGAATGGCA |
| 1059 | sgCYP2W1_9 | CYP2W1 | chr7 | 1026763 | + | GTTTGCTGAGGCCAACGCGG |
| 1060 | sgCYP2W1_10 | CYP2W1 | chr7 | 1026796 | + | GGACATGGTCATGGCCGGGA |
| 1061 | sgCYP39A1_1 | CYP39A1 | chr6 | 46607301 | + | TCAGTTGCCCAGTAAACTGA |
| 1062 | sgCYP39A1_2 | CYP39A1 | chr6 | 46620211 | + | GAATCCAGCCCTTGATGCAC |
| 1063 | sgCYP39A1_3 | CYP39A1 | chr6 | 46563735 | - | TAGAAAAGTGGTGAAGCCTG |
| 1064 | sgCYP39A1_4 | CYP39A1 | chr6 | 46620256 | + | GAAGGAGTAAGAACAGAGCA |
| 1065 | sgCYP39A1_5 | CYP39A1 | chr6 | 46620189 | + | TCAAATCCAACTCCAATCCA |
| 1066 | sgCYP39A1_6 | CYP39A1 | chr6 | 46598789 | - | GACATTATTGCAAGCTACGC |
| 1067 | sgCYP39A1_7 | CYP39A1 | chr6 | 46598774 | - | TACGCTGGATATTGTAGAGA |
| 1068 | sgCYP39A1_8 | CYP39A1 | chr6 | 46555832 | + | AACATCAACAAGTCACCAGA |
| 1069 | sgCYP39A1_9 | CYP39A1 | chr6 | 46555772 | + | GGTTTGAACAATTCAGGCTC |
| 1070 | sgCYP39A1_10 | CYP39A1 | chr6 | 46554897 | - | TTTTCTTCCCACAGGAACGT |
| 1071 | sgCYP3A4_1 | CYP3A4 | chr7 | 99359653 | + | GGGCCTTGTACCTTTCAGGG |
| 1072 | sgCYP3A4_2 | CYP3A4 | chr7 | 99381680 | - | TCTCATCCCAGACTTGGCCA |
| 1073 | sgCYP3A4_3 | CYP3A4 | chr7 | 99370287 | - | TGATGGTCAACAGCCTGTGC |
| 1074 | sgCYP3A4_4 | CYP3A4 | chr7 | 99375685 | - | GGGCTTTTGTATGTTTGACA |
| 1075 | sgCYP3A4_5 | CYP3A4 | chr7 | 99361618 | - | TCTGTCCGATCTGGAGCTCG |
| 1076 | sgCYP3A4_6 | CYP3A4 | chr7 | 99367748 | + | CTTGAGTTTTCCACTGGTGA |
| 1077 | sgCYP3A4_7 | CYP3A4 | chr7 | 99358588 | - | CAGATTCAGCAAGAAGAACA |
| 1078 | sgCYP3A4_8 | CYP3A4 | chr7 | 99367846 | - | ACTCTAGCCTTTTGGTCCAG |
| 1079 | sgCYP3A4_9 | CYP3A4 | chr7 | 99367836 | + | ATAAATCCCACTGGACCAAA |
| 1080 | sgCYP3A4_10 | CYP3A4 | chr7 | 99364851 | + | TCAAGAATTGGGATGAGGAA |
| 1081 | sgCYP3A43_1 | CYP3A43 | chr7 | 99441788 | - | GGATCCATGATGACCAGCAT |
| 1082 | sgCYP3A43_2 | CYP3A43 | chr7 | 99441772 | + | TGAGGGGCAACAGCCCATGC |
| 1083 | sgCYP3A43_3 | CYP3A43 | chr7 | 99445817 | + | ATATGTTGGTGAGAAGCCTG |
| 1084 | sgCYP3A43_4 | CYP3A43 | chr7 | 99434132 | - | AGTTCCCAGAAAAGGCAGAG |
| 1085 | sgCYP3A43_5 | CYP3A43 | chr7 | 99447183 | - | AGTGATTACATCCATGGTGT |
| 1086 | sgCYP3A43_6 | CYP3A43 | chr7 | 99457525 | - | ATACATAATGAAGGGGAGAG |
| 1087 | sgCYP3A43_7 | CYP3A43 | chr7 | 99459359 | + | AATGGAGTGTTCATTCCCAA |
| 1088 | sgCYP3A43_8 | CYP3A43 | chr7 | 99425774 | + | GGTTCTTGTGGCTACCAGCC |
| 1089 | sgCYP3A43_9 | CYP3A43 | chr7 | 99434122 | - | AAAGGCAGAGGGGTTGGCCC |
| 1090 | sgCYP3A43_10 | CYP3A43 | chr7 | 99445123 | - | GCACTTTTCAGAAATCCCAT |
| 1091 | sgCYP3A5_1 | CYP3A5 | chr7 | 99273754 | + | ACATTTCCCAACAAAGGCAG |
| 1092 | sgCYP3A5_2 | CYP3A5 | chr7 | 99270251 | + | GATCACGTCGGGATCTGTGA |
| 1093 | sgCYP3A5_3 | CYP3A5 | chr7 | 99270239 | + | TAGCACTGTTCTGATCACGT |
| 1094 | sgCYP3A5_4 | CYP3A5 | chr7 | 99273726 | + | CAAGCAACTCACCTGACGAT |
| 1095 | sgCYP3A5_5 | CYP3A5 | chr7 | 99270294 | - | TCCCCACACAGAACGTATGA |
| 1096 | sgCYP3A5_6 | CYP3A5 | chr7 | 99273786 | - | TTAAGAGACTGGGAATTCCA |

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| 1097 | sgCYP3A5_7 | CYP3A5 | chr7 | 99270277 | - | TGAAGGTCAACTCCCTGTGC |
| 1098 | sgCYP3A5_8 | CYP3A5 | chr7 | 99270262 | + | GATCTGTGATGGCCAGCACA |
| 1099 | sgCYP3A5_9 | CYP3A5 | chr7 | 99264262 | - | TATTGGTGAGAAACTTGAGG |
| 1100 | sgCYP3A5_10 | CYP3A5 | chr7 | 99258200 | + | GAAGGAAAGAACACTGCTGG |
| 1101 | sgCYP3A7_1 | CYP3A7 | chr7 | 99306647 | + | GGGCCTCCTACCTTTCAGGG |
| 1102 | sgCYP3A7_2 | CYP3A7 | chr7 | 99311094 | - | AAAGACTCTGAGACCCACAA |
| 1103 | sgCYP3A7_3 | CYP3A7 | chr7 | 99317994 | + | GGATCTGTGATAGCCAGCAT |
| 1104 | sgCYP3A7_4 | CYP3A7 | chr7 | 99332653 | + | GGAGTATCAGGCTGACAGCC |
| 1105 | sgCYP3A7_5 | CYP3A7 | chr7 | 99332692 | - | TCTCATCCCAAACTTGGCCG |
| 1106 | sgCYP3A7_6 | CYP3A7 | chr7 | 99319953 | - | GGGCTATTGGACGTTTGACA |
| 1107 | sgCYP3A7_7 | CYP3A7 | chr7 | 99313386 | + | GAGAGAACGAATGGATCTAA |
| 1108 | sgCYP3A7_8 | CYP3A7 | chr7 | 99308384 | - | TGTCCAGCAGAAAGTGCAGA |
| 1109 | sgCYP3A7_9 | CYP3A7 | chr7 | 99318010 | - | TGACTGTCAACAGCCTATGC |
| 1110 | sgCYP3A7_10 | CYP3A7 | chr7 | 99315240 | + | ATAAATCCCACTGGCCCGAA |
| 1111 | sgCYP46A1_1 | CYP46A1 | chr14 | 100192563 | - | GCTGCCCGATGCAGGAGCGG |
| 1112 | sgCYP46A1_2 | CYP46A1 | chr14 | 100150801 | - | GAAGGTGCAGCAGAGGCCGA |
| 1113 | sgCYP46A1_3 | CYP46A1 | chr14 | 100150819 | - | GCTGCGAGCGCGGTGCACGA |
| 1114 | sgCYP46A1_4 | CYP46A1 | chr14 | 100166387 | + | ATGAGCGCTGGCACAAGCAG |
| 1115 | sgCYP46A1_5 | CYP46A1 | chr14 | 100173032 | + | GGTGGAGATTCTAGAAGCCA |
| 1116 | sgCYP46A1_6 | CYP46A1 | chr14 | 100182478 | + | AGAGGGAGCCCAGGACGACG |
| 1117 | sgCYP46A1_7 | CYP46A1 | chr14 | 100191729 | + | TCAGCACCTATGTCATGGGG |
| 1118 | sgCYP46A1_8 | CYP46A1 | chr14 | 100150837 | + | GCCGCTACGAGCACATCCCC |
| 1119 | sgCYP46A1_9 | CYP46A1 | chr14 | 100165811 | + | GATGTCAACCAAGTACAACA |
| 1120 | sgCYP46A1_10 | CYP46A1 | chr14 | 100166403 | + | GCAGCGGAGAGTCATAGACC |
| 1121 | sgCYP4A11_1 | CYP4A11 | chr1 | 47407051 | + | GGATTCCAGAGACATCACCC |
| 1122 | sgCYP4A11_2 | CYP4A11 | chr1 | 47398657 | - | AAAAGTGTGGCCCAACCCAG |
| 1123 | sgCYP4A11_3 | CYP4A11 | chr1 | 47403770 | - | ACAACGGATTCAGAAATGGG |
| 1124 | sgCYP4A11_4 | CYP4A11 | chr1 | 47398478 | + | GAACCCGGTGCAAAACGGAA |
| 1125 | sgCYP4A11_5 | CYP4A11 | chr1 | 47403730 | - | TGTCCTCATTGGCTATGGGG |
| 1126 | sgCYP4A11_6 | CYP4A11 | chr1 | 47406970 | + | TGAGCAGCCACTGCCTGTGC |
| 1127 | sgCYP4A11_7 | CYP4A11 | chr1 | 47402374 | + | AGGGCTTCAGGATGTCATAG |
| 1128 | sgCYP4A11_8 | CYP4A11 | chr1 | 47400751 | + | GTGAAAGGCATTCCTCACAC |
| 1129 | sgCYP4A11_9 | CYP4A11 | chr1 | 47399873 | - | GGAGGAGATCCACAGCCTCC |
| 1130 | sgCYP4A11_10 | CYP4A11 | chr1 | 47407072 | - | GCTGAGCCCCAGCAGACTCC |
| 1131 | sgCYP4A22_1 | CYP4A22 | chr1 | 47603193 | - | GGATCCCGGAGACACCACCC |
| 1132 | sgCYP4A22_2 | CYP4A22 | chr1 | 47611761 | - | GAACCCGGTGCAAAACGGGA |
| 1133 | sgCYP4A22_3 | CYP4A22 | chr1 | 47607854 | + | GACATCCTGAAGCCATACGT |
| 1134 | sgCYP4A22_4 | CYP4A22 | chr1 | 47603176 | + | AGCCCCAGCAGACGCCTGGG |
| 1135 | sgCYP4A22_5 | CYP4A22 | chr1 | 47606512 | + | TGTCCTTATTGGATATGGGG |
| 1136 | sgCYP4A22_6 | CYP4A22 | chr1 | 47607281 | - | TTTGCACACATACCAATCCG |
| 1137 | sgCYP4A22_7 | CYP4A22 | chr1 | 47609434 | + | GAATTCTCAGTCCTACATCC |
| 1138 | sgCYP4A22_8 | CYP4A22 | chr1 | 47611581 | + | AAAAGTGTGGCCCAACCTAG |
| 1139 | sgCYP4A22_9 | CYP4A22 | chr1 | 47611594 | - | GGACCACATACCTCTAGGTT |
| 1140 | sgCYP4A22_10 | CYP4A22 | chr1 | 47603264 | + | AGCTCTACCTGCATAGGCAG |
| 1141 | sgCYP4B1_1 | CYP4B1 | chr1 | 47279929 | + | GGAAGAAGATCCAGAACCGG |
| 1142 | sgCYP4B1_2 | CYP4B1 | chr1 | 47264849 | + | GCTGCTGCGGAGGCAGACGT |
| 1143 | sgCYP4B1_3 | CYP4B1 | chr1 | 47280831 | - | GAGAAACCAGGAGATACCAC |
| 1144 | sgCYP4B1_4 | CYP4B1 | chr1 | 47282774 | - | GGGGCACAGGTGGGTAGAGG |
| 1145 | sgCYP4B1_5 | CYP4B1 | chr1 | 47264755 | - | GGAGAGGAAGCTGGGCACCA |
| 1146 | sgCYP4B1_6 | CYP4B1 | chr1 | 47276524 | - | GGTGGGCATACGGGAACTGG |
| 1147 | sgCYP4B1_7 | CYP4B1 | chr1 | 47276597 | + | GCCAAAGCTGTGTACAGCCG |
| 1148 | sgCYP4B1_8 | CYP4B1 | chr1 | 47276824 | - | GAAGAAGTCATACACATCAG |
| 1149 | sgCYP4B1_9 | CYP4B1 | chr1 | 47279156 | + | CAAGTGGGAAGAGAAAGCTC |
| 1150 | sgCYP4B1_10 | CYP4B1 | chr1 | 47279957 | - | GGAGAATGTCCAGGAAGTCC |
| 1151 | sgCYP4F11_1 | CYP4F11 | chr19 | 16045062 | + | GAGGAAAACACTGGAGGCGG |
| 1152 | sgCYP4F11_2 | CYP4F11 | chr19 | 16040354 | - | GCTGGTGACCACATATCCCC |
| 1153 | sgCYP4F11_3 | CYP4F11 | chr19 | 16040299 | + | GGGTGGCATAAAATGAGGAG |
| 1154 | sgCYP4F11_4 | CYP4F11 | chr19 | 16040282 | + | TAGGCCGGATAATGTCAGGG |
| 1155 | sgCYP4F11_5 | CYP4F11 | chr19 | 16038128 | - | GATGGGCTCCTGCTGAGTGG |
| 1156 | sgCYP4F11_6 | CYP4F11 | chr19 | 16045084 | + | GCAGTTGTCATAGAAGGTGT |
| 1157 | sgCYP4F11_7 | CYP4F11 | chr19 | 16040333 | + | CCAGCCACAACTTAAAGCCC |

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|---|---|---|---|---|---|---|
| 1158 | sgCYP4F11_8 | CYP4F11 | chr19 | 16045101 | + | TGTAGGTCCAGGCCAGGACG |
| 1159 | sgCYP4F11_9 | CYP4F11 | chr19 | 16038227 | + | CTCAATTACTCACCCAGCCA |
| 1160 | sgCYP4F11_10 | CYP4F11 | chr19 | 16038084 | + | AGGCAGGCGTCAACATCCGA |
| 1161 | sgCYP4F12_1 | CYP4F12 | chr19 | 15784360 | + | CTGGCTGGGCCTCAGACCGG |
| 1162 | sgCYP4F12_2 | CYP4F12 | chr19 | 15784477 | - | GTGGGAAACACTGGAGCCGG |
| 1163 | sgCYP4F12_3 | CYP4F12 | chr19 | 15789067 | + | TCAGATCACTCCTACAGAGG |
| 1164 | sgCYP4F12_4 | CYP4F12 | chr19 | 15789110 | + | ATGTCGGCCACCTATTCCCA |
| 1165 | sgCYP4F12_5 | CYP4F12 | chr19 | 15795908 | + | GGGTCCTGTACAACCTTGCG |
| 1166 | sgCYP4F12_6 | CYP4F12 | chr19 | 15807262 | + | ACCCAGAGAACAGCAAGGGG |
| 1167 | sgCYP4F12_7 | CYP4F12 | chr19 | 15784374 | + | GACCGGTGGCAACGTCCCCA |
| 1168 | sgCYP4F12_8 | CYP4F12 | chr19 | 15789094 | + | GAAGAACTCGACCCAGATGT |
| 1169 | sgCYP4F12_9 | CYP4F12 | chr19 | 15789181 | - | TAGACCGGATGGTGTCAGGG |
| 1170 | sgCYP4F12_10 | CYP4F12 | chr19 | 15806984 | - | GGACCCCTATAATATCGATG |
| 1171 | sgCYP4F2_1 | CYP4F2 | chr19 | 16008259 | + | GGGGTTGTGGGAAACACCGA |
| 1172 | sgCYP4F2_2 | CYP4F2 | chr19 | 16006348 | + | GGGTGGCACAAACTGAGGAG |
| 1173 | sgCYP4F2_3 | CYP4F2 | chr19 | 16008370 | + | GGGATGCTGCCACTGGCCAG |
| 1174 | sgCYP4F2_4 | CYP4F2 | chr19 | 16008287 | + | GCAGTTGTCATAGAAGGCGT |
| 1175 | sgCYP4F2_5 | CYP4F2 | chr19 | 16006445 | - | GCAGGTCAACCCCACAGAGG |
| 1176 | sgCYP4F2_6 | CYP4F2 | chr19 | 16000412 | + | ACAGGAAGTCAATATGCAGG |
| 1177 | sgCYP4F2_7 | CYP4F2 | chr19 | 16008337 | + | AGGAGGCCCCGACCAGCAGG |
| 1178 | sgCYP4F2_8 | CYP4F2 | chr19 | 16008226 | - | GTTTTGGGGACACCAGGGCA |
| 1179 | sgCYP4F2_9 | CYP4F2 | chr19 | 16006331 | + | CAGACCGGATGATGTCGGGG |
| 1180 | sgCYP4F2_10 | CYP4F2 | chr19 | 15996762 | - | GGAGGTGCAAGAACTTCTGA |
| 1181 | sgCYP4F22_1 | CYP4F22 | chr19 | 15640613 | - | GGGTGCACCAGAACCAACAG |
| 1182 | sgCYP4F22_2 | CYP4F22 | chr19 | 15658983 | - | CGAGAGACAAGAGTGACAGG |
| 1183 | sgCYP4F22_3 | CYP4F22 | chr19 | 15661536 | - | GAGAAGGGCACATAGGCCAG |
| 1184 | sgCYP4F22_4 | CYP4F22 | chr19 | 15636224 | - | GAGCAGGAAGAGGAGAAGGG |
| 1185 | sgCYP4F22_5 | CYP4F22 | chr19 | 15640516 | + | GCAGTACCTTCCAAATGAGG |
| 1186 | sgCYP4F22_6 | CYP4F22 | chr19 | 15648219 | - | ACTGGGCACTCACCTAGCCA |
| 1187 | sgCYP4F22_7 | CYP4F22 | chr19 | 15651315 | - | GGTGCAAGCGATACTGGCGC |
| 1188 | sgCYP4F22_8 | CYP4F22 | chr19 | 15651419 | + | AAGTCATCCAGGAACGGCGG |
| 1189 | sgCYP4F22_9 | CYP4F22 | chr19 | 15654960 | + | GGTCACGACACAACATCCAG |
| 1190 | sgCYP4F22_10 | CYP4F22 | chr19 | 15658994 | + | TGTCTCTCGCCAATGCACGG |
| 1191 | sgCYP4F3_1 | CYP4F3 | chr19 | 15760083 | - | CAAGAACTTACTCCTGGCAA |
| 1192 | sgCYP4F3_2 | CYP4F3 | chr19 | 15760795 | - | ACAGGAAGTCTATGTACAGG |
| 1193 | sgCYP4F3_3 | CYP4F3 | chr19 | 15769147 | - | GTGCAGCAGCGAGAGACGGC |
| 1194 | sgCYP4F3_4 | CYP4F3 | chr19 | 15752258 | - | GGGATGCTGCCATTGGCCAA |
| 1195 | sgCYP4F3_5 | CYP4F3 | chr19 | 15752231 | + | ACAGCTGAGCCTGTCCTCGC |
| 1196 | sgCYP4F3_6 | CYP4F3 | chr19 | 15752341 | - | GCAGTTGTCATAGAAGGTAT |
| 1197 | sgCYP4F3_7 | CYP4F3 | chr19 | 15759992 | - | CAGACGGGCACTACCCTCTG |
| 1198 | sgCYP4F3_8 | CYP4F3 | chr19 | 15763697 | + | CCAGGAGCGCTGTCGGCAGG |
| 1199 | sgCYP4F3_9 | CYP4F3 | chr19 | 15752243 | - | GCCAAAGGCCCAGCGAGGAC |
| 1200 | sgCYP4F3_10 | CYP4F3 | chr19 | 15769345 | - | TCAGGGTCCGGCCACACGGC |
| 1201 | sgCYP4V2_1 | CYP4V2 | chr4 | 187113115 | + | GATGCGGCCCATCCCCACGG |
| 1202 | sgCYP4V2_2 | CYP4V2 | chr4 | 187115664 | + | GCAGATCATTGAGTACACAG |
| 1203 | sgCYP4V2_3 | CYP4V2 | chr4 | 187113054 | - | GCTCAGGACCAGACTGGCGC |
| 1204 | sgCYP4V2_4 | CYP4V2 | chr4 | 187115704 | - | CCGACCCAGAGCTTCAGCAG |
| 1205 | sgCYP4V2_5 | CYP4V2 | chr4 | 187130311 | + | GAGATACTTCCCCAACCCCG |
| 1206 | sgCYP4V2_6 | CYP4V2 | chr4 | 187130329 | - | GCTCAGGCTGGAACTCCTCG |
| 1207 | sgCYP4V2_7 | CYP4V2 | chr4 | 187113151 | - | GCAGCGCGTGGCCCACCAGT |
| 1208 | sgCYP4V2_8 | CYP4V2 | chr4 | 187117217 | - | AGAAGTCCTAGGCCAAGCCA |
| 1209 | sgCYP4V2_9 | CYP4V2 | chr4 | 187120148 | - | CAGAGATCAAGCCAAAGCCA |
| 1210 | sgCYP4V2_10 | CYP4V2 | chr4 | 187113010 | + | GAAGCTGCTGCTGTGGGGCG |
| 1211 | sgCYP4X1_1 | CYP4X1 | chr1 | 47495723 | - | GGGCCCAATCCAGAAAGGGA |
| 1212 | sgCYP4X1_2 | CYP4X1 | chr1 | 47497143 | - | ACATACATACCAAGAAGTGG |
| 1213 | sgCYP4X1_3 | CYP4X1 | chr1 | 47504345 | + | GGAAAGAAAGAAATCCCTCC |
| 1214 | sgCYP4X1_4 | CYP4X1 | chr1 | 47505142 | + | GCATCAAGAGAGATGCCGGG |
| 1215 | sgCYP4X1_5 | CYP4X1 | chr1 | 47489575 | + | CCATTAAGCTGTACCTGCGG |
| 1216 | sgCYP4X1_6 | CYP4X1 | chr1 | 47489641 | - | GTGCCCAAGGAACCAGTGGG |
| 1217 | sgCYP4X1_7 | CYP4X1 | chr1 | 47497127 | - | GTGGAGGTGAGAATTTCTGC |
| 1218 | sgCYP4X1_8 | CYP4X1 | chr1 | 47498995 | + | GAAAGCATACATTGAGGTGA |

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|---|---|---|---|---|---|---|
| 1219 | sgCYP4X1_9 | CYP4X1 | chr1 | 47501822 | + | CGAGTGTTGAATCAGTACAC |
| 1220 | sgCYP4X1_10 | CYP4X1 | chr1 | 47515144 | - | AGAATGGTAAGTAGGCATAG |
| 1221 | sgCYP4Z1_1 | CYP4Z1 | chr1 | 47533291 | - | GGGGTGCAGGAAACAGGTGC |
| 1222 | sgCYP4Z1_2 | CYP4Z1 | chr1 | 47533311 | - | GCCATAGAACCAGTGGGCAG |
| 1223 | sgCYP4Z1_3 | CYP4Z1 | chr1 | 47560289 | + | ATACTACTCAGAAAAGGCGC |
| 1224 | sgCYP4Z1_4 | CYP4Z1 | chr1 | 47534314 | + | TGAGGTGTATCATAAGCTGA |
| 1225 | sgCYP4Z1_5 | CYP4Z1 | chr1 | 47534376 | - | GACACTGAAGAACATCGTAA |
| 1226 | sgCYP4Z1_6 | CYP4Z1 | chr1 | 47564851 | - | AAGGATCCAGGAGATAGCAC |
| 1227 | sgCYP4Z1_7 | CYP4Z1 | chr1 | 47571829 | - | GCATTCCTTGATGCACATCG |
| 1228 | sgCYP4Z1_8 | CYP4Z1 | chr1 | 47564870 | - | GGTACTTTGCCAAGCAGTAA |
| 1229 | sgCYP4Z1_9 | CYP4Z1 | chr1 | 47564912 | - | GGAGTTCCCTGATTTCATCT |
| 1230 | sgCYP4Z1_10 | CYP4Z1 | chr1 | 47571901 | - | GCGTCCATCTGGAAAGGTGA |
| 1231 | sgCYP51A1_1 | CYP51A1 | chr7 | 91755561 | + | CCATACCTGAAACTAGGCAA |
| 1232 | sgCYP51A1_2 | CYP51A1 | chr7 | 91752436 | - | GCCTCCTTTAACTTATGACC |
| 1233 | sgCYP51A1_3 | CYP51A1 | chr7 | 91747836 | - | GAGAATGGCCAGAACTCCTC |
| 1234 | sgCYP51A1_4 | CYP51A1 | chr7 | 91752534 | - | TCAACTACTAGTGCTTGGAT |
| 1235 | sgCYP51A1_5 | CYP51A1 | chr7 | 91747825 | + | GATACTCACCTGAGGAGTTC |
| 1236 | sgCYP51A1_6 | CYP51A1 | chr7 | 91763669 | - | GACGGAGTGAATGGCGGCGG |
| 1237 | sgCYP51A1_7 | CYP51A1 | chr7 | 91763476 | + | AATGTACGTACCACCCCTGC |
| 1238 | sgCYP51A1_8 | CYP51A1 | chr7 | 91761158 | + | ATTGGGGAGAAAATGTATGG |
| 1239 | sgCYP51A1_9 | CYP51A1 | chr7 | 91763639 | - | GCTGCTGCTGGGCTTGCTGC |
| 1240 | sgCYP51A1_10 | CYP51A1 | chr7 | 91761140 | + | GCATGCCCAAGGAATGGAAT |
| 1241 | sgCYP7A1_1 | CYP7A1 | chr8 | 59409722 | - | GCACAGAAGCATTGACCCGA |
| 1242 | sgCYP7A1_2 | CYP7A1 | chr8 | 59409230 | - | GAAGGCCAAGACACACCTCG |
| 1243 | sgCYP7A1_3 | CYP7A1 | chr8 | 59409212 | + | GCGATGCCCAGAGGACCACG |
| 1244 | sgCYP7A1_4 | CYP7A1 | chr8 | 59405065 | - | GTATAATCAAGGAATCGCTG |
| 1245 | sgCYP7A1_5 | CYP7A1 | chr8 | 59410964 | + | CAAATTGCAGAGCACAGCCC |
| 1246 | sgCYP7A1_6 | CYP7A1 | chr8 | 59409586 | + | TTTGAGTTAGAGGAGACTGG |
| 1247 | sgCYP7A1_7 | CYP7A1 | chr8 | 59409400 | + | GGGAGGCCTGCTACCAGGGC |
| 1248 | sgCYP7A1_8 | CYP7A1 | chr8 | 59409368 | - | CAGGACTGCGCACAATGCCC |
| 1249 | sgCYP7A1_9 | CYP7A1 | chr8 | 59409324 | - | GGCACGAGAACCTCCAAAAG |
| 1250 | sgCYP7A1_10 | CYP7A1 | chr8 | 59409275 | + | TGTCATTGAGAAACATGCGC |
| 1251 | sgCYP7B1_1 | CYP7B1 | chr8 | 65711027 | + | TGCGCCGGACAAGCAAGCAG |
| 1252 | sgCYP7B1_2 | CYP7B1 | chr8 | 65711012 | + | GAGGCGCTTACCTGGTGCGC |
| 1253 | sgCYP7B1_3 | CYP7B1 | chr8 | 65528321 | - | AGTTAGCCAAGATGCAAGGA |
| 1254 | sgCYP7B1_4 | CYP7B1 | chr8 | 65527697 | - | TCTGCGGCACCCAGAAGCTA |
| 1255 | sgCYP7B1_5 | CYP7B1 | chr8 | 65517261 | + | GGGTCACCATGTAGGACTGG |
| 1256 | sgCYP7B1_6 | CYP7B1 | chr8 | 65711126 | - | GATGGCAGGAGAAGTGTCCG |
| 1257 | sgCYP7B1_7 | CYP7B1 | chr8 | 65711100 | + | CTCCAGCGAAAAGCGGCCCG |
| 1258 | sgCYP7B1_8 | CYP7B1 | chr8 | 65711043 | + | GCAGAGGGCCAGGAGCAGCA |
| 1259 | sgCYP7B1_9 | CYP7B1 | chr8 | 65517350 | + | CTCCTCAACAAAACGAATGG |
| 1260 | sgCYP7B1_10 | CYP7B1 | chr8 | 65517325 | - | GACTCTCAGTTCAGAGACCG |
| 1261 | sgCYP8B1_1 | CYP8B1 | chr3 | 42917171 | + | GGCATGGCCAAGCCAGGGCA |
| 1262 | sgCYP8B1_2 | CYP8B1 | chr3 | 42916741 | - | GAGCTTGTTCGGCTACACGA |
| 1263 | sgCYP8B1_3 | CYP8B1 | chr3 | 42916591 | + | GCATCTTGTGAAAGAGACGC |
| 1264 | sgCYP8B1_4 | CYP8B1 | chr3 | 42916567 | - | CGTGAGCCACAGCCAGGAGA |
| 1265 | sgCYP8B1_5 | CYP8B1 | chr3 | 42916484 | + | GAACTTGTCCTGCATAGCTG |
| 1266 | sgCYP8B1_6 | CYP8B1 | chr3 | 42916422 | + | AAGAGGGCCCAGAAAGAGGT |
| 1267 | sgCYP8B1_7 | CYP8B1 | chr3 | 42916265 | - | GCGTGGTGGAGGAGACGCTG |
| 1268 | sgCYP8B1_8 | CYP8B1 | chr3 | 42916085 | + | GAAGCGATCGTACTTGAAGA |
| 1269 | sgCYP8B1_9 | CYP8B1 | chr3 | 42915967 | + | TGAGTGCAAAGAACCTCCCA |
| 1270 | sgCYP8B1_10 | CYP8B1 | chr3 | 42917233 | + | GGAGCATCCCTGGCAGGCAC |
| 1271 | sgDDX11_1 | DDX11 | chr12 | 31236778 | - | AAAGTCACGGAGCCAAGAGA |
| 1272 | sgDDX11_2 | DDX11 | chr12 | 31242349 | + | AATGAAGACGTGAAAAGCCT |
| 1273 | sgDDX11_3 | DDX11 | chr12 | 31244705 | - | GTCCTGCAGCCGGATGCCCG |
| 1274 | sgDDX11_4 | DDX11 | chr12 | 31253994 | - | GATCCCGCTGCAGATGACGA |
| 1275 | sgDDX11_5 | DDX11 | chr12 | 31249833 | - | TCAGTGGAGAAGCTGGTCGC |
| 1276 | sgDDX11_6 | DDX11 | chr12 | 31256617 | - | AGGTAGCTTTGACCTCCACA |
| 1277 | sgDDX11_7 | DDX11 | chr12 | 31236974 | + | GGACCTGGTGGACCGACTAA |
| 1278 | sgDDX11_8 | DDX11 | chr12 | 31249863 | - | TGAGAGCTGCCAGGAAGCCT |
| 1279 | sgDDX11_9 | DDX11 | chr12 | 31256544 | - | CTGGTCCAGGAGCACTACGC |

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| 1280 | sgDDX11_10 | DDX11 | chr12 | 31256602 | + | CTGGATCCGAGCCCGTGTGG |
| 1281 | sgDGCR8_1 | DGCR8 | chr22 | 20073604 | - | GCACCACTGGACGTTTGCAG |
| 1282 | sgDGCR8_2 | DGCR8 | chr22 | 20073725 | - | GAGGAGGCGGCCCTTAGAGA |
| 1283 | sgDGCR8_3 | DGCR8 | chr22 | 20077511 | - | CAAGGGATGCTACTCAGAGG |
| 1284 | sgDGCR8_4 | DGCR8 | chr22 | 20074117 | + | CTAGATGAAGAAGGAGCAGG |
| 1285 | sgDGCR8_5 | DGCR8 | chr22 | 20074200 | - | GCTGCCAACATACCTCGTAG |
| 1286 | sgDGCR8_6 | DGCR8 | chr22 | 20077202 | - | GCAGCGGCTCTGTAGGTGGG |
| 1287 | sgDGCR8_7 | DGCR8 | chr22 | 20077268 | + | CCTACACAGAGAGTCTCGGG |
| 1288 | sgDGCR8_8 | DGCR8 | chr22 | 20077649 | - | ATAGAGTCAGGCTCATCCAG |
| 1289 | sgDGCR8_9 | DGCR8 | chr22 | 20077738 | + | GCAGGTGAAGGCCAAAGTCG |
| 1290 | sgDGCR8_10 | DGCR8 | chr22 | 20079024 | + | TCAGGACTTGGGCTGAGCGG |
| 1291 | sgDOHH_1 | DOHH | chr19 | 3492442 | - | GAGTGGCTGCAGCAGCACGG |
| 1292 | sgDOHH_2 | DOHH | chr19 | 3496794 | - | GATGGTGACGGAGCAGGAGG |
| 1293 | sgDOHH_3 | DOHH | chr19 | 3496784 | - | GAGCAGGAGGTGGATGCCAT |
| 1294 | sgDOHH_4 | DOHH | chr19 | 3496765 | + | GTCCACCAGCGTCTGCCCGA |
| 1295 | sgDOHH_5 | DOHH | chr19 | 3496675 | + | GGCCTGGCTGATCCATGCAA |
| 1296 | sgDOHH_6 | DOHH | chr19 | 3496578 | + | GCAGCACGTCCACCAGCATG |
| 1297 | sgDOHH_7 | DOHH | chr19 | 3492400 | + | GCAGGGTCCACGGAGAGGTA |
| 1298 | sgDOHH_8 | DOHH | chr19 | 3492376 | + | ACGTCACGCTCCTCAGCCGG |
| 1299 | sgDOHH_9 | DOHH | chr19 | 3492316 | + | GCGCGGTATCGCTCGAAGAG |
| 1300 | sgDOHH_10 | DOHH | chr19 | 3496749 | - | GGACCCCAAGCAGCCCCTGC |
| 1301 | sgDPH1_1 | DPH1 | chr17 | 1943831 | - | GCAGCAGCCTCACAAAGGAA |
| 1302 | sgDPH1_2 | DPH1 | chr17 | 1936920 | + | CTGGAGGATCCAACAAGCCC |
| 1303 | sgDPH1_3 | DPH1 | chr17 | 1939318 | + | TGTGGATGACTTCACAGCGA |
| 1304 | sgDPH1_4 | DPH1 | chr17 | 1940193 | - | GCAGCCCAGGATCTCTCCAG |
| 1305 | sgDPH1_5 | DPH1 | chr17 | 1943067 | - | TGACAGACTCCAGATGGAAG |
| 1306 | sgDPH1_6 | DPH1 | chr17 | 1943595 | - | GGACTTAGCTGAGCGGGCAG |
| 1307 | sgDPH1_7 | DPH1 | chr17 | 1943867 | - | GAAGTAGGCTAAGCTTGCTG |
| 1308 | sgDPH1_8 | DPH1 | chr17 | 1944782 | - | GGAAATGTCCCTCAGAGCCA |
| 1309 | sgDPH1_9 | DPH1 | chr17 | 1936809 | - | GATTGGCCACGCGGCCCCGA |
| 1310 | sgDPH1_10 | DPH1 | chr17 | 1936904 | + | AGATCCCCAAGACCATCTGG |
| 1311 | sgDPH2_1 | DPH2 | chr1 | 44435856 | + | GATGTTTAGCAGCCCTGCCG |
| 1312 | sgDPH2_2 | DPH2 | chr1 | 44437843 | - | CAGGTGGTGGGAGAGCCACG |
| 1313 | sgDPH2_3 | DPH2 | chr1 | 44435880 | + | GGCGCTGCAGCGAGAGACCG |
| 1314 | sgDPH2_4 | DPH2 | chr1 | 44436288 | + | CCAGCTATTGGGAGATGCTG |
| 1315 | sgDPH2_5 | DPH2 | chr1 | 44436359 | + | TGGGTGACACAGCCTACGGC |
| 1316 | sgDPH2_6 | DPH2 | chr1 | 44436854 | - | AAAACCCCTTACCCAGGGCA |
| 1317 | sgDPH2_7 | DPH2 | chr1 | 44437950 | + | GAAGCTTGGCTCTGACCCCA |
| 1318 | sgDPH2_8 | DPH2 | chr1 | 44436742 | - | AGAACGTTGACGAAGCACGA |
| 1319 | sgDPH2_9 | DPH2 | chr1 | 44435908 | - | GGAAGAGGAGTAAGCAGTCC |
| 1320 | sgDPH2_10 | DPH2 | chr1 | 44435931 | + | CCTGGACGGAGTGTACGAGC |
| 1321 | sgDPYD_1 | DPYD | chr1 | 98386452 | + | CGAGTCCTTACTGAGCACAG |
| 1322 | sgDPYD_2 | DPYD | chr1 | 98187132 | + | TCCACCTACACAAAGATCAG |
| 1323 | sgDPYD_3 | DPYD | chr1 | 98187091 | - | GAGGGACCCATTAATATTGG |
| 1324 | sgDPYD_4 | DPYD | chr1 | 98348903 | + | GTGTTCGAGGATTTAAAGCC |
| 1325 | sgDPYD_5 | DPYD | chr1 | 98293672 | - | GAGCTCTCCGAGAAGCAATG |
| 1326 | sgDPYD_6 | DPYD | chr1 | 98386442 | - | TAAGGACTCGGCGGACATCG |
| 1327 | sgDPYD_7 | DPYD | chr1 | 98293703 | - | GACATCAAGCACACGACTCT |
| 1328 | sgDPYD_8 | DPYD | chr1 | 98205993 | + | TGGACAGCTCTTCTGACACG |
| 1329 | sgDPYD_9 | DPYD | chr1 | 98187167 | - | ACTTGGTCTGACTTGTGGAA |
| 1330 | sgDPYD_10 | DPYD | chr1 | 98348859 | + | GTCTAATTTCTTGGCCGAAG |
| 1331 | sgDUOX1_1 | DUOX1 | chr15 | 45434284 | - | GAAGCAACAGAGGGTCCCGA |
| 1332 | sgDUOX1_2 | DUOX1 | chr15 | 45444667 | - | GAGGCGATGGAAGTCCACGG |
| 1333 | sgDUOX1_3 | DUOX1 | chr15 | 45427462 | + | ACGGAGTCCCAGCAATCCCC |
| 1334 | sgDUOX1_4 | DUOX1 | chr15 | 45427738 | + | GCGCTGCGGAGCTTCTCCAG |
| 1335 | sgDUOX1_5 | DUOX1 | chr15 | 45433173 | - | ACAGAGGTCCAGGGTCCCGG |
| 1336 | sgDUOX1_6 | DUOX1 | chr15 | 45436268 | - | GCAGGTACACAAGCACGGGC |
| 1337 | sgDUOX1_7 | DUOX1 | chr15 | 45436286 | + | GCAGCCCGGGCAGATCCGTG |
| 1338 | sgDUOX1_8 | DUOX1 | chr15 | 45437172 | + | GCATCCAGGAGTGGGAGCTG |
| 1339 | sgDUOX1_9 | DUOX1 | chr15 | 45444565 | - | GGAGAACATGAAAGAGATGC |
| 1340 | sgDUOX1_10 | DUOX1 | chr15 | 45444680 | - | CGGTGGAGGCAATGAGGCGA |

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|---|---|---|---|---|---|---|
| 1341 | sgDUOX2_1 | DUOX2 | chr15 | 45392315 | - | GCTTCGTGGAGAACTACCGG |
| 1342 | sgDUOX2_2 | DUOX2 | chr15 | 45405524 | + | GGAGCCTGATACTTGCCCGA |
| 1343 | sgDUOX2_3 | DUOX2 | chr15 | 45401740 | - | GGAGTTGGAGGACAACATAG |
| 1344 | sgDUOX2_4 | DUOX2 | chr15 | 45401115 | + | CTGTACGGGAGAATTTGCCA |
| 1345 | sgDUOX2_5 | DUOX2 | chr15 | 45400305 | + | AGGACAATGGCACTGAACAG |
| 1346 | sgDUOX2_6 | DUOX2 | chr15 | 45399101 | + | ACAGTCAGGGGTGCACACTG |
| 1347 | sgDUOX2_7 | DUOX2 | chr15 | 45399089 | + | AAGAAGTCAAGCACAGTCAG |
| 1348 | sgDUOX2_8 | DUOX2 | chr15 | 45399043 | + | GCAGAGAGCAATGATGGTGA |
| 1349 | sgDUOX2_9 | DUOX2 | chr15 | 45399018 | + | CTAAGAGCTCACCTAAGGGA |
| 1350 | sgDUOX2_10 | DUOX2 | chr15 | 45397886 | - | AGGCTGTGACAAAGCAGCAG |
| 1351 | sgEGLN1_1 | EGLN1 | chr1 | 231557618 | - | GCCATGGCCAATGACAGCGG |
| 1352 | sgEGLN1_2 | EGLN1 | chr1 | 231557346 | - | CCGGGAGCCCAGGAAGGCAG |
| 1353 | sgEGLN1_3 | EGLN1 | chr1 | 231557007 | - | CAAGCACGGCATCTGTGTGG |
| 1354 | sgEGLN1_4 | EGLN1 | chr1 | 231556880 | - | GACTCGTCCAAGGACATCCG |
| 1355 | sgEGLN1_5 | EGLN1 | chr1 | 231556974 | + | GCTGTCCGGTCTCCTTGCCG |
| 1356 | sgEGLN1_6 | EGLN1 | chr1 | 231556753 | - | GCAGCTACAAAATCAATGGC |
| 1357 | sgEGLN1_7 | EGLN1 | chr1 | 231509822 | + | GCCCGGATAACAAGCAACCA |
| 1358 | sgEGLN1_8 | EGLN1 | chr1 | 231509728 | - | TAATAAAGACTGGGATGCCA |
| 1359 | sgEGLN1_9 | EGLN1 | chr1 | 231557475 | + | GCTTCTTCCAGTCCTGACGC |
| 1360 | sgEGLN1_10 | EGLN1 | chr1 | 231557048 | + | TCGAGCGCCAGCTTCAGCGC |
| 1361 | sgEGLN2_1 | EGLN2 | chr19 | 41306691 | + | ACTGCCAGCCCTCTTCGGGA |
| 1362 | sgEGLN2_2 | EGLN2 | chr19 | 41306748 | - | GCAGCGCCTTCACTCTGCAG |
| 1363 | sgEGLN2_3 | EGLN2 | chr19 | 41306834 | + | GAAATGGGCCGAGGATGGTG |
| 1364 | sgEGLN2_4 | EGLN2 | chr19 | 41306885 | + | GGCCAGGCAAGAGAACCAGG |
| 1365 | sgEGLN2_5 | EGLN2 | chr19 | 41307102 | + | GAGGTGGAGGCCCTCAAACG |
| 1366 | sgEGLN2_6 | EGLN2 | chr19 | 41307171 | - | TCCCCACGGATGCTGCGCGG |
| 1367 | sgEGLN2_7 | EGLN2 | chr19 | 41312508 | + | GTTGACAATCCCCACGGCGA |
| 1368 | sgEGLN2_8 | EGLN2 | chr19 | 41306564 | + | TGGCCGGGCCAGGATGGGAG |
| 1369 | sgEGLN2_9 | EGLN2 | chr19 | 41306722 | + | GGCAGGATGGTGGTGAGCTG |
| 1370 | sgEGLN2_10 | EGLN2 | chr19 | 41306897 | + | GAACCAGGAGGCAGAGCGGG |
| 1371 | sgEGLN3_1 | EGLN3 | chr14 | 34419847 | - | GGACAACTTCCTGGGCGAGG |
| 1372 | sgEGLN3_2 | EGLN3 | chr14 | 34419799 | - | CAAGCAGCTGCACTGCACCG |
| 1373 | sgEGLN3_3 | EGLN3 | chr14 | 34419668 | + | GAGGGACAGGAGGAAGCTGA |
| 1374 | sgEGLN3_4 | EGLN3 | chr14 | 34419611 | - | GCAAATACTACGTCAAGGAG |
| 1375 | sgEGLN3_5 | EGLN3 | chr14 | 34400341 | + | GATGCAGCGACCATCACCGT |
| 1376 | sgEGLN3_6 | EGLN3 | chr14 | 34419913 | - | GGACCTGGAGAAAATTGCCC |
| 1377 | sgEGLN3_7 | EGLN3 | chr14 | 34419883 | - | CGTGCCCTGTCTGCACGAGG |
| 1378 | sgEGLN3_8 | EGLN3 | chr14 | 34419650 | + | GAGGACCAGCCTGTCGATGA |
| 1379 | sgEGLN3_9 | EGLN3 | chr14 | 34400415 | - | GATTTCTCCATAGGCAATGG |
| 1380 | sgEGLN3_10 | EGLN3 | chr14 | 34400354 | - | GTGGACAACCCCAACGGTGA |
| 1381 | sgEIF2AK1_1 | EIF2AK1 | chr7 | 6066457 | + | GCACTGGACACCTTTTACGG |
| 1382 | sgEIF2AK1_2 | EIF2AK1 | chr7 | 6098675 | - | GGTCCGCAAGCGCGAAGAGG |
| 1383 | sgEIF2AK1_3 | EIF2AK1 | chr7 | 6098623 | + | GCGGGAAAGTCGATGGCCGG |
| 1384 | sgEIF2AK1_4 | EIF2AK1 | chr7 | 6094259 | + | GTTTGCAACTGCAAAAGGGA |
| 1385 | sgEIF2AK1_5 | EIF2AK1 | chr7 | 6078222 | - | GGATAGTCGAGAGAAACAAG |
| 1386 | sgEIF2AK1_6 | EIF2AK1 | chr7 | 6098662 | - | GAAGAGGAGGGCGACGGGGC |
| 1387 | sgEIF2AK1_7 | EIF2AK1 | chr7 | 6094237 | + | GCAAAGAAACCAGCAAGAGT |
| 1388 | sgEIF2AK1_8 | EIF2AK1 | chr7 | 6080654 | - | GGAGCTCCAGGAAAATGGCT |
| 1389 | sgEIF2AK1_9 | EIF2AK1 | chr7 | 6084268 | + | CCAGCACCTTCACTTCCCGT |
| 1390 | sgEIF2AK1_10 | EIF2AK1 | chr7 | 6082579 | + | TCGGAGAGCACTTCCAGAGA |
| 1391 | sgELP3_1 | ELP3 | chr8 | 27967894 | - | GGCACGGATAGCTCTCATGG |
| 1392 | sgELP3_2 | ELP3 | chr8 | 27987142 | + | GCAGAGTGTTTATGAAGATG |
| 1393 | sgELP3_3 | ELP3 | chr8 | 27954793 | + | TGATTGAAGCCCACGAGCAG |
| 1394 | sgELP3_4 | ELP3 | chr8 | 27957391 | - | GCAATGATATCCACCAGGCG |
| 1395 | sgELP3_5 | ELP3 | chr8 | 27957460 | + | AAACCCATCAGAACTGCTAG |
| 1396 | sgELP3_6 | ELP3 | chr8 | 27965419 | + | TGTACTGGCAGATACTGCCC |
| 1397 | sgELP3_7 | ELP3 | chr8 | 27965471 | - | ATAGCCAGTGTAAGACTGGG |
| 1398 | sgELP3_8 | ELP3 | chr8 | 27995380 | - | CGGTACACTCGAGTCCATGG |
| 1399 | sgELP3_9 | ELP3 | chr8 | 27950724 | + | GCGCAGAAATGAGGCAGAAG |
| 1400 | sgELP3_10 | ELP3 | chr8 | 27957421 | - | AAGACCTTGCGATACTGAGG |
| 1401 | sgEML6_1 | EML6 | chr2 | 55176023 | - | GGAGCTGCTCGGCTAACGGG |

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|---|---|---|---|---|---|---|
| 1402 | sgEML6_2 | EML6 | chr2 | 55181168 | - | GAAGCACCGCAGCATGGAGA |
| 1403 | sgEML6_3 | EML6 | chr2 | 55186364 | + | GATGGACTCATAGTGACCGG |
| 1404 | sgEML6_4 | EML6 | chr2 | 55194183 | + | GAAGCAGGTAACTGAAGCCG |
| 1405 | sgEML6_5 | EML6 | chr2 | 54952238 | + | GAGTGGGTGTACGGGTACCG |
| 1406 | sgEML6_6 | EML6 | chr2 | 55044006 | - | TACCCTGTCAGAATGGCCGG |
| 1407 | sgEML6_7 | EML6 | chr2 | 55054741 | + | AGGGATATTTGGCAAAACAG |
| 1408 | sgEML6_8 | EML6 | chr2 | 55080865 | + | AATTTGGCCCAAATACACTG |
| 1409 | sgEML6_9 | EML6 | chr2 | 55086741 | + | GTGGGTGTTGAGCACAGGAG |
| 1410 | sgEML6_10 | EML6 | chr2 | 55093971 | + | CAAACGAGAAAAGGCTCCTG |
| 1411 | sgEPX_1 | EPX | chr17 | 56270402 | - | GGTCTCCACTGCCCCAGGGG |
| 1412 | sgEPX_2 | EPX | chr17 | 56270427 | + | CCTGCGAGACTGCATAGCAG |
| 1413 | sgEPX_3 | EPX | chr17 | 56270809 | - | GGCCCGAACAACTGTCCTGG |
| 1414 | sgEPX_4 | EPX | chr17 | 56270863 | + | AAGAGAAGTTACAACCCCAG |
| 1415 | sgEPX_5 | EPX | chr17 | 56272516 | - | GTACCTTGATGGGAAAGCAG |
| 1416 | sgEPX_6 | EPX | chr17 | 56274460 | - | GTTGCGGAGCCGCAGCGAGA |
| 1417 | sgEPX_7 | EPX | chr17 | 56274475 | + | GCAACCGGACCAACTACCTG |
| 1418 | sgEPX_8 | EPX | chr17 | 56276485 | + | TGAGACGCCTGAATCCCCGG |
| 1419 | sgEPX_9 | EPX | chr17 | 56276502 | - | AGTTTGTCTCCATTCCACCG |
| 1420 | sgEPX_10 | EPX | chr17 | 56277090 | - | GACATGCGAGTTGGGTGCGG |
| 1421 | sgERCC2_1 | ERCC2 | chr19 | 45873402 | - | GCGGGAGCTCAAACGCACGC |
| 1422 | sgERCC2_2 | ERCC2 | chr19 | 45867692 | + | GGCCTCGTCGAAGACCACGA |
| 1423 | sgERCC2_3 | ERCC2 | chr19 | 45867549 | - | TGAGCGTCAACCTCACCCGC |
| 1424 | sgERCC2_4 | ERCC2 | chr19 | 45867530 | + | GGCACCGGTCAAGGGTCCGG |
| 1425 | sgERCC2_5 | ERCC2 | chr19 | 45867316 | + | GCAGCCCCTCCACCAGACGC |
| 1426 | sgERCC2_6 | ERCC2 | chr19 | 45867262 | + | GCAGCACGGGGTTGGCCAGG |
| 1427 | sgERCC2_7 | ERCC2 | chr19 | 45867110 | + | GCAGCCGCCTCAGGAAGCCC |
| 1428 | sgERCC2_8 | ERCC2 | chr19 | 45864863 | + | GAGTATGCAGCAGGGACCGG |
| 1429 | sgERCC2_9 | ERCC2 | chr19 | 45864803 | + | GGGTGGCAAAGTTAGCAAGG |
| 1430 | sgERCC2_10 | ERCC2 | chr19 | 45872241 | - | TTATCGGCAGGCATATCCGC |
| 1431 | sgETFDH_1 | ETFDH | chr4 | 159601738 | + | GATAAGGACAAGAGATGGGA |
| 1432 | sgETFDH_2 | ETFDH | chr4 | 159627433 | + | GGAGTACTGGGTGTATATGG |
| 1433 | sgETFDH_3 | ETFDH | chr4 | 159627825 | + | ATTGAGTATCCAAAACCCGA |
| 1434 | sgETFDH_4 | ETFDH | chr4 | 159603379 | + | GATGTTGTAATAGTTGGTGC |
| 1435 | sgETFDH_5 | ETFDH | chr4 | 159611545 | + | GATGTAGGGATACAAAAGGA |
| 1436 | sgETFDH_6 | ETFDH | chr4 | 159620204 | - | AGGTTGGCCGAATGCTAGGA |
| 1437 | sgETFDH_7 | ETFDH | chr4 | 159620250 | + | GGAGCCAGAGCTCTCAATGA |
| 1438 | sgETFDH_8 | ETFDH | chr4 | 159627791 | + | TGAACGGCTCAAGCCAGCCA |
| 1439 | sgETFDH_9 | ETFDH | chr4 | 159627981 | - | GCAGGACAGAATCGCTGCTC |
| 1440 | sgETFDH_10 | ETFDH | chr4 | 159618774 | + | TTGGACAGACATACCTATGG |
| 1441 | sgETHE1_1 | ETHE1 | chr19 | 44012195 | - | AGGGTTCACAGTGTCCACCG |
| 1442 | sgETHE1_2 | ETHE1 | chr19 | 44030754 | - | GGGTGACAGAGAGTCCCGGG |
| 1443 | sgETHE1_3 | ETHE1 | chr19 | 44015665 | + | GACGAAGGTGACACAGCCTG |
| 1444 | sgETHE1_4 | ETHE1 | chr19 | 44030767 | + | GTCACCCAGCAGGTACGTGA |
| 1445 | sgETHE1_5 | ETHE1 | chr19 | 44030424 | + | TGACAGACTGGCAGCCAGGG |
| 1446 | sgETHE1_6 | ETHE1 | chr19 | 44015650 | + | GCTGTGGTCATTCAGGACGA |
| 1447 | sgETHE1_7 | ETHE1 | chr19 | 44012178 | + | AGTCCTCTCCTCCTCCACGG |
| 1448 | sgETHE1_8 | ETHE1 | chr19 | 44012149 | + | TCACAGCTGAGGGTGAGCCG |
| 1449 | sgETHE1_9 | ETHE1 | chr19 | 44012138 | + | TGACAAACTCCTCACAGCTG |
| 1450 | sgETHE1_10 | ETHE1 | chr19 | 44030716 | - | CAGTCCTGGAAACAGCGCCT |
| 1451 | sgFA2H_1 | FA2H | chr16 | 74753050 | - | CCACCCTGCAGAGTACACGG |
| 1452 | sgFA2H_2 | FA2H | chr16 | 74752951 | + | TCATGTGGAACAGGAAGCGG |
| 1453 | sgFA2H_3 | FA2H | chr16 | 74808522 | - | GCTTCGTGCGGCACCACCCG |
| 1454 | sgFA2H_4 | FA2H | chr16 | 74773935 | - | GGAACCACGGTTCAAAGTGG |
| 1455 | sgFA2H_5 | FA2H | chr16 | 74750432 | + | GAAGACGCCGATCACCAGGG |
| 1456 | sgFA2H_6 | FA2H | chr16 | 74750311 | + | TGTGCGGCGAGCCAAAGTGC |
| 1457 | sgFA2H_7 | FA2H | chr16 | 74808439 | + | TTGGCCGAGTGCCTGTGCGG |
| 1458 | sgFA2H_8 | FA2H | chr16 | 74761171 | + | GTCTGAGTGGAAGAGGCGGA |
| 1459 | sgFA2H_9 | FA2H | chr16 | 74760182 | + | CAGCTGAGATACAGCACCAG |
| 1460 | sgFA2H_10 | FA2H | chr16 | 74760159 | - | CTACTACCGAACCTTTGCCC |
| 1461 | sgFADS1_1 | FADS1 | chr11 | 61584129 | - | GCTCAGGGTGCGAGGAGCGG |
| 1462 | sgFADS1_2 | FADS1 | chr11 | 61584180 | + | CGGGGTAGGTCCCTGAGCCG |

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|---|---|---|---|---|---|---|
| 1463 | sgFADS1_3 | FADS1 | chr11 | 61580050 | + | GGTACAGCAGGAAGAAGACA |
| 1464 | sgFADS1_4 | FADS1 | chr11 | 61579987 | + | AGGACGTCCCAAAGACCCAA |
| 1465 | sgFADS1_5 | FADS1 | chr11 | 61579954 | + | TGAGCAGCACCGCACAGAGG |
| 1466 | sgFADS1_6 | FADS1 | chr11 | 61578322 | + | CATGTGGTTCCACCAACTGG |
| 1467 | sgFADS1_7 | FADS1 | chr11 | 61572205 | + | GTAGAGAGGCAGCAAGGCTG |
| 1468 | sgFADS1_8 | FADS1 | chr11 | 61570333 | + | GCACACAAGGACTGCACCAG |
| 1469 | sgFADS1_9 | FADS1 | chr11 | 61584357 | + | AGCACCGCAGGGCAGACCGG |
| 1470 | sgFADS1_10 | FADS1 | chr11 | 61584342 | - | GTGCTGAAAACCCGGCGCGC |
| 1471 | sgFADS2_1 | FADS2 | chr11 | 61595850 | + | GTCGGCAGGCAGCATGGGGA |
| 1472 | sgFADS2_2 | FADS2 | chr11 | 61595868 | + | GAAGGGAGGGAACCAGGGCG |
| 1473 | sgFADS2_3 | FADS2 | chr11 | 61605307 | - | GCCAGTTCACCAATCAGCAG |
| 1474 | sgFADS2_4 | FADS2 | chr11 | 61607877 | - | GGAGGAGGAGGAAGAACACG |
| 1475 | sgFADS2_5 | FADS2 | chr11 | 61615629 | + | AGGGTGCCTCTGCCAACTGG |
| 1476 | sgFADS2_6 | FADS2 | chr11 | 61624934 | - | TACATGGGGATGAGCAGCGG |
| 1477 | sgFADS2_7 | FADS2 | chr11 | 61630769 | - | GTGTGACCCACACAAACCAG |
| 1478 | sgFADS2_8 | FADS2 | chr11 | 61632670 | - | GCACATAGAGACTTCACCAG |
| 1479 | sgFADS2_9 | FADS2 | chr11 | 61595948 | + | ATAACCTGCGCACCGACAGG |
| 1480 | sgFADS2_10 | FADS2 | chr11 | 61605329 | - | GTCCTGGCTGGGCTCCTCCG |
| 1481 | sgFADS3_1 | FADS3 | chr11 | 61644400 | + | GAAGCGGGCATAGAAGCTGG |
| 1482 | sgFADS3_2 | FADS3 | chr11 | 61647547 | + | GCCAGCTCTCCAATCAACAG |
| 1483 | sgFADS3_3 | FADS3 | chr11 | 61646822 | + | GCACCCAGCCAGGACCCAGG |
| 1484 | sgFADS3_4 | FADS3 | chr11 | 61646787 | + | AGAGATGGCCAGGATGAAGG |
| 1485 | sgFADS3_5 | FADS3 | chr11 | 61646772 | + | AACTGGGGTCACCTGAGAGA |
| 1486 | sgFADS3_6 | FADS3 | chr11 | 61646250 | - | GAAGTCCTGGTGGAACCACG |
| 1487 | sgFADS3_7 | FADS3 | chr11 | 61644384 | + | GGAGGTAGGATAAGAAGAAG |
| 1488 | sgFADS3_8 | FADS3 | chr11 | 61643893 | + | GTGTGATCCACACGAACCAG |
| 1489 | sgFADS3_9 | FADS3 | chr11 | 61643875 | - | ACAGATGAACCACATCCCCA |
| 1490 | sgFADS3_10 | FADS3 | chr11 | 61643411 | - | GAGACACAACTACAGCCGGG |
| 1491 | sgFBXL5_1 | FBXL5 | chr4 | 15656829 | - | GGTGGGGCTCTACTGCGACA |
| 1492 | sgFBXL5_2 | FBXL5 | chr4 | 15629645 | - | TTTTACAGAAGAGTCTGCGG |
| 1493 | sgFBXL5_3 | FBXL5 | chr4 | 15627153 | + | GTCCTTACTAAAACAACCAG |
| 1494 | sgFBXL5_4 | FBXL5 | chr4 | 15627078 | + | TGAGTGACCACAATACGCAA |
| 1495 | sgFBXL5_5 | FBXL5 | chr4 | 15656863 | - | TCTTCACCGCCCCACACTGG |
| 1496 | sgFBXL5_6 | FBXL5 | chr4 | 15656847 | - | CTGGCGGATGAAGCAGCTGG |
| 1497 | sgFBXL5_7 | FBXL5 | chr4 | 15642413 | - | TCACATGAAAGAGGAAGAGG |
| 1498 | sgFBXL5_8 | FBXL5 | chr4 | 15638275 | - | GAAGTGTCAGAACACTCCAC |
| 1499 | sgFBXL5_9 | FBXL5 | chr4 | 15638181 | - | GCAGTCAAGTAAGCATGAAA |
| 1500 | sgFBXL5_10 | FBXL5 | chr4 | 15627314 | + | AAGAAACAGGCTTAGTCCAG |
| 1501 | sgFDX1_1 | FDX1 | chr11 | 110327660 | - | GTGACAGGTTGAACAAGCCA |
| 1502 | sgFDX1_2 | FDX1 | chr11 | 110300878 | + | GCCGCTTCTGCTGTCCTCGG |
| 1503 | sgFDX1_3 | FDX1 | chr11 | 110300937 | - | GCAGGCCGCTGGATCCAGCG |
| 1504 | sgFDX1_4 | FDX1 | chr11 | 110300997 | + | GTCGCTGAGCGTGTCGGCGC |
| 1505 | sgFDX1_5 | FDX1 | chr11 | 110306577 | + | GTCCACTTTATAAACCGTGA |
| 1506 | sgFDX1_6 | FDX1 | chr11 | 110300947 | + | AGCGGCCTGCTGAGGAACCG |
| 1507 | sgFDX1_7 | FDX1 | chr11 | 110300925 | - | ATCCAGCGCGGGACCCAGCG |
| 1508 | sgFDX1_8 | FDX1 | chr11 | 110301024 | - | GCACGGCGCCCTACCTGCTC |
| 1509 | sgFDX1_9 | FDX1 | chr11 | 110306630 | + | TGATTCTCTGCTAGATGTTG |
| 1510 | sgFDX1_10 | FDX1 | chr11 | 110327640 | + | AGGTGCATGTGAGGGAACCC |
| 1511 | sgFDX1L_1 | FDX1L | chr19 | 10421539 | + | GAGGAGGCAGGAGATCCAGG |
| 1512 | sgFDX1L_2 | FDX1L | chr19 | 10426405 | - | GCTGGAGAGGAGGACGCGGG |
| 1513 | sgFDX1L_3 | FDX1L | chr19 | 10421582 | + | GCAGGTGGAGCAGGCCAGGG |
| 1514 | sgFDX1L_4 | FDX1L | chr19 | 10426614 | - | GTTCTACTGCAGGCTGCCAG |
| 1515 | sgFDX1L_5 | FDX1L | chr19 | 10426591 | - | CACCTGGTGGAACAGACCTG |
| 1516 | sgFDX1L_6 | FDX1L | chr19 | 10426653 | - | ATGGCCGCCTCCATGGCCCG |
| 1517 | sgFDX1L_7 | FDX1L | chr19 | 10426604 | - | AGGCTGCCAGGGGCACCTGG |
| 1518 | sgFDX1L_8 | FDX1L | chr19 | 10426059 | + | TACCTTCCAGGTCCACCCCG |
| 1519 | sgFDX1L_9 | FDX1L | chr19 | 10421560 | + | GGTCTTCACTCACATACACA |
| 1520 | sgFDX1L_10 | FDX1L | chr19 | 10426636 | - | CCGGGGAGGCGTGAGTGCCA |
| 1521 | sgFECH_1 | FECH | chr18 | 55247400 | - | GCTGGAGGGTCTGTCAGCCA |
| 1522 | sgFECH_2 | FECH | chr18 | 55247338 | - | GAAACAGCCCAGCATGCCCA |
| 1523 | sgFECH_3 | FECH | chr18 | 55233681 | + | GTGGTGGAGCAGCTGTACTG |

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| 1524 | sgFECH_4 | FECH | chr18 | 55253790 | + | ATCGCGGAGCAGGACGCCCG |
| 1525 | sgFECH_5 | FECH | chr18 | 55230151 | - | GACGGAAGCCCACGATGAAG |
| 1526 | sgFECH_6 | FECH | chr18 | 55222138 | + | ACAGTGGCGCTTACCTCCTG |
| 1527 | sgFECH_7 | FECH | chr18 | 55222089 | - | GCAACCCCTACCGACTGGTG |
| 1528 | sgFECH_8 | FECH | chr18 | 55221497 | - | GTACTCTCAAGTTTTAGCCA |
| 1529 | sgFECH_9 | FECH | chr18 | 55240506 | + | GGTCCAAGAAGAGTCTCAGA |
| 1530 | sgFECH_10 | FECH | chr18 | 55238715 | - | AGATTCAAGAGCAGTACCGC |
| 1531 | sgFLVCR1_1 | FLVCR1 | chr1 | 213031797 | + | GGCGCGGCCAGACGATGAGG |
| 1532 | sgFLVCR1_2 | FLVCR1 | chr1 | 213031781 | + | GGGGAGCCTGGGATATGGCG |
| 1533 | sgFLVCR1_3 | FLVCR1 | chr1 | 213031976 | - | AGGCCCGCCCAGAACTCCCG |
| 1534 | sgFLVCR1_4 | FLVCR1 | chr1 | 213032110 | - | AGGAGCACCACGAAGCGCCG |
| 1535 | sgFLVCR1_5 | FLVCR1 | chr1 | 213032246 | - | GTAGGCCAGCATGTACACCA |
| 1536 | sgFLVCR1_6 | FLVCR1 | chr1 | 213032415 | - | GGGCCACCGAGCACAAGCAC |
| 1537 | sgFLVCR1_7 | FLVCR1 | chr1 | 213061852 | - | CAAATTCAAAACCCAAAGGG |
| 1538 | sgFLVCR1_8 | FLVCR1 | chr1 | 213031853 | + | AAGGATACCTCCCGTTGCCG |
| 1539 | sgFLVCR1_9 | FLVCR1 | chr1 | 213032086 | - | GAGAGCGCCGTAAGGGGCAG |
| 1540 | sgFLVCR1_10 | FLVCR1 | chr1 | 213032513 | - | CTGATTGCCCAGCACGGCGG |
| 1541 | sgFLVCR2_1 | FLVCR2 | chr14 | 76088544 | - | CAATGATGACAAGGATGAGG |
| 1542 | sgFLVCR2_2 | FLVCR2 | chr14 | 76107323 | - | ACAGCAAACTCAAATCCCAG |
| 1543 | sgFLVCR2_3 | FLVCR2 | chr14 | 76088451 | - | TGTTGGGTACCAAAACAGGA |
| 1544 | sgFLVCR2_4 | FLVCR2 | chr14 | 76107378 | - | AGATATGTTGAGGAGGCCGG |
| 1545 | sgFLVCR2_5 | FLVCR2 | chr14 | 76107602 | - | CAAGAGTAAGGAACACACAC |
| 1546 | sgFLVCR2_6 | FLVCR2 | chr14 | 76091001 | - | GAGAGGTCAAGGCATAGCTC |
| 1547 | sgFLVCR2_7 | FLVCR2 | chr14 | 76101259 | + | GAAGTGAATGCTGGAAGAAT |
| 1548 | sgFLVCR2_8 | FLVCR2 | chr14 | 76105773 | - | CAGTGATGAACACTACCCAC |
| 1549 | sgFLVCR2_9 | FLVCR2 | chr14 | 76107568 | + | ACAACTATGGAACCAAGCCT |
| 1550 | sgFLVCR2_10 | FLVCR2 | chr14 | 76090983 | - | TCAGGGATTGGGCCCTGCTG |
| 1551 | sgFRAS1_1 | FRAS1 | chr4 | 79308550 | + | GAAGTTCTCCACATTAGCAG |
| 1552 | sgFRAS1_2 | FRAS1 | chr4 | 78979218 | + | GTATTGCCTCATCATTCCGA |
| 1553 | sgFRAS1_3 | FRAS1 | chr4 | 79166426 | - | GGAGTCCTCAAAACACACTC |
| 1554 | sgFRAS1_4 | FRAS1 | chr4 | 79173565 | - | GCACACACTACATGGAGAAG |
| 1555 | sgFRAS1_5 | FRAS1 | chr4 | 79173630 | - | TGGTGTCCACATGACAGCGG |
| 1556 | sgFRAS1_6 | FRAS1 | chr4 | 79204000 | - | GGCACTCACACACCTTGCAA |
| 1557 | sgFRAS1_7 | FRAS1 | chr4 | 79204058 | - | AGTGTGCCCACTGGACATGG |
| 1558 | sgFRAS1_8 | FRAS1 | chr4 | 79205645 | + | GGATGGTGTGTGCACAGCTG |
| 1559 | sgFRAS1_9 | FRAS1 | chr4 | 79284686 | - | GGAGATCAGCTGCACAGTGC |
| 1560 | sgFRAS1_10 | FRAS1 | chr4 | 79284767 | - | AAGGGCAGTCAGGAACACAG |
| 1561 | sgFRRS1_1 | FRRS1 | chr1 | 100214227 | - | AAAGTAACACAGTCATGCCA |
| 1562 | sgFRRS1_2 | FRRS1 | chr1 | 100194051 | - | GCAGATGGTGCAGCTAATGA |
| 1563 | sgFRRS1_3 | FRRS1 | chr1 | 100181155 | - | ATGCCGTTTATATACAGGGG |
| 1564 | sgFRRS1_4 | FRRS1 | chr1 | 100212896 | + | AATGTGAAGGAGCCAATAGG |
| 1565 | sgFRRS1_5 | FRRS1 | chr1 | 100206368 | + | ACGGGAGGTAACGTTGGCAA |
| 1566 | sgFRRS1_6 | FRRS1 | chr1 | 100178029 | + | AAGTCATCACTATACAGCCG |
| 1567 | sgFRRS1_7 | FRRS1 | chr1 | 100177992 | + | GGCCTGAAGACTGCCAGAAG |
| 1568 | sgFRRS1_8 | FRRS1 | chr1 | 100203755 | - | GAACTGTGACCCAGAGAAGG |
| 1569 | sgFRRS1_9 | FRRS1 | chr1 | 100203726 | + | TGTGAAGGACAAGAAGACAC |
| 1570 | sgFRRS1_10 | FRRS1 | chr1 | 100203648 | + | CTGATCATGAGACAATGCAA |
| 1571 | sgFRRS1L_1 | FRRS1L | chr9 | 111929560 | - | GAGCGAGGATGCGCAGACCG |
| 1572 | sgFRRS1L_2 | FRRS1L | chr9 | 111929358 | - | GCTGCTCCTGCTGCTACTGA |
| 1573 | sgFRRS1L_3 | FRRS1L | chr9 | 111911974 | + | CAGGAGGAGCAGTAGGGAAG |
| 1574 | sgFRRS1L_4 | FRRS1L | chr9 | 111909371 | - | GAGCTGAGTGCAGACACAGA |
| 1575 | sgFRRS1L_5 | FRRS1L | chr9 | 111929413 | - | ATCTGTGCGCACGGATGGCG |
| 1576 | sgFRRS1L_6 | FRRS1L | chr9 | 111903751 | - | AACCCTGCCAGAGATGAAGA |
| 1577 | sgFRRS1L_7 | FRRS1L | chr9 | 111911958 | + | TTGGCAAATGGATCCACAGG |
| 1578 | sgFRRS1L_8 | FRRS1L | chr9 | 111909418 | + | GTAGCTGAGGAAATAGTCAC |
| 1579 | sgFRRS1L_9 | FRRS1L | chr9 | 111903828 | + | GCCATTGTCATCATGGACGC |
| 1580 | sgFRRS1L_10 | FRRS1L | chr9 | 111903785 | - | TAATGTAGGCCAGTGGGCAA |
| 1581 | sgFTH1_1 | FTH1 | chr11 | 61734781 | + | CACCATGGACAGGTAAACGT |
| 1582 | sgFTH1_2 | FTH1 | chr11 | 61732834 | + | TGTTCACCTTGATATCCTGA |
| 1583 | sgFTH1_3 | FTH1 | chr11 | 61734771 | + | CGCCCGCGCTCACCATGGAC |
| 1584 | sgFTH1_4 | FTH1 | chr11 | 61732545 | - | GGAGAGCGGGCTGAATGCAA |

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|---|---|---|---|---|---|---|
| 1585 | sgFTH1_5 | FTH1 | chr11 | 61732252 | - | AGCGCCCGAATCTGGCTTGG |
| 1586 | sgFTH1_6 | FTH1 | chr11 | 61732225 | - | TCTCTTTGACAAGCACACCC |
| 1587 | sgFTH1_7 | FTH1 | chr11 | 61732276 | - | CGTGACCAACTTGCGCAAGA |
| 1588 | sgFTH1_8 | FTH1 | chr11 | 61734877 | + | CGAGGTGGACGCGGTCGTCA |
| 1589 | sgFTH1_9 | FTH1 | chr11 | 61732872 | - | ATGAAGCTGCAGAACCAACG |
| 1590 | sgFTH1_10 | FTH1 | chr11 | 61732963 | - | CTACTTTGACCGCGATGATG |
| 1591 | sgFTHL17_1 | FTHL17 | chrX | 31089906 | + | GTAGCGGAAGAAGTTCTCCA |
| 1592 | sgFTHL17_2 | FTHL17 | chrX | 31089584 | + | CCGGGGAACAAATCTTGCGC |
| 1593 | sgFTHL17_3 | FTHL17 | chrX | 31089770 | - | GGAGAGCGGGCTCGTGGCCA |
| 1594 | sgFTHL17_4 | FTHL17 | chrX | 31089707 | + | CCAGCTGGTACAGATCCAGC |
| 1595 | sgFTHL17_5 | FTHL17 | chrX | 31089515 | + | GGGCTCAAGTCTCTTTGACG |
| 1596 | sgFTHL17_6 | FTHL17 | chrX | 31089992 | - | CATCAACAGCCACATCACGC |
| 1597 | sgFTHL17_7 | FTHL17 | chrX | 31089890 | + | CCGACAGGCGCAGGAAGTAG |
| 1598 | sgFTHL17_8 | FTHL17 | chrX | 31089656 | + | GGTAGTGGCTCTCCAGGAAG |
| 1599 | sgFTHL17_9 | FTHL17 | chrX | 31089626 | - | AGTCAAGACCATCAAAGAGC |
| 1600 | sgFTHL17_10 | FTHL17 | chrX | 31089954 | + | GGCCATAGACAGGTACAGGT |
| 1601 | sgFTL_1 | FTL | chr19 | 49468856 | - | GGGACTCACCAGAGAGAGGT |
| 1602 | sgFTL_2 | FTL | chr19 | 49469916 | - | GCCACCCAGCCTGTGGAGGT |
| 1603 | sgFTL_3 | FTL | chr19 | 49469087 | + | TTGGCCGAGGAGAAGCGCGA |
| 1604 | sgFTL_4 | FTL | chr19 | 49469570 | + | AGACGCCATGAAAGCTGCCA |
| 1605 | sgFTL_5 | FTL | chr19 | 49469639 | - | GGTCCGTGCGGGCAGAACCC |
| 1606 | sgFTL_6 | FTL | chr19 | 49469044 | - | CTTCCAGAGCCACATCATCG |
| 1607 | sgFTL_7 | FTL | chr19 | 49469074 | + | CTTCTTCCGCGAATTGGCCG |
| 1608 | sgFTL_8 | FTL | chr19 | 49468785 | + | GAATTATTCCACCGACGTGG |
| 1609 | sgFTL_9 | FTL | chr19 | 49469152 | - | TGATGTCCTGGAAGAGAGCG |
| 1610 | sgFTL_10 | FTL | chr19 | 49468799 | - | GTTGACGGCTGCCTCCACGT |
| 1611 | sgFTMT_1 | FTMT | chr5 | 121187855 | - | GAAGTTCTGGCGCACCCGAG |
| 1612 | sgFTMT_2 | FTMT | chr5 | 121187877 | - | TGGCAGCCTCGGAGTCGGGG |
| 1613 | sgFTMT_3 | FTMT | chr5 | 121187701 | - | GGGCGCAGAGACGCCAGCGA |
| 1614 | sgFTMT_4 | FTMT | chr5 | 121187816 | - | GGTAGGGTCCCGGGAGGAGG |
| 1615 | sgFTMT_5 | FTMT | chr5 | 121188046 | + | ATGAGGCTGCAGAACCAGCG |
| 1616 | sgFTMT_6 | FTMT | chr5 | 121188117 | + | GGAAAGCGGGCTGCATGCCA |
| 1617 | sgFTMT_7 | FTMT | chr5 | 121187732 | + | GCTTCGCGCTCCCGCTGCGT |
| 1618 | sgFTMT_8 | FTMT | chr5 | 121187948 | - | CCGGGAGAAGTAATAGGCCA |
| 1619 | sgFTMT_9 | FTMT | chr5 | 121188096 | + | GAAGCCGGAACAGGACGACT |
| 1620 | sgFTMT_10 | FTMT | chr5 | 121188137 | - | CAAGAGTAGAGCACACTCCA |
| 1621 | sgFTO_1 | FTO | chr16 | 53860053 | - | GAGGAAGGTCTCACAAGCAG |
| 1622 | sgFTO_2 | FTO | chr16 | 53907748 | - | CGGTGGGTGGAACTAAACCG |
| 1623 | sgFTO_3 | FTO | chr16 | 53860282 | + | GAAAATGCCATACCTGAAAG |
| 1624 | sgFTO_4 | FTO | chr16 | 53860357 | + | TCTGGTGGACAGGTCAGCGG |
| 1625 | sgFTO_5 | FTO | chr16 | 53922790 | + | ACAGAAAGTGCACTGACTGG |
| 1626 | sgFTO_6 | FTO | chr16 | 53967920 | + | TAAAAGAGAGGGGCTCCCCG |
| 1627 | sgFTO_7 | FTO | chr16 | 53738099 | + | GAAGCGCACCCCGACTGCCG |
| 1628 | sgFTO_8 | FTO | chr16 | 53738120 | + | GGAACGAGAGCGCGAAGCTA |
| 1629 | sgFTO_9 | FTO | chr16 | 53860164 | + | GTATGTCTGCAGATTTCCCC |
| 1630 | sgFTO_10 | FTO | chr16 | 53860185 | - | GGATGAACCCATCCCAACCC |
| 1631 | sgFXN_1 | FXN | chr9 | 71650815 | - | TGTCGGTGCGCAGGCCACGG |
| 1632 | sgFXN_2 | FXN | chr9 | 71668080 | + | AAGACTAGCAGAGGAAACGC |
| 1633 | sgFXN_3 | FXN | chr9 | 71650857 | - | CGCGGATACTTACTGCGCGG |
| 1634 | sgFXN_4 | FXN | chr9 | 71661312 | - | AAATCTGGTTGAGGCCACGT |
| 1635 | sgFXN_5 | FXN | chr9 | 71661393 | - | GTGTTTTATCTTACCCTGGG |
| 1636 | sgFXN_6 | FXN | chr9 | 71650755 | + | CCAGGCCCAGACCCTCACCC |
| 1637 | sgFXN_7 | FXN | chr9 | 71679860 | + | GTCTTAACTGTCAAACTGGG |
| 1638 | sgFXN_8 | FXN | chr9 | 71650719 | - | CCAGGAGGCCGGCTACTGCG |
| 1639 | sgFXN_9 | FXN | chr9 | 71650734 | - | CTGGGCTGGGTGACGCCAGG |
| 1640 | sgFXN_10 | FXN | chr9 | 71661295 | + | TTTCAGAGTTCGAACCAACG |
| 1641 | sgGALT_1 | GALT | chr9 | 34649475 | - | GTGGCAGAGCGCAGGAGCGG |
| 1642 | sgGALT_2 | GALT | chr9 | 34647223 | - | CGGATGGCCCCAGGACACAG |
| 1643 | sgGALT_3 | GALT | chr9 | 34647847 | - | GCGTTACATCCGACCAGGGG |
| 1644 | sgGALT_4 | GALT | chr9 | 34648415 | - | CGGCTGTACTCCATTAGCAG |
| 1645 | sgGALT_5 | GALT | chr9 | 34648845 | - | GTAGCCGCCGCACATGCCGA |

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| 1646 | sgGALT_6 | GALT | chr9 | 34648877 | - | CTGACCATCACGCTCAGCAG |
| 1647 | sgGALT_7 | GALT | chr9 | 34649405 | + | AGGGGCTCCCACAGGATCAG |
| 1648 | sgGALT_8 | GALT | chr9 | 34647234 | + | GGCCATCCGAGCCAACGGAG |
| 1649 | sgGALT_9 | GALT | chr9 | 34648134 | - | GGGGTTAGAACAGCCCATCA |
| 1650 | sgGALT_10 | GALT | chr9 | 34649004 | - | CAAGAGCTTCTTCATGATGG |
| 1651 | sgGLRX2_1 | GLRX2 | chr1 | 193066763 | - | GAACTGGACCTGCTTGAATA |
| 1652 | sgGLRX2_2 | GLRX2 | chr1 | 193066734 | + | TGTAAAGAGCATCTTGGAAC |
| 1653 | sgGLRX2_3 | GLRX2 | chr1 | 193066825 | + | TGCCATTGTACAGTAAGAAC |
| 1654 | sgGLRX2_4 | GLRX2 | chr1 | 193066752 | + | ACTGGTTTCCATATTCAAGC |
| 1655 | sgGLRX2_5 | GLRX2 | chr1 | 193065836 | - | GAGGTGCAACTGACACTCAT |
| 1656 | sgGLRX2_6 | GLRX2 | chr1 | 193065822 | - | ACTCATAGGCTTCACAAAGA |
| 1657 | sgGLRX2_7 | GLRX2 | chr1 | 193074649 | - | GGACGCGCTCAGCTGCGAGG |
| 1658 | sgGLRX2_8 | GLRX2 | chr1 | 193074431 | - | AGGCTGGCTTGACAGGGCGG |
| 1659 | sgGLRX2_9 | GLRX2 | chr1 | 193074712 | + | CGTGTAAACATCCTTTAGAG |
| 1660 | sgGLRX2_10 | GLRX2 | chr1 | 193074455 | - | GGTTTGGAGCAGGAGCGGCT |
| 1661 | sgGLRX3_1 | GLRX3 | chr10 | 131934712 | + | GTAGCGGCCGTGGAGGAGGT |
| 1662 | sgGLRX3_2 | GLRX3 | chr10 | 131959188 | - | GAGTCAATTTCTTCAAGCGA |
| 1663 | sgGLRX3_3 | GLRX3 | chr10 | 131973332 | + | GGGAGGATTGGATATTGTGA |
| 1664 | sgGLRX3_4 | GLRX3 | chr10 | 131959149 | - | GATGTTCATTAGCGCTGGGT |
| 1665 | sgGLRX3_5 | GLRX3 | chr10 | 131964839 | + | TCAGATGAAGAGGTTCGACA |
| 1666 | sgGLRX3_6 | GLRX3 | chr10 | 131943466 | + | GATTTACAGGTCCCTCCTTG |
| 1667 | sgGLRX3_7 | GLRX3 | chr10 | 131943480 | - | CCAGAAATGGACCACAAGGA |
| 1668 | sgGLRX3_8 | GLRX3 | chr10 | 131959240 | + | ACTCCTCAAGAACCACGCTG |
| 1669 | sgGLRX3_9 | GLRX3 | chr10 | 131959255 | - | GGCAGCTTCTTACCACAGCG |
| 1670 | sgGLRX3_10 | GLRX3 | chr10 | 131964766 | + | TACAGGTTTCAGCAAGCAGA |
| 1671 | sgGLRX5_1 | GLRX5 | chr14 | 96001567 | + | GCTGGTGAAGAAGGACAAGG |
| 1672 | sgGLRX5_2 | GLRX5 | chr14 | 96001624 | + | GTGCGGCTTCAGCAACGCCG |
| 1673 | sgGLRX5_3 | GLRX5 | chr14 | 96001549 | + | GGCGGAGCAGTTGGACGCGC |
| 1674 | sgGLRX5_4 | GLRX5 | chr14 | 96001644 | - | CAGCCGCAGGATCTGCACCA |
| 1675 | sgGLRX5_5 | GLRX5 | chr14 | 96001700 | + | GACGACCCGGAGCTCCGACA |
| 1676 | sgGLRX5_6 | GLRX5 | chr14 | 96001413 | + | GCTTGCGTGCGGAGATGAGC |
| 1677 | sgGLRX5_7 | GLRX5 | chr14 | 96001591 | + | GGTCTTCCTCAAGGGGACGC |
| 1678 | sgGLRX5_8 | GLRX5 | chr14 | 96001607 | + | ACGCCGGAGCAGCCCCAGTG |
| 1679 | sgGLRX5_9 | GLRX5 | chr14 | 96001678 | + | TTACGCGGCCTACAACGTGC |
| 1680 | sgGLRX5_10 | GLRX5 | chr14 | 96001447 | - | GGAGCAGAGCCGCCGCAGCT |
| 1681 | sgGRXCR1_1 | GRXCR1 | chr4 | 42964962 | - | AGGTTGTCCGGACCACACGA |
| 1682 | sgGRXCR1_2 | GRXCR1 | chr4 | 42965117 | - | ATCAATGAACACAACAGGGA |
| 1683 | sgGRXCR1_3 | GRXCR1 | chr4 | 42895440 | + | GATGGACTAGGTGATTCCGA |
| 1684 | sgGRXCR1_4 | GRXCR1 | chr4 | 42895608 | + | GTCAAATACAAAGTGAGTGC |
| 1685 | sgGRXCR1_5 | GRXCR1 | chr4 | 42965094 | - | AAGGAGCTTCAGAAACTCGT |
| 1686 | sgGRXCR1_6 | GRXCR1 | chr4 | 42895338 | + | CGGATCGCGTCCTCTCACAG |
| 1687 | sgGRXCR1_7 | GRXCR1 | chr4 | 42895303 | + | AGCCAGAAAGTGACAGGCCA |
| 1688 | sgGRXCR1_8 | GRXCR1 | chr4 | 42895368 | + | CTGAAGGAAGTGTATGAAGA |
| 1689 | sgGRXCR1_9 | GRXCR1 | chr4 | 42895398 | - | TCAGAATCCAGAGAGCCTGA |
| 1690 | sgGRXCR1_10 | GRXCR1 | chr4 | 42895493 | + | TGATGAGAATGAGAATGACC |
| 1691 | sgGSTP1_1 | GSTP1 | chr11 | 67352646 | + | GGACATGGTGAATGACGGCG |
| 1692 | sgGSTP1_2 | GSTP1 | chr11 | 67352676 | - | GGGAGATGTATTTGCAGCGG |
| 1693 | sgGSTP1_3 | GSTP1 | chr11 | 67351600 | + | TGCAGTGCCGCCCTACACCG |
| 1694 | sgGSTP1_4 | GSTP1 | chr11 | 67351951 | - | GATCTGCCAGCAGCATGCGC |
| 1695 | sgGSTP1_5 | GSTP1 | chr11 | 67351969 | + | TCAGGGCCAGAGCTGGAAGG |
| 1696 | sgGSTP1_6 | GSTP1 | chr11 | 67351984 | + | GAAGGAGGAGGTGGTGACCG |
| 1697 | sgGSTP1_7 | GSTP1 | chr11 | 67352613 | + | CTATGGGAAGGACCAGCAGG |
| 1698 | sgGSTP1_8 | GSTP1 | chr11 | 67353652 | + | GGGAGGCAAGACCTTCATTG |
| 1699 | sgGSTP1_9 | GSTP1 | chr11 | 67351620 | - | TCGAACTGGGAAATAGACCA |
| 1700 | sgGSTP1_10 | GSTP1 | chr11 | 67352217 | - | GCGGCCCAGGTGACGCAGGA |
| 1701 | sgGUCY1A2_1 | GUCY1A2 | chr11 | 106888706 | - | GGAGACCAGCCCGGAGGAGG |
| 1702 | sgGUCY1A2_2 | GUCY1A2 | chr11 | 106810646 | + | GCAAACCCCACAATATGGTG |
| 1703 | sgGUCY1A2_3 | GUCY1A2 | chr11 | 106810596 | - | GAAGATCTATCGGCTGGATG |
| 1704 | sgGUCY1A2_4 | GUCY1A2 | chr11 | 106681006 | - | AGATGGGTTGAAGAAAAGGA |
| 1705 | sgGUCY1A2_5 | GUCY1A2 | chr11 | 106680888 | - | GTAGCCCAGCAATTATGGCA |
| 1706 | sgGUCY1A2_6 | GUCY1A2 | chr11 | 106647233 | + | CAATGGGTTTAGCATGGCAG |

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|---|---|---|---|---|---|---|
| 1707 | sgGUCY1A2_7 | GUCY1A2 | chr11 | 106647181 | - | GAAGAGGTGCTGACACCTGA |
| 1708 | sgGUCY1A2_8 | GUCY1A2 | chr11 | 106579250 | + | GGGCTGACATTGATGCGCCG |
| 1709 | sgGUCY1A2_9 | GUCY1A2 | chr11 | 106810454 | + | GGAACTTGGGAGGTTCCCTG |
| 1710 | sgGUCY1A2_10 | GUCY1A2 | chr11 | 106810444 | + | GAGGTCCGCAGGAACTTGGG |
| 1711 | sgGUCY1A3_1 | GUCY1A3 | chr4 | 156631952 | - | GATGCCGGGAAGAATCAGGG |
| 1712 | sgGUCY1A3_2 | GUCY1A3 | chr4 | 156634471 | + | TGAGCAAGCCCACCAAGCCC |
| 1713 | sgGUCY1A3_3 | GUCY1A3 | chr4 | 156631686 | + | GATTTCAGGAGTTCCAGTGG |
| 1714 | sgGUCY1A3_4 | GUCY1A3 | chr4 | 156631773 | - | GGGTGCCTCCAACCACCCCA |
| 1715 | sgGUCY1A3_5 | GUCY1A3 | chr4 | 156632121 | - | GCGAGGACTGGGGTTTGCTG |
| 1716 | sgGUCY1A3_6 | GUCY1A3 | chr4 | 156632131 | - | GGAATCACCAGCGAGGACTG |
| 1717 | sgGUCY1A3_7 | GUCY1A3 | chr4 | 156634412 | + | GAACAAGCCCGAGCTCAAGA |
| 1718 | sgGUCY1A3_8 | GUCY1A3 | chr4 | 156634542 | + | GTGAGGTTGCTCAGCAGCTG |
| 1719 | sgGUCY1A3_9 | GUCY1A3 | chr4 | 156634608 | - | AACGATGTCTGAGAAGAGCA |
| 1720 | sgGUCY1A3_10 | GUCY1A3 | chr4 | 156629425 | + | GCAGAGCAAGCAGTTGCAGC |
| 1721 | sgGUCY1B3_1 | GUCY1B3 | chr4 | 156680974 | + | GATCCGCAATTACGGCCCCG |
| 1722 | sgGUCY1B3_2 | GUCY1B3 | chr4 | 156710923 | - | GCATCAGTGCACCTAAAGGA |
| 1723 | sgGUCY1B3_3 | GUCY1B3 | chr4 | 156711022 | + | ACAGTGGCACAACAAATCCA |
| 1724 | sgGUCY1B3_4 | GUCY1B3 | chr4 | 156716516 | - | CCAGCGAGAAGACAGACAGA |
| 1725 | sgGUCY1B3_5 | GUCY1B3 | chr4 | 156696124 | + | GAGGCACAGTTAGATGAAGA |
| 1726 | sgGUCY1B3_6 | GUCY1B3 | chr4 | 156717525 | + | CAAGGAAGGATTGTTGGATG |
| 1727 | sgGUCY1B3_7 | GUCY1B3 | chr4 | 156721137 | + | ATACAAACTCACCCAAGAAC |
| 1728 | sgGUCY1B3_8 | GUCY1B3 | chr4 | 156723517 | + | CGTCTGTTGCCAATGAGCTG |
| 1729 | sgGUCY1B3_9 | GUCY1B3 | chr4 | 156725750 | + | AATAGGGATACACACTGGAG |
| 1730 | sgGUCY1B3_10 | GUCY1B3 | chr4 | 156680941 | + | CGGATTTGTGAATCACGCCC |
| 1731 | sgHAAO_1 | HAAO | chr2 | 43019655 | - | GGAGCGCCGCCTGGGAGTGA |
| 1732 | sgHAAO_2 | HAAO | chr2 | 43015698 | - | CGGAGGCCCCAACACCAGGA |
| 1733 | sgHAAO_3 | HAAO | chr2 | 43015680 | - | GAAGGACTATCACATCGAAG |
| 1734 | sgHAAO_4 | HAAO | chr2 | 43010522 | - | GGGTGCCCCACTCACCACAG |
| 1735 | sgHAAO_5 | HAAO | chr2 | 43010506 | - | ACAGAGGTTTGCCAACACCG |
| 1736 | sgHAAO_6 | HAAO | chr2 | 43019643 | - | GGGAGTGAGGGCCTGGGTGA |
| 1737 | sgHAAO_7 | HAAO | chr2 | 43019633 | - | GCCTGGGTGAAGGAGAACCG |
| 1738 | sgHAAO_8 | HAAO | chr2 | 42996959 | + | CGTGTGCTCAGAGGGAATGG |
| 1739 | sgHAAO_9 | HAAO | chr2 | 42995040 | - | TATGGGCAAGGCAGCAGCGA |
| 1740 | sgHAAO_10 | HAAO | chr2 | 43010992 | - | ACAGGTATTTTACCAGCTGG |
| 1741 | sgHAMP_1 | HAMP | chr19 | 35773529 | + | CTCCTCGCCAGCCTGACCAG |
| 1742 | sgHAMP_2 | HAMP | chr19 | 35775744 | - | TGTTGCGCTCACCATCCAGC |
| 1743 | sgHAMP_3 | HAMP | chr19 | 35773543 | - | GGAAAACAGAGCCACTGGTC |
| 1744 | sgHAMP_4 | HAMP | chr19 | 35775726 | + | GAGCTGGAGCCAGGGCCAGC |
| 1745 | sgHAMP_5 | HAMP | chr19 | 35775710 | + | CTGCAACCCCAGGACAGAGC |
| 1746 | sgHAMP_6 | HAMP | chr19 | 35773497 | - | GAGGCAAGCGGCCCAGATCT |
| 1747 | sgHAMP_7 | HAMP | chr19 | 35775884 | - | GCCGCAGCAGAAAATGCAGA |
| 1748 | sgHAMP_8 | HAMP | chr19 | 35775905 | + | GCTGTCATCGATCAAAGTGT |
| 1749 | sgHAMP_9 | HAMP | chr19 | 35775842 | + | CCATGTTCCAGAGGCGAAGG |
| 1750 | sgHAMP_10 | HAMP | chr19 | 35773519 | - | TGGCGAGGAGGAGGAGGAGC |
| 1751 | sgHBA1_1 | HBA1 | chr16 | 226759 | - | GTGCGCGCCGACCTTACCCC |
| 1752 | sgHBA1_2 | HBA1 | chr16 | 226775 | + | GCACGCTGGCGAGTATGGTG |
| 1753 | sgHBA1_3 | HBA1 | chr16 | 226942 | - | GTAGGTCTTGGTGGTGGGGA |
| 1754 | sgHBA1_4 | HBA1 | chr16 | 227000 | + | TAAGGGCCACGGCAAGAAGG |
| 1755 | sgHBA1_5 | HBA1 | chr16 | 227024 | + | CGACGCGCTGACCAACGCCG |
| 1756 | sgHBA1_6 | HBA1 | chr16 | 227093 | + | GCACGCGCACAAGCTTCGGG |
| 1757 | sgHBA1_7 | HBA1 | chr16 | 226739 | + | GACCAACGTCAAGGCCGCCT |
| 1758 | sgHBA1_8 | HBA1 | chr16 | 226749 | + | AAGGCCGCCTGGGGTAAGGT |
| 1759 | sgHBA1_9 | HBA1 | chr16 | 227068 | - | GCTCAGGGCGGACAGCGCGT |
| 1760 | sgHBA1_10 | HBA1 | chr16 | 227080 | - | CGCGTGCAGGTCGCTCAGGG |
| 1761 | sgHBA2_1 | HBA2 | chr16 | 222955 | - | GTGCGCGCCGACCTTACCCC |
| 1762 | sgHBA2_2 | HBA2 | chr16 | 222971 | + | GCACGCTGGCGAGTATGGTG |
| 1763 | sgHBA2_3 | HBA2 | chr16 | 223138 | - | GTAGGTCTTGGTGGTGGGGA |
| 1764 | sgHBA2_4 | HBA2 | chr16 | 223196 | + | TAAGGGCCACGGCAAGAAGG |
| 1765 | sgHBA2_5 | HBA2 | chr16 | 223220 | + | CGACGCGCTGACCAACGCCG |
| 1766 | sgHBA2_6 | HBA2 | chr16 | 223289 | + | GCACGCGCACAAGCTTCGGG |
| 1767 | sgHBA2_7 | HBA2 | chr16 | 222935 | + | GACCAACGTCAAGGCCGCCT |

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|---|---|---|---|---|---|---|
| 1768 | sgHBA2_8 | HBA2 | chr16 | 222945 | + | AAGGCCGCCTGGGGTAAGGT |
| 1769 | sgHBA2_9 | HBA2 | chr16 | 223264 | - | GCTCAGGGCGGACAGCGCGT |
| 1770 | sgHBA2_10 | HBA2 | chr16 | 223276 | - | CGCGTGCAGGTCGCTCAGGG |
| 1771 | sgHBB_1 | HBB | chr11 | 5248207 | - | AGTCTGCCGTTACTGCCCTG |
| 1772 | sgHBB_2 | HBB | chr11 | 5248181 | - | AAGGTGAACGTGGATGAAGT |
| 1773 | sgHBB_3 | HBB | chr11 | 5247840 | + | ACAGTGCAGCTCACTCAGTG |
| 1774 | sgHBB_4 | HBB | chr11 | 5248191 | - | CCTGTGGGGCAAGGTGAACG |
| 1775 | sgHBB_5 | HBB | chr11 | 5247857 | + | GTGTGGCAAAGGTGCCCTTG |
| 1776 | sgHBB_6 | HBB | chr11 | 5248022 | - | TCCCACCCTTAGGCTGCTGG |
| 1777 | sgHBB_7 | HBB | chr11 | 5246869 | - | GGCTGCCTATCAGAAAGTGG |
| 1778 | sgHBB_8 | HBB | chr11 | 5246941 | - | ACAGCTCCTGGGCAACGTGC |
| 1779 | sgHBB_9 | HBB | chr11 | 5246890 | - | AGAATTCACCCCACCAGTGC |
| 1780 | sgHBB_10 | HBB | chr11 | 5246879 | + | ATAGGCAGCCTGCACTGGTG |
| 1781 | sgHBD_1 | HBD | chr11 | 5255593 | - | AAAGTGAACGTGGATGCAGT |
| 1782 | sgHBD_2 | HBD | chr11 | 5255619 | - | AGACTGCTGTCAATGCCCTG |
| 1783 | sgHBD_3 | HBD | chr11 | 5255436 | - | TCCTACCCTCAGATTACTGG |
| 1784 | sgHBD_4 | HBD | chr11 | 5255603 | - | CCTGTGGGGCAAAGTGAACG |
| 1785 | sgHBD_5 | HBD | chr11 | 5255337 | - | GGTGAAGGCTCATGGCAAGA |
| 1786 | sgHBD_6 | HBD | chr11 | 5255425 | - | GATTACTGGTGGTCTACCCT |
| 1787 | sgHBD_7 | HBD | chr11 | 5254307 | - | GCAGCTCTTGGGCAATGTGC |
| 1788 | sgHBD_8 | HBD | chr11 | 5254277 | - | GCTGGCCCGCAACTTTGGCA |
| 1789 | sgHBD_9 | HBD | chr11 | 5254256 | - | GGAATTCACCCCACAAATGC |
| 1790 | sgHBD_10 | HBD | chr11 | 5254238 | - | GCAGGCTGCCTATCAGAAGG |
| 1791 | sgHBE1_1 | HBE1 | chr11 | 5291054 | - | GAGCAAGATGAATGTGGAAG |
| 1792 | sgHBE1_2 | HBE1 | chr11 | 5290881 | + | GGGTCCAGGGGTAAACAACG |
| 1793 | sgHBE1_3 | HBE1 | chr11 | 5290723 | + | CAGCTCACTCAGCTTAGCAA |
| 1794 | sgHBE1_4 | HBE1 | chr11 | 5291031 | - | CTGGAGGTGAAGCCTTGGGC |
| 1795 | sgHBE1_5 | HBE1 | chr11 | 5291096 | - | GCATTTTACTGCTGAGGAGA |
| 1796 | sgHBE1_6 | HBE1 | chr11 | 5291076 | - | AGGCTGCCGTCACTAGCCTG |
| 1797 | sgHBE1_7 | HBE1 | chr11 | 5290788 | + | AAGTCAGCACCTTCTTGCCA |
| 1798 | sgHBE1_8 | HBE1 | chr11 | 5290816 | + | GACCTTGGGGTTGCCCAGGA |
| 1799 | sgHBE1_9 | HBE1 | chr11 | 5290800 | - | GGTCAAGGCCCATGGCAAGA |
| 1800 | sgHBE1_10 | HBE1 | chr11 | 5291016 | + | AACCAATGCTTACCTGCCCA |
| 1801 | sgHBG1_1 | HBG1 | chr11 | 5270667 | + | GAGATCATCCAGGTGCTTTG |
| 1802 | sgHBG1_2 | HBG1 | chr11 | 5269621 | - | GCAGAAGATGGTGACTGCAG |
| 1803 | sgHBG1_3 | HBG1 | chr11 | 5270679 | + | GTGCTTTGTGGCATCTCCCA |
| 1804 | sgHBG1_4 | HBG1 | chr11 | 5270945 | - | CTGGAGGAGAAACCCTGGGA |
| 1805 | sgHBG1_5 | HBG1 | chr11 | 5270736 | + | GGGGTTGCCCATGATGGCAG |
| 1806 | sgHBG1_6 | HBG1 | chr11 | 5270961 | - | GTGAATGTGGAAGATGCTGG |
| 1807 | sgHBG1_7 | HBG1 | chr11 | 5270775 | + | AAAGCTGTCAAAGAACCTCT |
| 1808 | sgHBG1_8 | HBG1 | chr11 | 5271016 | - | CATGGGTCATTTCACAGAGG |
| 1809 | sgHBG1_9 | HBG1 | chr11 | 5270930 | + | CACCAGAGCCTACCTTCCCA |
| 1810 | sgHBG1_10 | HBG1 | chr11 | 5270990 | - | AGGCTACTATCACAAGCCTG |
| 1811 | sgHBG2_1 | HBG2 | chr11 | 5274539 | - | GCAGAAGATGGTGACTGGAG |
| 1812 | sgHBG2_2 | HBG2 | chr11 | 5275603 | + | GTGCTTTATGGCATCTCCCA |
| 1813 | sgHBG2_3 | HBG2 | chr11 | 5275869 | - | CTGGAGGAGAAACCCTGGGA |
| 1814 | sgHBG2_4 | HBG2 | chr11 | 5275660 | + | GGGGTTGCCCATGATGGCAG |
| 1815 | sgHBG2_5 | HBG2 | chr11 | 5275885 | - | GTGAATGTGGAAGATGCTGG |
| 1816 | sgHBG2_6 | HBG2 | chr11 | 5275699 | + | AAAGCTGTCAAAGAACCTCT |
| 1817 | sgHBG2_7 | HBG2 | chr11 | 5275590 | - | AAAGCACCTGGATGATCTCA |
| 1818 | sgHBG2_8 | HBG2 | chr11 | 5275940 | - | CATGGGTCATTTCACAGAGG |
| 1819 | sgHBG2_9 | HBG2 | chr11 | 5275854 | + | CACCAGAGCCTACCTTCCCA |
| 1820 | sgHBG2_10 | HBG2 | chr11 | 5275914 | - | AGGCTACTATCACAAGCCTG |
| 1821 | sgHBM_1 | HBM | chr16 | 216011 | + | GGAGCGCGCCCAAATCGCGC |
| 1822 | sgHBM_2 | HBM | chr16 | 216328 | + | GCGACGCAGCTGCTGAGCCA |
| 1823 | sgHBM_3 | HBM | chr16 | 216293 | - | CAGGTGCGGGAAGTAGACCT |
| 1824 | sgHBM_4 | HBM | chr16 | 216053 | + | CCACGAGGCGCAATTCGGGG |
| 1825 | sgHBM_5 | HBM | chr16 | 216351 | + | GCAGCGCATGCTGGCGGCTG |
| 1826 | sgHBM_6 | HBM | chr16 | 216464 | - | GAAAGGCCTCACCGGAAAGT |
| 1827 | sgHBM_7 | HBM | chr16 | 216038 | + | GGACCTGATTGCGGGCCACG |
| 1828 | sgHBM_8 | HBM | chr16 | 216421 | - | AGCGCGTGCAGGTCCGCCAG |

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|---|---|---|---|---|---|---|
| 1829 | sgHBM_9 | HBM | chr16 | 215998 | - | GCGCTCCTGGGCGCTGAGCA |
| 1830 | sgHBM_10 | HBM | chr16 | 216067 | + | TCGGGGCGGAGCTGCTGCTC |
| 1831 | sgHBQ1_1 | HBQ1 | chr16 | 230531 | + | AAGAAGCTGGGCAGCAACGT |
| 1832 | sgHBQ1_2 | HBQ1 | chr16 | 230685 | - | GGAGAAGTAGGTCTTCGTGG |
| 1833 | sgHBQ1_3 | HBQ1 | chr16 | 230827 | - | GCAGCTGGCACGCGTGCAGG |
| 1834 | sgHBQ1_4 | HBQ1 | chr16 | 230706 | - | GCCGGGGCTCAGGTCCAGGT |
| 1835 | sgHBQ1_5 | HBQ1 | chr16 | 230740 | + | AGCCCACGGCCAGAAGGTGG |
| 1836 | sgHBQ1_6 | HBQ1 | chr16 | 230862 | - | GCAGCCGCTCACCTGGAAGC |
| 1837 | sgHBQ1_7 | HBQ1 | chr16 | 230548 | + | CGTCGGCGTCTACACGACAG |
| 1838 | sgHBQ1_8 | HBQ1 | chr16 | 230670 | - | CGTGGCGGGGAAAGCCAGGA |
| 1839 | sgHBQ1_9 | HBQ1 | chr16 | 230817 | - | CGCGTGCAGGTGGCTCAGCG |
| 1840 | sgHBQ1_10 | HBQ1 | chr16 | 230559 | + | ACACGACAGAGGCCCTGGAA |
| 1841 | sgHBZ_1 | HBZ | chr16 | 202910 | + | TGTCTCTGACCAAGACTGAG |
| 1842 | sgHBZ_2 | HBZ | chr16 | 202922 | - | AATGATGGTCCTCTCAGTCT |
| 1843 | sgHBZ_3 | HBZ | chr16 | 204344 | - | CGATAGGAACTTGTCCCAGG |
| 1844 | sgHBZ_4 | HBZ | chr16 | 202950 | + | GTGGGCCAAGATCTCCACGC |
| 1845 | sgHBZ_5 | HBZ | chr16 | 204009 | + | AAGAGCATCGACGACATCGG |
| 1846 | sgHBZ_6 | HBZ | chr16 | 202937 | - | GGCCCACATGGACACAATGA |
| 1847 | sgHBZ_7 | HBZ | chr16 | 204038 | - | GCAGCTCGCTCAGCTTGGAC |
| 1848 | sgHBZ_8 | HBZ | chr16 | 204071 | - | AGTTGACCGGGTCCACGCGC |
| 1849 | sgHBZ_9 | HBZ | chr16 | 202982 | + | TCGGCACCGAGACTCTGGAG |
| 1850 | sgHBZ_10 | HBZ | chr16 | 203906 | - | AGTAGGTCTTGGTCTGCGGG |
| 1851 | sgHEBP1_1 | HEBP1 | chr12 | 13142247 | - | TCTACGGGAAGCAATGCCCA |
| 1852 | sgHEBP1_2 | HEBP1 | chr12 | 13140107 | - | GTTAAGATTGAGGAACGGGA |
| 1853 | sgHEBP1_3 | HEBP1 | chr12 | 13142315 | - | GAAGAAAGGGCCTGTGAAGG |
| 1854 | sgHEBP1_4 | HEBP1 | chr12 | 13140258 | - | TGTGTTTTCAGGAATTGGGA |
| 1855 | sgHEBP1_5 | HEBP1 | chr12 | 13153004 | - | TGTTCGGAAGCGTAGAGACG |
| 1856 | sgHEBP1_6 | HEBP1 | chr12 | 13152981 | - | CCTTGGCAGGTCCTAAGCAA |
| 1857 | sgHEBP1_7 | HEBP1 | chr12 | 13140201 | + | GCAGAGAGCCATCTTCATTG |
| 1858 | sgHEBP1_8 | HEBP1 | chr12 | 13142277 | - | AGAAGTGACAGATAAGCCTG |
| 1859 | sgHEBP1_9 | HEBP1 | chr12 | 13140214 | + | TTCATTGGGGAACACAGCAA |
| 1860 | sgHEBP1_10 | HEBP1 | chr12 | 13140149 | + | GGGTCGCTTTGAAATTGGTT |
| 1861 | sgHEBP2_1 | HEBP2 | chr6 | 138726317 | + | CAAGTGGGTCAGCACGTCCG |
| 1862 | sgHEBP2_2 | HEBP2 | chr6 | 138725634 | - | TGGCTGGAGCGGCTCGGCCA |
| 1863 | sgHEBP2_3 | HEBP2 | chr6 | 138725705 | + | TGGAAGGCCCCGGAGGACGC |
| 1864 | sgHEBP2_4 | HEBP2 | chr6 | 138727189 | - | AGAGGGAATATACAGGGAAA |
| 1865 | sgHEBP2_5 | HEBP2 | chr6 | 138727227 | - | TCTGACTCTAAAGGCCTGGG |
| 1866 | sgHEBP2_6 | HEBP2 | chr6 | 138726301 | + | GACACTATGGACCAGCCAAG |
| 1867 | sgHEBP2_7 | HEBP2 | chr6 | 138725685 | + | AAGCTGTGGAGACGCCGGGC |
| 1868 | sgHEBP2_8 | HEBP2 | chr6 | 138727134 | + | GTGACAAGCTACGTGGAGCC |
| 1869 | sgHEBP2_9 | HEBP2 | chr6 | 138727210 | + | AACAGCAATTTGATCCACCC |
| 1870 | sgHEBP2_10 | HEBP2 | chr6 | 138726288 | + | AGTTATGAGATCCGACACTA |
| 1871 | sgHERC2_1 | HERC2 | chr15 | 28508195 | - | GATGTGGTCAAAGTCCGCTG |
| 1872 | sgHERC2_2 | HERC2 | chr15 | 28501376 | - | GAACAGCCTGAAGCAGACGG |
| 1873 | sgHERC2_3 | HERC2 | chr15 | 28491921 | - | CAGCTGGCGGCACTTCGCGG |
| 1874 | sgHERC2_4 | HERC2 | chr15 | 28413659 | + | GGGGCCGCCGAGGAGAACGA |
| 1875 | sgHERC2_5 | HERC2 | chr15 | 28377368 | + | AGGCGATGTCAACCACACGG |
| 1876 | sgHERC2_6 | HERC2 | chr15 | 28369211 | + | AGAGTGTCGAACCCAACAGA |
| 1877 | sgHERC2_7 | HERC2 | chr15 | 28366495 | + | GATGCGGTTCAGCTCCACGA |
| 1878 | sgHERC2_8 | HERC2 | chr15 | 28361899 | - | TGATCGTGACACCCAACGGG |
| 1879 | sgHERC2_9 | HERC2 | chr15 | 28544550 | - | GGAGAGCTCCCTCCTAGAAA |
| 1880 | sgHERC2_10 | HERC2 | chr15 | 28525336 | + | GAGTCGCAGGGCTGAGAGGG |
| 1881 | sgHGD_1 | HGD | chr3 | 120365173 | - | GATGTCTTTGAGGAGACCAG |
| 1882 | sgHGD_2 | HGD | chr3 | 120363218 | - | GAGGATCGCCAAGTACCAGG |
| 1883 | sgHGD_3 | HGD | chr3 | 120352004 | - | GCACCTGAGAGGATTGCCGA |
| 1884 | sgHGD_4 | HGD | chr3 | 120393808 | + | AGATTGTAGGGGCAGACCTG |
| 1885 | sgHGD_5 | HGD | chr3 | 120393797 | + | GCTCAGCATAGAGATTGTAG |
| 1886 | sgHGD_6 | HGD | chr3 | 120389338 | + | AAGGGCTTGTGAGAAACTGA |
| 1887 | sgHGD_7 | HGD | chr3 | 120369625 | + | TCTCCATGGAGGTATTGCAG |
| 1888 | sgHGD_8 | HGD | chr3 | 120363248 | + | ATGGGTATCAAGAAATCACG |
| 1889 | sgHGD_9 | HGD | chr3 | 120363229 | + | GCGATCCTCATACCAGGCAA |

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|---|---|---|---|---|---|---|
| 1890 | sgHGD_10 | HGD | chr3 | 120357368 | + | CAGCAATGGCCACTCCAGGG |
| 1891 | sgHIF1AN_1 | HIF1AN | chr10 | 102305777 | - | GGATGTAAAGAACATCACCA |
| 1892 | sgHIF1AN_2 | HIF1AN | chr10 | 102295845 | - | GGGTCGCTCTGACTCAGACG |
| 1893 | sgHIF1AN_3 | HIF1AN | chr10 | 102296387 | + | CAGGATATACAGCAGCGAGG |
| 1894 | sgHIF1AN_4 | HIF1AN | chr10 | 102300403 | + | GCAAACGCTCAATGACACTG |
| 1895 | sgHIF1AN_5 | HIF1AN | chr10 | 102296319 | + | ATTTCCAGAACTTTAAGCCG |
| 1896 | sgHIF1AN_6 | HIF1AN | chr10 | 102300479 | + | CAACAGGGAAAGCGTGGCTG |
| 1897 | sgHIF1AN_7 | HIF1AN | chr10 | 102304790 | - | GGCACTCGAACTGATCCGGA |
| 1898 | sgHIF1AN_8 | HIF1AN | chr10 | 102306971 | + | GAAGATGCTTGGAGAGGCCT |
| 1899 | sgHIF1AN_9 | HIF1AN | chr10 | 102295747 | - | CCGGGGCTCTCCAGAGCCAG |
| 1900 | sgHIF1AN_10 | HIF1AN | chr10 | 102304811 | - | GATGAACAGGGTATGGGTAG |
| 1901 | sgHMOX1_1 | HMOX1 | chr22 | 35779106 | - | AGGGCCTCTGACAAATCCTG |
| 1902 | sgHMOX1_2 | HMOX1 | chr22 | 35782875 | + | TGTGAAGCGGCTCCACGAGG |
| 1903 | sgHMOX1_3 | HMOX1 | chr22 | 35782977 | + | AAAGATTGCCCAGAAAGCCC |
| 1904 | sgHMOX1_4 | HMOX1 | chr22 | 35782998 | + | GGACCTGCCCAGCTCTGGCG |
| 1905 | sgHMOX1_5 | HMOX1 | chr22 | 35783039 | - | GGCACTGGCAATGTTGGGGA |
| 1906 | sgHMOX1_6 | HMOX1 | chr22 | 35779177 | + | GAGGAACTTTCAGAAGGGCC |
| 1907 | sgHMOX1_7 | HMOX1 | chr22 | 35782817 | - | CCAGCGGGGCCCGTACCAGA |
| 1908 | sgHMOX1_8 | HMOX1 | chr22 | 35782831 | - | GGGATGACCTCCTGCCAGCG |
| 1909 | sgHMOX1_9 | HMOX1 | chr22 | 35782928 | - | CAGGTAGCGGGTGTAGGCGT |
| 1910 | sgHMOX1_10 | HMOX1 | chr22 | 35782941 | - | CAGACAGGTCACCCAGGTAG |
| 1911 | sgHMOX2_1 | HMOX2 | chr16 | 4557724 | - | GTATGTGAAGTAAAGTGCCG |
| 1912 | sgHMOX2_2 | HMOX2 | chr16 | 4557737 | + | CACATACTCAGCCCTCGAGG |
| 1913 | sgHMOX2_3 | HMOX2 | chr16 | 4557790 | - | GGGGAAGTACAAAGGGGCAA |
| 1914 | sgHMOX2_4 | HMOX2 | chr16 | 4557827 | + | GGAGGCGCTGACCAAGGACA |
| 1915 | sgHMOX2_5 | HMOX2 | chr16 | 4557875 | + | GGAGCAGGTGCAGTGCCCCA |
| 1916 | sgHMOX2_6 | HMOX2 | chr16 | 4557938 | + | GAACGAGCCGGAGCTACTGG |
| 1917 | sgHMOX2_7 | HMOX2 | chr16 | 4555533 | + | CGGAAGTGGAAACCTCAGAG |
| 1918 | sgHMOX2_8 | HMOX2 | chr16 | 4557948 | - | GCATGGGCCACCAGTAGCTC |
| 1919 | sgHMOX2_9 | HMOX2 | chr16 | 4558029 | + | GCACTGAAACTCCCCAGCAC |
| 1920 | sgHMOX2_10 | HMOX2 | chr16 | 4558141 | + | TGAACATGAAGACCAAAGAG |
| 1921 | sgHPD_1 | HPD | chr12 | 122287672 | - | GGACACCACACACACCCTGG |
| 1922 | sgHPD_2 | HPD | chr12 | 122294256 | - | GAAGGACATTGCGTTCGAGG |
| 1923 | sgHPD_3 | HPD | chr12 | 122285077 | + | CATCCACGGACCAGAAGCGG |
| 1924 | sgHPD_4 | HPD | chr12 | 122284821 | - | GGAATATGTGGACTATAACG |
| 1925 | sgHPD_5 | HPD | chr12 | 122281618 | - | GGAGAACATTGATGCCCTGG |
| 1926 | sgHPD_6 | HPD | chr12 | 122295263 | - | GGAGACCGGTTCCCGGGAGG |
| 1927 | sgHPD_7 | HPD | chr12 | 122295236 | - | CCATGTAATCAAACAAGGGA |
| 1928 | sgHPD_8 | HPD | chr12 | 122294491 | - | GCGCTCAACCCCTGGAACAA |
| 1929 | sgHPD_9 | HPD | chr12 | 122294480 | + | GCACCTCACCTTTGTTCCAG |
| 1930 | sgHPD_10 | HPD | chr12 | 122294274 | - | GAAACACGGTGACGGAGTGA |
| 1931 | sgHPDL_1 | HPDL | chr1 | 45792834 | - | GATGTGGCACAAACGAAGGG |
| 1932 | sgHPDL_2 | HPDL | chr1 | 45793159 | + | GGGTGCCGCCACTTACGCCG |
| 1933 | sgHPDL_3 | HPDL | chr1 | 45793499 | - | GACTCAGCCAGAACAAGAGT |
| 1934 | sgHPDL_4 | HPDL | chr1 | 45793531 | + | GACGACACGACAGGACCAGG |
| 1935 | sgHPDL_5 | HPDL | chr1 | 45793603 | + | GTATACGCCTAACATTGTGG |
| 1936 | sgHPDL_6 | HPDL | chr1 | 45793860 | - | GTTGCCCTGACCAAAGCCAG |
| 1937 | sgHPDL_7 | HPDL | chr1 | 45792947 | + | CGGCAGCTAGCCCTGCGCAG |
| 1938 | sgHPDL_8 | HPDL | chr1 | 45793050 | - | GAAGCACAGGTTTGTGGCGC |
| 1939 | sgHPDL_9 | HPDL | chr1 | 45793344 | - | GTGGAACCAGCGCAAAAGTG |
| 1940 | sgHPDL_10 | HPDL | chr1 | 45793363 | - | GGCAAAAGCCCAGGCAGTCG |
| 1941 | sgHPX_1 | HPX | chr11 | 6458709 | - | GGTGCCTCCCAGGTACCCGC |
| 1942 | sgHPX_2 | HPX | chr11 | 6458690 | + | AAGTAGTCTCGGACATCCCG |
| 1943 | sgHPX_3 | HPX | chr11 | 6459624 | - | GCAGCTGTGGAATGTCACCG |
| 1944 | sgHPX_4 | HPX | chr11 | 6458779 | + | GTAGCGGCCCAGCCATCTCA |
| 1945 | sgHPX_5 | HPX | chr11 | 6462149 | + | GCTCCACAACCCCAGTGCAA |
| 1946 | sgHPX_6 | HPX | chr11 | 6461713 | + | GGTTCCATTGTCATCCAGGG |
| 1947 | sgHPX_7 | HPX | chr11 | 6461485 | - | GGAAGAGTCACAAATGGGAC |
| 1948 | sgHPX_8 | HPX | chr11 | 6461442 | - | GAAGAATTTCCCCAGCCCTG |
| 1949 | sgHPX_9 | HPX | chr11 | 6458856 | + | CCAAGTCCCAGAACCACTCG |
| 1950 | sgHPX_10 | HPX | chr11 | 6458804 | + | GAGGAGCAGTTCCCAACAGC |

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|---|---|---|---|---|---|---|
| 1951 | sgHR_1 | HR | chr8 | 21986390 | - | GCAGCAAAGAGGGACTGCGC |
| 1952 | sgHR_2 | HR | chr8 | 21984910 | - | GAAGTGCCAGGAGGGCCTGG |
| 1953 | sgHR_3 | HR | chr8 | 21983097 | - | GCCACTCTCAGCAAGTGCGG |
| 1954 | sgHR_4 | HR | chr8 | 21986659 | - | GAGTACGCCCAGCTTCCTGA |
| 1955 | sgHR_5 | HR | chr8 | 21986544 | + | GCAGGCTCTCCCAGGCACAG |
| 1956 | sgHR_6 | HR | chr8 | 21986455 | - | GGACATGCTCCCACTTGTGG |
| 1957 | sgHR_7 | HR | chr8 | 21986328 | - | CCAGCGTGCCCACCTCGCTG |
| 1958 | sgHR_8 | HR | chr8 | 21986116 | - | GCACCCCTGGGTATACTCCG |
| 1959 | sgHR_9 | HR | chr8 | 21985037 | - | GGAACCTTGGGTACCAGCTG |
| 1960 | sgHR_10 | HR | chr8 | 21984967 | + | AGGATGAACAGCAGCCCCGC |
| 1961 | sgHRG_1 | HRG | chr3 | 186383932 | + | ATCAATAAAAGGCGACGGGA |
| 1962 | sgHRG_2 | HRG | chr3 | 186383954 | + | GCTACCTTTTCCAATTGCTG |
| 1963 | sgHRG_3 | HRG | chr3 | 186386814 | - | GATGGACGTCTGGAATCAGG |
| 1964 | sgHRG_4 | HRG | chr3 | 186389541 | - | GATTCGGTCCACTCTGAAAG |
| 1965 | sgHRG_5 | HRG | chr3 | 186389500 | + | AGCCCTTGAGAAGTACAAAG |
| 1966 | sgHRG_6 | HRG | chr3 | 186390563 | + | CCATCTGTTCTAGAGAGGAG |
| 1967 | sgHRG_7 | HRG | chr3 | 186390584 | + | GGAAGGAACTGGTTACTTCG |
| 1968 | sgHRG_8 | HRG | chr3 | 186383885 | - | CTCAACAGCACTGCAGTCAG |
| 1969 | sgHRG_9 | HRG | chr3 | 186392904 | + | GTTCTATGATGTAGAAGCCT |
| 1970 | sgHRG_10 | HRG | chr3 | 186383982 | + | TGATGCCCACTTGGACAGAG |
| 1971 | sgHSPBAP1_1 | HSPBAP1 | chr3 | 122496570 | - | GGGATGAAAAGCATGAGCAC |
| 1972 | sgHSPBAP1_2 | HSPBAP1 | chr3 | 122459852 | - | AGCCTGGTTAAACCCCACTG |
| 1973 | sgHSPBAP1_3 | HSPBAP1 | chr3 | 122474114 | - | CATGCGGTTACACTGAGCCC |
| 1974 | sgHSPBAP1_4 | HSPBAP1 | chr3 | 122459942 | - | GGAAGAGGATCACCTAGCCC |
| 1975 | sgHSPBAP1_5 | HSPBAP1 | chr3 | 122512492 | + | GATCACAGGAGTGGTCGCCT |
| 1976 | sgHSPBAP1_6 | HSPBAP1 | chr3 | 122487601 | + | CATAAGCCCAGAACTTGGAA |
| 1977 | sgHSPBAP1_7 | HSPBAP1 | chr3 | 122478151 | - | ATGGACAGGAAAGTACATTG |
| 1978 | sgHSPBAP1_8 | HSPBAP1 | chr3 | 122512478 | - | GTGATCGTTGCGGCTGGGGC |
| 1979 | sgHSPBAP1_9 | HSPBAP1 | chr3 | 122496625 | - | GAATGCTAAATACCTTTCGC |
| 1980 | sgHSPBAP1_10 | HSPBAP1 | chr3 | 122478165 | - | GTTTCCTGGAAGAAATGGAC |
| 1981 | sgIDO1_1 | IDO1 | chr8 | 39775468 | + | GCTTCGAGAAAGAGTTGAGA |
| 1982 | sgIDO1_2 | IDO1 | chr8 | 39775666 | + | AGTTCTGGGATGCATCACCA |
| 1983 | sgIDO1_3 | IDO1 | chr8 | 39775686 | - | TTTGCCCCACACATATGCCA |
| 1984 | sgIDO1_4 | IDO1 | chr8 | 39782784 | + | AGGGTTCTGGGAAGACCCAA |
| 1985 | sgIDO1_5 | IDO1 | chr8 | 39782796 | + | AGACCCAAAGGAGTTTGCAG |
| 1986 | sgIDO1_6 | IDO1 | chr8 | 39771435 | + | TACAAGAATGGCACACGCTA |
| 1987 | sgIDO1_7 | IDO1 | chr8 | 39782866 | + | GGCATCCAGCAGACTGCTGG |
| 1988 | sgIDO1_8 | IDO1 | chr8 | 39781008 | + | GGCAATGCAAATGCAAGAAC |
| 1989 | sgIDO1_9 | IDO1 | chr8 | 39782758 | - | ACCAGACCGTCTGATAGCTG |
| 1990 | sgIDO1_10 | IDO1 | chr8 | 39776402 | + | GGTTTATGCAGACTGTGTCT |
| 1991 | sgINPPL1_1 | INPPL1 | chr11 | 71939521 | - | GAGGCATCCCGGTCATCCGG |
| 1992 | sgINPPL1_2 | INPPL1 | chr11 | 71936087 | - | CAGGTCGCGGTGGTACCAGG |
| 1993 | sgINPPL1_3 | INPPL1 | chr11 | 71936168 | + | GAGACAGCGAGAGCGTGGCG |
| 1994 | sgINPPL1_4 | INPPL1 | chr11 | 71936195 | - | TCACAGGACGCAGAGCGCGA |
| 1995 | sgINPPL1_5 | INPPL1 | chr11 | 71939466 | - | GCAGGGCGCACACAAGGCCC |
| 1996 | sgINPPL1_6 | INPPL1 | chr11 | 71939757 | + | ACCCCTGCCCACAGATGGGG |
| 1997 | sgINPPL1_7 | INPPL1 | chr11 | 71939851 | - | GGAGTCTCAGGAGCTGGCAG |
| 1998 | sgINPPL1_8 | INPPL1 | chr11 | 71940192 | + | GACCTGGAAGCTGTGAGGGG |
| 1999 | sgINPPL1_9 | INPPL1 | chr11 | 71941266 | + | GAGACAGCGGGACTCCCAGG |
| 2000 | sgINPPL1_10 | INPPL1 | chr11 | 71941410 | - | GCTGGGACTTAATGAGCTGG |
| 2001 | sgIREB2_1 | IREB2 | chr15 | 78758623 | + | AATGCACCAAATCCTGGAGG |
| 2002 | sgIREB2_2 | IREB2 | chr15 | 78764122 | - | TGAGCCATTCCAGTTCCAGG |
| 2003 | sgIREB2_3 | IREB2 | chr15 | 78778144 | - | GTAATACTCCACTTGAACTG |
| 2004 | sgIREB2_4 | IREB2 | chr15 | 78780615 | - | GCATAAGCTACCACTAAGGG |
| 2005 | sgIREB2_5 | IREB2 | chr15 | 78782759 | + | CACAGATGGGGAATAAACGG |
| 2006 | sgIREB2_6 | IREB2 | chr15 | 78786260 | - | CGTAAGAGTTGAATTCACGA |
| 2007 | sgIREB2_7 | IREB2 | chr15 | 78755299 | + | GCTGCTGTACGAAATTGTGA |
| 2008 | sgIREB2_8 | IREB2 | chr15 | 78757590 | + | TAGTGGAATACCAGCAATGG |
| 2009 | sgIREB2_9 | IREB2 | chr15 | 78757630 | + | GAGGCAGTGAAAACTCTTGG |
| 2010 | sgIREB2_10 | IREB2 | chr15 | 78758707 | + | AGAGGCCAGACTACCTGCCG |
| 2011 | sgIRG1_1 | IRG1 | chr13 | 77526656 | - | GGTGTCCCACTTTCAAGCCA |

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|---|---|---|---|---|---|---|
| 2012 | sgIRG1_2 | IRG1 | chr13 | 77529497 | - | AAGGACAGCCCCAGAAGGGT |
| 2013 | sgIRG1_3 | IRG1 | chr13 | 77526646 | - | TTTCAAGCCATGGATTGCTG |
| 2014 | sgIRG1_4 | IRG1 | chr13 | 77527757 | - | TGGCTGACCCCAAACAGTGC |
| 2015 | sgIRG1_5 | IRG1 | chr13 | 77526636 | + | AGCTTTGCCACAGCAATCCA |
| 2016 | sgIRG1_6 | IRG1 | chr13 | 77526748 | - | TATGTGAAACACTTCCGTAG |
| 2017 | sgIRG1_7 | IRG1 | chr13 | 77529461 | + | CCATGGATTTTGATGACACG |
| 2018 | sgIRG1_8 | IRG1 | chr13 | 77529530 | + | CTTTAGCAGAAGCCCTGCCA |
| 2019 | sgIRG1_9 | IRG1 | chr13 | 77529573 | - | TGAAAGCCAGCAGCAGGTCA |
| 2020 | sgIRG1_10 | IRG1 | chr13 | 77529638 | + | AGGCCAATGACATGCCAAAG |
| 2021 | sgISCA1_1 | ISCA1 | chr9 | 88897281 | + | GCGAGCACTCACCAGGGTGA |
| 2022 | sgISCA1_2 | ISCA1 | chr9 | 88889090 | + | CTGGTTTTACTTACATGCTC |
| 2023 | sgISCA1_3 | ISCA1 | chr9 | 88897341 | + | CCGGACAGTTGCCCGGACTA |
| 2024 | sgISCA1_4 | ISCA1 | chr9 | 88897329 | - | CTGTCCGGGCTGTGAGCAAG |
| 2025 | sgISCA1_5 | ISCA1 | chr9 | 88897294 | + | AGGGTGAGGGCTGCCCGGGT |
| 2026 | sgISCA1_6 | ISCA1 | chr9 | 88897355 | - | GATGTCGGCTTCCTTAGTCC |
| 2027 | sgISCA1_7 | ISCA1 | chr9 | 88880986 | - | CCAAACATCAAAGGGACTTG |
| 2028 | sgISCA1_8 | ISCA1 | chr9 | 88886999 | - | AAAGTTGGTGTCCGAACCAG |
| 2029 | sgISCA1_9 | ISCA1 | chr9 | 88886980 | + | AGAAAGGCCATTACAGCCCC |
| 2030 | sgISCA1_10 | ISCA1 | chr9 | 88897310 | - | GAGGAAGCTGCAGCCCACCC |
| 2031 | sgISCA2_1 | ISCA2 | chr14 | 74960978 | + | AGGCTTTTGGAAATCACCGA |
| 2032 | sgISCA2_2 | ISCA2 | chr14 | 74960521 | + | GAGCGGTCACTCCCTGGCCG |
| 2033 | sgISCA2_3 | ISCA2 | chr14 | 74960834 | - | GGACGCAACTGTCTGTGAGG |
| 2034 | sgISCA2_4 | ISCA2 | chr14 | 74960818 | - | GAGGCGGATCTGCCCTTCGC |
| 2035 | sgISCA2_5 | ISCA2 | chr14 | 74961007 | + | ATTCCTCAGGCTGCAAGTGG |
| 2036 | sgISCA2_6 | ISCA2 | chr14 | 74960472 | + | AGGAAGATGGCTGCCGCCTG |
| 2037 | sgISCA2_7 | ISCA2 | chr14 | 74960504 | + | AACGGCCGCGACGCAGAGAG |
| 2038 | sgISCA2_8 | ISCA2 | chr14 | 74960535 | - | TGGTACCTGCCCCTCGGCCA |
| 2039 | sgISCA2_9 | ISCA2 | chr14 | 74960796 | + | TCGTCCTCCAGCCCCGAGGC |
| 2040 | sgISCA2_10 | ISCA2 | chr14 | 74961023 | + | GTGGAGGGAGGTGGATGCTC |
| 2041 | sgISCU_1 | ISCU | chr12 | 108961023 | - | GAGCAGTGCAGTTTCACGGG |
| 2042 | sgISCU_2 | ISCU | chr12 | 108958111 | + | AAATGTTGGAACTGGACTGG |
| 2043 | sgISCU_3 | ISCU | chr12 | 108959170 | + | CCAGCTCATTAGCCACTGAA |
| 2044 | sgISCU_4 | ISCU | chr12 | 108959185 | - | CTTTCCTTTCACCCATTCAG |
| 2045 | sgISCU_5 | ISCU | chr12 | 108961006 | - | GGGAGGAAGGCAGAGCTCCT |
| 2046 | sgISCU_6 | ISCU | chr12 | 108959105 | + | GGATGAAAAGGGGAAGATTG |
| 2047 | sgISCU_7 | ISCU | chr12 | 108962617 | + | AGATGCAATCAAGGCCGCCC |
| 2048 | sgISCU_8 | ISCU | chr12 | 108962634 | - | CAATTTGTAATCAGCCAGGG |
| 2049 | sgISCU_9 | ISCU | chr12 | 108956386 | + | GCAAGCCGGCAAGATGGCGG |
| 2050 | sgISCU_10 | ISCU | chr12 | 108956491 | + | GGCCCGACTCTATCACAAGA |
| 2051 | sgJAK2_1 | JAK2 | chr9 | 5054759 | + | GAAGTAAAAGAACCTGGAAG |
| 2052 | sgJAK2_2 | JAK2 | chr9 | 5081779 | - | AAAGGCACCAGAAAACCCCA |
| 2053 | sgJAK2_3 | JAK2 | chr9 | 5064975 | - | GAGGTGCTACTTCTTTACAG |
| 2054 | sgJAK2_4 | JAK2 | chr9 | 5069973 | + | CAACCTCACCAACATTACAG |
| 2055 | sgJAK2_5 | JAK2 | chr9 | 5089712 | + | TCTACAGGACAACACTGGGG |
| 2056 | sgJAK2_6 | JAK2 | chr9 | 5123100 | + | GAAGAGTAAAAGTCCACCAG |
| 2057 | sgJAK2_7 | JAK2 | chr9 | 5072489 | + | AAGAATGAAAGCCTTGGCCA |
| 2058 | sgJAK2_8 | JAK2 | chr9 | 5080258 | - | GGATTTTCAATGCATTCAGG |
| 2059 | sgJAK2_9 | JAK2 | chr9 | 5080321 | + | ACTTTGTGGGAAATCTGCAG |
| 2060 | sgJAK2_10 | JAK2 | chr9 | 5089772 | + | GCACCTAAGAGACTTTGAAA |
| 2061 | sgJHDM1D_1 | JHDM1D | chr7 | 139796450 | - | ATACAAAGCACAGACTGCAG |
| 2062 | sgJHDM1D_2 | JHDM1D | chr7 | 139876722 | - | AAAGATGGCCGGAGCGGCGG |
| 2063 | sgJHDM1D_3 | JHDM1D | chr7 | 139876611 | + | GGCACACACAGTACACGGGC |
| 2064 | sgJHDM1D_4 | JHDM1D | chr7 | 139826607 | - | AAGGATGTCTGAATTGGTGG |
| 2065 | sgJHDM1D_5 | JHDM1D | chr7 | 139796364 | - | GTATCGCTATGATAAACCAG |
| 2066 | sgJHDM1D_6 | JHDM1D | chr7 | 139791656 | + | GGGGTGAAGGGGCACCGAGA |
| 2067 | sgJHDM1D_7 | JHDM1D | chr7 | 139824478 | - | GGTGTTCTTTGGAGATAAGG |
| 2068 | sgJHDM1D_8 | JHDM1D | chr7 | 139798712 | - | GAGTTCAGGAGTAGAGGGAG |
| 2069 | sgJHDM1D_9 | JHDM1D | chr7 | 139791789 | - | AGGAATTATGTGGACAGCAG |
| 2070 | sgJHDM1D_10 | JHDM1D | chr7 | 139826468 | - | GATTTCCACATTGACTTCGG |
| 2071 | sgJMJD1C_1 | JMJD1C | chr10 | 64975053 | - | AGATGAAGAGAAGATGAAGG |
| 2072 | sgJMJD1C_2 | JMJD1C | chr10 | 64968961 | + | GGGGTGGGCTGATGTAGCCA |

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|---|---|---|---|---|---|---|
| 2073 | sgJMJD1C_3 | JMJD1C | chr10 | 64967968 | + | GGTTGGTGTTTAATCAAAGG |
| 2074 | sgJMJD1C_4 | JMJD1C | chr10 | 64966866 | + | AGTGCTATCCAGAGGAAGGG |
| 2075 | sgJMJD1C_5 | JMJD1C | chr10 | 64966509 | - | GTGAAAGCAAGTCAGAGCAA |
| 2076 | sgJMJD1C_6 | JMJD1C | chr10 | 64960378 | - | CAAGAAGCTGAAGCAAACTG |
| 2077 | sgJMJD1C_7 | JMJD1C | chr10 | 64952730 | + | AGATCTGCTAACCAGTGCAG |
| 2078 | sgJMJD1C_8 | JMJD1C | chr10 | 64974858 | - | TAAAAGAAGGAAACCTGAGG |
| 2079 | sgJMJD1C_9 | JMJD1C | chr10 | 64973987 | + | GGTTTAACAACTTCAGGTGA |
| 2080 | sgJMJD1C_10 | JMJD1C | chr10 | 64973756 | + | GTTTCTGACCCAATAAGTGC |
| 2081 | sgJMJD4_1 | JMJD4 | chr1 | 227923024 | + | GAAACGGTGAGGACCAGCCT |
| 2082 | sgJMJD4_2 | JMJD4 | chr1 | 227922834 | + | GCCCCGCACAAAGTCGGCGT |
| 2083 | sgJMJD4_3 | JMJD4 | chr1 | 227922793 | + | AAGGCGCTGGAAAACACGCA |
| 2084 | sgJMJD4_4 | JMJD4 | chr1 | 227922407 | - | CTGGAAAGAGTACATACAGG |
| 2085 | sgJMJD4_5 | JMJD4 | chr1 | 227922388 | - | GCGGGCTACTCCTCTCCCAG |
| 2086 | sgJMJD4_6 | JMJD4 | chr1 | 227922375 | + | GTAGAGACAGCCCCTGGGAG |
| 2087 | sgJMJD4_7 | JMJD4 | chr1 | 227921331 | + | GACATTGACAGACCAGCTGA |
| 2088 | sgJMJD4_8 | JMJD4 | chr1 | 227921211 | - | GCGACACACACCTGCACCCA |
| 2089 | sgJMJD4_9 | JMJD4 | chr1 | 227921143 | - | GAGATGGTGTTTGTGCCCAG |
| 2090 | sgJMJD4_10 | JMJD4 | chr1 | 227923069 | - | GCGCTGGCGGGGCAGAAACG |
| 2091 | sgJMJD6_1 | JMJD6 | chr17 | 74722440 | - | GAGCTTCTCGCTGAGCCCGG |
| 2092 | sgJMJD6_2 | JMJD6 | chr17 | 74721859 | - | TGAAAGACCTTACAAGCCCG |
| 2093 | sgJMJD6_3 | JMJD6 | chr17 | 74721750 | - | AAGTGTGGTGAGGATAACGA |
| 2094 | sgJMJD6_4 | JMJD6 | chr17 | 74721563 | - | AGTATGCTGGGGAGAAGCGC |
| 2095 | sgJMJD6_5 | JMJD6 | chr17 | 74719985 | - | AAAGTGACCCGAGACGAAGG |
| 2096 | sgJMJD6_6 | JMJD6 | chr17 | 74717935 | - | CAGCAGCACCAACTTCCCTG |
| 2097 | sgJMJD6_7 | JMJD6 | chr17 | 74714920 | - | GAGTCTGGATCCGAGGGCGA |
| 2098 | sgJMJD6_8 | JMJD6 | chr17 | 74714892 | - | TGCACCGCAGGAAGAAGAGG |
| 2099 | sgJMJD6_9 | JMJD6 | chr17 | 74714876 | - | GAGGAGGACGTGCAGCATGG |
| 2100 | sgJMJD6_10 | JMJD6 | chr17 | 74722527 | - | GAGCAAGAAGCGCATCCGCG |
| 2101 | sgJMJD7_1 | JMJD7 | chr15 | 42120378 | - | GAGCCACTCACCCCTTGCAG |
| 2102 | sgJMJD7_2 | JMJD7 | chr15 | 42127080 | - | GCTCCCACCTGAAATAGGGG |
| 2103 | sgJMJD7_3 | JMJD7 | chr15 | 42128722 | + | GGTGGTGGATGAAGAGGCCA |
| 2104 | sgJMJD7_4 | JMJD7 | chr15 | 42126980 | - | GTAGAAGTGGAGCGGAGTTG |
| 2105 | sgJMJD7_5 | JMJD7 | chr15 | 42127064 | - | GGGGAGGGACCACTTCTGGA |
| 2106 | sgJMJD7_6 | JMJD7 | chr15 | 42127267 | - | GCACGAAGCTCAGGGGCAGG |
| 2107 | sgJMJD7_7 | JMJD7 | chr15 | 42128704 | + | TGAAGAGGGCACCTTTAAGG |
| 2108 | sgJMJD7_8 | JMJD7 | chr15 | 42120365 | + | GAATTCCCGGCCGCTGCAAG |
| 2109 | sgJMJD7_9 | JMJD7 | chr15 | 42126993 | - | AGACCCAGTCCCGGTAGAAG |
| 2110 | sgJMJD7_10 | JMJD7 | chr15 | 42127177 | + | GGGCTCCACAGAGGTGAGTG |
| 2111 | sgJMJD8_1 | JMJD8 | chr16 | 734109 | - | GGAGGAGGAGCGCTGCACGG |
| 2112 | sgJMJD8_2 | JMJD8 | chr16 | 734291 | + | AGCGCGAGCAACCGCGACGC |
| 2113 | sgJMJD8_3 | JMJD8 | chr16 | 734070 | + | GCACGAACTCCGCGTAGGTG |
| 2114 | sgJMJD8_4 | JMJD8 | chr16 | 733882 | + | CAGGATGACGGGCCTGACGA |
| 2115 | sgJMJD8_5 | JMJD8 | chr16 | 733563 | + | GCAGCTGCTCCACATACTCC |
| 2116 | sgJMJD8_6 | JMJD8 | chr16 | 733404 | - | GGGACAACAACTTCACCGAG |
| 2117 | sgJMJD8_7 | JMJD8 | chr16 | 733377 | + | GGAGTAGTGCCGAAAGAGAG |
| 2118 | sgJMJD8_8 | JMJD8 | chr16 | 734344 | - | AAGGTTCCCGGCGTGCAGCG |
| 2119 | sgJMJD8_9 | JMJD8 | chr16 | 733863 | - | GCAGGGACTCACGGACAACT |
| 2120 | sgJMJD8_10 | JMJD8 | chr16 | 733748 | + | GCAACCTGTCGCGGGAGCAC |
| 2121 | sgKDM2A_1 | KDM2A | chr11 | 67012738 | - | GGCCTCACAGGTGTTAACCG |
| 2122 | sgKDM2A_2 | KDM2A | chr11 | 67012769 | - | GGCTCCTGACACAATCGGGG |
| 2123 | sgKDM2A_3 | KDM2A | chr11 | 67017614 | - | GGCTCATCGCAGCTCCGCAG |
| 2124 | sgKDM2A_4 | KDM2A | chr11 | 67017645 | - | GGAAGTGGGTGAATGAGGCG |
| 2125 | sgKDM2A_5 | KDM2A | chr11 | 67017660 | - | GATGAGCTGCAGCATGGAAG |
| 2126 | sgKDM2A_6 | KDM2A | chr11 | 67017698 | - | GACCGAGTCACCATACCCCG |
| 2127 | sgKDM2A_7 | KDM2A | chr11 | 67017759 | + | GCGATGAGCGCTTCAAACGG |
| 2128 | sgKDM2A_8 | KDM2A | chr11 | 67017796 | + | GCAGGCCACAGAGCGCACCA |
| 2129 | sgKDM2A_9 | KDM2A | chr11 | 67017824 | + | GAAAAGGAGAACAATCCCAG |
| 2130 | sgKDM2A_10 | KDM2A | chr11 | 67017978 | - | GGAATGGCGAAGGTTGGCAG |
| 2131 | sgKDM2B_1 | KDM2B | chr12 | 121947456 | - | GAAGGGCCTGAAAGCTCTGG |
| 2132 | sgKDM2B_2 | KDM2B | chr12 | 121883161 | - | GGCGGGGAAGGAAGACACGG |
| 2133 | sgKDM2B_3 | KDM2B | chr12 | 122016716 | - | GGACTTCGTGCACGCCATGG |

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|---|---|---|---|---|---|---|
| 2134 | sgKDM2B_4 | KDM2B | chr12 | 121958860 | + | GAACACCAAAGAGTCTACAG |
| 2135 | sgKDM2B_5 | KDM2B | chr12 | 121947786 | - | GGATTCCTGGCTGGAGATGG |
| 2136 | sgKDM2B_6 | KDM2B | chr12 | 121947750 | - | TCAGCAGCCTCAGGAGGAGG |
| 2137 | sgKDM2B_7 | KDM2B | chr12 | 121947728 | - | GAGAAGGACGAGGAGGGCGA |
| 2138 | sgKDM2B_8 | KDM2B | chr12 | 121947695 | - | GCACCCAAACCGCCCACCGA |
| 2139 | sgKDM2B_9 | KDM2B | chr12 | 121891082 | + | GTTGGCGGCCAACTTCACCG |
| 2140 | sgKDM2B_10 | KDM2B | chr12 | 121883183 | + | GCCACACACAAGGCACACGG |
| 2141 | sgKDM3A_1 | KDM3A | chr2 | 86705092 | - | CATACTCCAAACCCACACCG |
| 2142 | sgKDM3A_2 | KDM3A | chr2 | 86709796 | + | GGAGTGCTGGAAACAAGGGC |
| 2143 | sgKDM3A_3 | KDM3A | chr2 | 86683668 | + | TCTTCAAGTCAACTGTGAGG |
| 2144 | sgKDM3A_4 | KDM3A | chr2 | 86693826 | - | GGTGCATTTGAAACATCCGA |
| 2145 | sgKDM3A_5 | KDM3A | chr2 | 86707440 | + | TGGCTGGCCGACCTAACCAG |
| 2146 | sgKDM3A_6 | KDM3A | chr2 | 86709112 | - | GTGCTGGATTTGCTTAAAGG |
| 2147 | sgKDM3A_7 | KDM3A | chr2 | 86709195 | - | AAGAATTCAAGAGATTCCGG |
| 2148 | sgKDM3A_8 | KDM3A | chr2 | 86669231 | + | TCCGCAGCCGACGGCAGCGA |
| 2149 | sgKDM3A_9 | KDM3A | chr2 | 86669297 | - | CGAATGGTCCCGGAGAGCCA |
| 2150 | sgKDM3A_10 | KDM3A | chr2 | 86676929 | + | GGTGTGTGTGGAATTTGATG |
| 2151 | sgKDM3B_1 | KDM3B | chr5 | 137721855 | + | GTAGACAGTAATGGGAGCGA |
| 2152 | sgKDM3B_2 | KDM3B | chr5 | 137722303 | - | GAAGTAACTCACCTCTCCCG |
| 2153 | sgKDM3B_3 | KDM3B | chr5 | 137713493 | + | CTACAAGAGATATTCAGCCG |
| 2154 | sgKDM3B_4 | KDM3B | chr5 | 137715298 | + | GGTCAAAATATATCAGCCAG |
| 2155 | sgKDM3B_5 | KDM3B | chr5 | 137721766 | + | TAGAGGGGAAAGATGGCCGG |
| 2156 | sgKDM3B_6 | KDM3B | chr5 | 137721873 | + | GATGGAGGTGAGGCAAGCCG |
| 2157 | sgKDM3B_7 | KDM3B | chr5 | 137721910 | + | GGAATGCCAGTGGAGAGCCA |
| 2158 | sgKDM3B_8 | KDM3B | chr5 | 137722219 | - | GATCCTCACTGTGTTTGGGG |
| 2159 | sgKDM3B_9 | KDM3B | chr5 | 137727119 | - | GGGAAGGCTGGAGTGAGGGT |
| 2160 | sgKDM3B_10 | KDM3B | chr5 | 137727826 | + | GGGAATTCCAGAGCACCTGA |
| 2161 | sgKDM4A_1 | KDM4A | chr1 | 44160384 | + | GTATCTTCTGTAAGAAGCGG |
| 2162 | sgKDM4A_2 | KDM4A | chr1 | 44121260 | + | AGGTTGTTCCTCCAAAAGAG |
| 2163 | sgKDM4A_3 | KDM4A | chr1 | 44131409 | - | GAGACACAGTACCTTTGGCG |
| 2164 | sgKDM4A_4 | KDM4A | chr1 | 44132690 | - | ACTCCGCACAGTTAAAACCA |
| 2165 | sgKDM4A_5 | KDM4A | chr1 | 44133637 | + | AGAGGAGGACATGGAAGGGG |
| 2166 | sgKDM4A_6 | KDM4A | chr1 | 44134908 | - | GGTGGGCCTCACAGGGGCGA |
| 2167 | sgKDM4A_7 | KDM4A | chr1 | 44137269 | - | AGGATTCACAGAAAGATCCA |
| 2168 | sgKDM4A_8 | KDM4A | chr1 | 44154610 | + | GGAAGAGGCTGAGGAGACAG |
| 2169 | sgKDM4A_9 | KDM4A | chr1 | 44128607 | + | GACTTGGTGGAAAAGGAGAG |
| 2170 | sgKDM4A_10 | KDM4A | chr1 | 44133596 | + | AGTGAACTGCCTCCAAGAGC |
| 2171 | sgKDM4B_1 | KDM4B | chr19 | 5039882 | + | GTATGATGACATCGACGACG |
| 2172 | sgKDM4B_2 | KDM4B | chr19 | 5041141 | + | TCACCAGGTACTGTACCCCG |
| 2173 | sgKDM4B_3 | KDM4B | chr19 | 5041208 | - | AGATCGGGGAGACAAAGGTG |
| 2174 | sgKDM4B_4 | KDM4B | chr19 | 5082418 | - | GAAGCCGGCGTGGTAGCCGT |
| 2175 | sgKDM4B_5 | KDM4B | chr19 | 5082478 | - | GTAGTCAATCCACCGCAGGG |
| 2176 | sgKDM4B_6 | KDM4B | chr19 | 5110805 | - | GAGGAGCTTGGCCTTCAGCG |
| 2177 | sgKDM4B_7 | KDM4B | chr19 | 5119787 | + | GCCGGAGGTTGACCCCGAGG |
| 2178 | sgKDM4B_8 | KDM4B | chr19 | 5131491 | + | GAGGACGGTGCAGCCAGCAG |
| 2179 | sgKDM4B_9 | KDM4B | chr19 | 5131936 | + | GAAGAGCCGGCGCCATCCCC |
| 2180 | sgKDM4B_10 | KDM4B | chr19 | 5133994 | + | CGAGAGGAAGTTCAACGCAG |
| 2181 | sgKDM4C_1 | KDM4C | chr9 | 6849632 | + | TGCATGGCACACCGAAGACA |
| 2182 | sgKDM4C_2 | KDM4C | chr9 | 6981097 | + | AAGTAAGAAAAGCATCCCGA |
| 2183 | sgKDM4C_3 | KDM4C | chr9 | 6986452 | - | ATAGCCACTAGACAATGGAA |
| 2184 | sgKDM4C_4 | KDM4C | chr9 | 6986546 | + | GAGTAATGGTGTGTTAACAG |
| 2185 | sgKDM4C_5 | KDM4C | chr9 | 7011705 | + | TGAGGTTCTGTCCATTGAGG |
| 2186 | sgKDM4C_6 | KDM4C | chr9 | 6793039 | + | GACCTTCAGACCCTCCATGG |
| 2187 | sgKDM4C_7 | KDM4C | chr9 | 6793056 | - | GAACTCCCGGAACTCCTCCA |
| 2188 | sgKDM4C_8 | KDM4C | chr9 | 6805597 | + | AGGTGATTCCTCCTAAGGAG |
| 2189 | sgKDM4C_9 | KDM4C | chr9 | 6849549 | + | GATGTGGTTGAAGAAGAGTG |
| 2190 | sgKDM4C_10 | KDM4C | chr9 | 6981070 | + | TAAAAGCATGGCTGCAGAGG |
| 2191 | sgKDM4D_1 | KDM4D | chr11 | 94731631 | + | GTTACCCAGGAGAGCAGCGC |
| 2192 | sgKDM4D_2 | KDM4D | chr11 | 94731730 | - | GTGAAGAGCACACAAGGGTG |
| 2193 | sgKDM4D_3 | KDM4D | chr11 | 94731792 | - | GCTGTGGACAGCAGCAGCCC |
| 2194 | sgKDM4D_4 | KDM4D | chr11 | 94730639 | + | ATTGCTTACATGGAATCCCA |

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|---|---|---|---|---|---|---|
| 2195 | sgKDM4D_5 | KDM4D | chr11 | 94731243 | + | GGGGTTGTGGGGCCTTCCTG |
| 2196 | sgKDM4D_6 | KDM4D | chr11 | 94731388 | + | CCATGGTTTCAACTGCGCAG |
| 2197 | sgKDM4D_7 | KDM4D | chr11 | 94731531 | + | GCTATGACCTGTGGAAACGT |
| 2198 | sgKDM4D_8 | KDM4D | chr11 | 94731671 | - | GAATGCCGGGCCCAGTGGGA |
| 2199 | sgKDM4D_9 | KDM4D | chr11 | 94730775 | - | AAACACCCCTGCCCGCCCAG |
| 2200 | sgKDM4D_10 | KDM4D | chr11 | 94731020 | + | GACCTGCTGGAAAAGGAATG |
| 2201 | sgKDM4E_1 | KDM4E | chr11 | 94759419 | + | GGGGCTGTGAGGCCTTCCTG |
| 2202 | sgKDM4E_2 | KDM4E | chr11 | 94759683 | - | GGGTTGCACAATGCGCACAA |
| 2203 | sgKDM4E_3 | KDM4E | chr11 | 94759743 | + | TTGTGGAACACACAGAGCCC |
| 2204 | sgKDM4E_4 | KDM4E | chr11 | 94759964 | + | CAGACCCAGTCACTTACCCT |
| 2205 | sgKDM4E_5 | KDM4E | chr11 | 94759983 | - | AACCCTGGCTGACATCCCCA |
| 2206 | sgKDM4E_6 | KDM4E | chr11 | 94760198 | - | TCATTGGCAAGCGGGAGCTG |
| 2207 | sgKDM4E_7 | KDM4E | chr11 | 94759884 | - | TGGGTTGTAACAGTGCCCTG |
| 2208 | sgKDM4E_8 | KDM4E | chr11 | 94758856 | - | TGGGTGGAATTACCTTGGCA |
| 2209 | sgKDM4E_9 | KDM4E | chr11 | 94760094 | + | GTTGTTGTACTCGAGAACTG |
| 2210 | sgKDM4E_10 | KDM4E | chr11 | 94760172 | + | GGAGTAGAGCTCAAGGCCAC |
| 2211 | sgKDM5A_1 | KDM5A | chr12 | 418974 | - | GGAAACCAGAGATACAGCCA |
| 2212 | sgKDM5A_2 | KDM5A | chr12 | 498193 | + | AAGACGGGGCACTCTGGCGG |
| 2213 | sgKDM5A_3 | KDM5A | chr12 | 463244 | - | GTGTCCTAAATGTGTCGCCG |
| 2214 | sgKDM5A_4 | KDM5A | chr12 | 459789 | - | AAAGATTCTGCCAGAAGAAG |
| 2215 | sgKDM5A_5 | KDM5A | chr12 | 442718 | + | GCTGGGATTCAAATAACTCG |
| 2216 | sgKDM5A_6 | KDM5A | chr12 | 430235 | - | GACTCGGACCAAACTGACAG |
| 2217 | sgKDM5A_7 | KDM5A | chr12 | 419007 | - | GGAGCCTCTGAGTGATCTGG |
| 2218 | sgKDM5A_8 | KDM5A | chr12 | 416691 | - | CCAGCGTATGGTGGAACAGG |
| 2219 | sgKDM5A_9 | KDM5A | chr12 | 416216 | - | GCAGTCTGCTTTTAACCGGG |
| 2220 | sgKDM5A_10 | KDM5A | chr12 | 406288 | - | GATTCCCATCAAATCCGAGG |
| 2221 | sgKDM5B_1 | KDM5B | chr1 | 202699063 | - | AGGGCCTCTCCAGTGAGCGG |
| 2222 | sgKDM5B_2 | KDM5B | chr1 | 202777408 | - | GCGGCCACCACACTGCACCC |
| 2223 | sgKDM5B_3 | KDM5B | chr1 | 202777278 | + | GATCTTGTGGATGAAAGCGA |
| 2224 | sgKDM5B_4 | KDM5B | chr1 | 202742307 | - | GCAGTGGGCTCACATATCAG |
| 2225 | sgKDM5B_5 | KDM5B | chr1 | 202710607 | - | GAGACGTCTCATAGACCTAG |
| 2226 | sgKDM5B_6 | KDM5B | chr1 | 202710580 | - | GCTGGCCCCGTATTCAGCAG |
| 2227 | sgKDM5B_7 | KDM5B | chr1 | 202702918 | - | GCTGTCGCCTCTCCAAGATG |
| 2228 | sgKDM5B_8 | KDM5B | chr1 | 202702681 | + | GAAGTGCATCTCCCTCAGGA |
| 2229 | sgKDM5B_9 | KDM5B | chr1 | 202700039 | - | AGTGAGACCCAGCAGTGAGA |
| 2230 | sgKDM5B_10 | KDM5B | chr1 | 202699083 | - | GAAGAGACGCCTGGAAAGAG |
| 2231 | sgKDM5C_1 | KDM5C | chrX | 53230806 | - | GAAGCTAGACCTGAACCTGG |
| 2232 | sgKDM5C_2 | KDM5C | chrX | 53247085 | + | GGGCTACCCGAGCCCACCGA |
| 2233 | sgKDM5C_3 | KDM5C | chrX | 53231087 | + | GAAGCCGCTGTGGTAAGCAC |
| 2234 | sgKDM5C_4 | KDM5C | chrX | 53227776 | - | AGTCTGAAGCCCGTGAGCGG |
| 2235 | sgKDM5C_5 | KDM5C | chrX | 53227721 | - | GAACTGCCTGAGTGAGGCAG |
| 2236 | sgKDM5C_6 | KDM5C | chrX | 53226208 | - | GGGTGTTCTGGAACAGGTGG |
| 2237 | sgKDM5C_7 | KDM5C | chrX | 53226062 | - | GGCAGGTGGAACAGGCGCGA |
| 2238 | sgKDM5C_8 | KDM5C | chrX | 53224200 | - | ACAGCACCAAGCGCAGCCGG |
| 2239 | sgKDM5C_9 | KDM5C | chrX | 53224182 | - | GGTGGATGGAGAAGGAGCTG |
| 2240 | sgKDM5C_10 | KDM5C | chrX | 53223905 | - | GCAGATCGTGGCCTTCAAGG |
| 2241 | sgKDM5D_1 | KDM5D | chrY | 21877290 | - | GAAGAACTGCCTGAGTGAGG |
| 2242 | sgKDM5D_2 | KDM5D | chrY | 21905050 | - | CCAAAGGCTAAATGAACTGG |
| 2243 | sgKDM5D_3 | KDM5D | chrY | 21897624 | - | AAAACAGCCAGAGCCTACAG |
| 2244 | sgKDM5D_4 | KDM5D | chrY | 21897341 | - | GTGAAGGATGAGCAAAGTGG |
| 2245 | sgKDM5D_5 | KDM5D | chrY | 21894504 | + | CTGGGGATTTCAGGAAGGGG |
| 2246 | sgKDM5D_6 | KDM5D | chrY | 21878296 | + | GGGAGAAGACACAATAGCGC |
| 2247 | sgKDM5D_7 | KDM5D | chrY | 21877522 | - | AGTGCGAGTGGCCTTGGAGG |
| 2248 | sgKDM5D_8 | KDM5D | chrY | 21871680 | - | GCAGGATGTCCTGGAACAGG |
| 2249 | sgKDM5D_9 | KDM5D | chrY | 21871604 | + | AACAGGGACCGCAATAGCCC |
| 2250 | sgKDM5D_10 | KDM5D | chrY | 21871465 | - | GCTCTCTGGTCATCATGCAG |
| 2251 | sgKDM6A_1 | KDM6A | chrX | 44928888 | - | GAGATGCTGGGAAGGCCCAG |
| 2252 | sgKDM6A_2 | KDM6A | chrX | 44732857 | + | TGAGGAAAAGAAAATGGCGG |
| 2253 | sgKDM6A_3 | KDM6A | chrX | 44732927 | + | GAGGAGAGGGAGGCGCTCGG |
| 2254 | sgKDM6A_4 | KDM6A | chrX | 44913099 | + | CCTGGGAGATAAAGCCACCA |
| 2255 | sgKDM6A_5 | KDM6A | chrX | 44918501 | + | TCAGCAGCAAAATCAGCCCA |

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|---|---|---|---|---|---|---|
| 2256 | sgKDM6A_6 | KDM6A | chrX | 44922669 | + | GAGACCAACAGGAGTTGCAC |
| 2257 | sgKDM6A_7 | KDM6A | chrX | 44923013 | + | CCAGCAGCGCAGAGGAGCCG |
| 2258 | sgKDM6A_8 | KDM6A | chrX | 44732844 | - | TTCCTCATCACCGAAAGCGG |
| 2259 | sgKDM6A_9 | KDM6A | chrX | 44732870 | + | ATGGCGGCGGGAAAAGCGAG |
| 2260 | sgKDM6A_10 | KDM6A | chrX | 44732884 | + | AGCGAGCGGCGAGAGCGAGG |
| 2261 | sgKDM6B_1 | KDM6B | chr17 | 7750215 | - | GTAGCCAGGCCAGGCAGGGG |
| 2262 | sgKDM6B_2 | KDM6B | chr17 | 7750652 | - | GGCGTAAGGCACGCAGGCGG |
| 2263 | sgKDM6B_3 | KDM6B | chr17 | 7749265 | - | GAGCATAATATGGTTTGCTG |
| 2264 | sgKDM6B_4 | KDM6B | chr17 | 7749569 | + | GAGGAAGCTTCGCTGAGCTG |
| 2265 | sgKDM6B_5 | KDM6B | chr17 | 7749986 | + | ACTCTCAGGCCCCTCAGGGG |
| 2266 | sgKDM6B_6 | KDM6B | chr17 | 7750015 | + | TCAGCCCTGGAGGCAAGCGA |
| 2267 | sgKDM6B_7 | KDM6B | chr17 | 7750891 | + | GCGCTGGAGGTCTCTCACCA |
| 2268 | sgKDM6B_8 | KDM6B | chr17 | 7750967 | - | GGATAGGTGGGGAGTGGCAG |
| 2269 | sgKDM6B_9 | KDM6B | chr17 | 7751169 | - | GCCCCAAGAAGCCCTCGCGA |
| 2270 | sgKDM6B_10 | KDM6B | chr17 | 7751191 | - | ACAGAAAAGCGGGAGGCCGG |
| 2271 | sgKDM8_1 | KDM8 | chr16 | 27225051 | + | GGCCGTGCATGCAGAAGTGG |
| 2272 | sgKDM8_2 | KDM8 | chr16 | 27221509 | - | GTGCGGCAGGAGCGCCCTGA |
| 2273 | sgKDM8_3 | KDM8 | chr16 | 27221558 | + | GGAGAAAGTGGAGAGGAGCG |
| 2274 | sgKDM8_4 | KDM8 | chr16 | 27221630 | + | CGAGTGTCTGCAGAGCAGCG |
| 2275 | sgKDM8_5 | KDM8 | chr16 | 27221858 | - | GGATGGCAGCGACTTTAAGA |
| 2276 | sgKDM8_6 | KDM8 | chr16 | 27224983 | - | ACTGCTCCCTGAAATGCTGG |
| 2277 | sgKDM8_7 | KDM8 | chr16 | 27225019 | + | GCCCGTGATCCTGAAAGGCG |
| 2278 | sgKDM8_8 | KDM8 | chr16 | 27226221 | + | TGGCTGCCGAACTGTCCCAG |
| 2279 | sgKDM8_9 | KDM8 | chr16 | 27226272 | + | ATGGTCCCAGACCCTCATGA |
| 2280 | sgKDM8_10 | KDM8 | chr16 | 27230378 | - | AGTGGGGAGATGGTTCCCTG |
| 2281 | sgKIAA1456_1 | KIAA1456 | chr8 | 12870221 | + | GAACAGCCAGGTACATACCG |
| 2282 | sgKIAA1456_2 | KIAA1456 | chr8 | 12870281 | + | GAATAGAGGATGTGAAGCCA |
| 2283 | sgKIAA1456_3 | KIAA1456 | chr8 | 12863785 | + | GCGACCTGCAGAGCAAAGCC |
| 2284 | sgKIAA1456_4 | KIAA1456 | chr8 | 12863806 | - | GAACTGGCGGACACGAGGCC |
| 2285 | sgKIAA1456_5 | KIAA1456 | chr8 | 12863819 | - | TCTGCTCTTGCAGGAACTGG |
| 2286 | sgKIAA1456_6 | KIAA1456 | chr8 | 12870237 | + | ACCGTGGGCTGTGACTACTG |
| 2287 | sgKIAA1456_7 | KIAA1456 | chr8 | 12870267 | + | GTAGAGATTGCCCGGAATAG |
| 2288 | sgKIAA1456_8 | KIAA1456 | chr8 | 12870345 | + | GATGCCATCATCTCCATAGG |
| 2289 | sgKIAA1456_9 | KIAA1456 | chr8 | 12863728 | - | ATGCTGCTTCTCCAGCTGGG |
| 2290 | sgKIAA1456_10 | KIAA1456 | chr8 | 12863714 | + | GGATCATGAAGCCGCCCAGC |
| 2291 | sgKLKB1_1 | KLKB1 | chr4 | 187173328 | - | ACACTTACCCATCAAAGCAG |
| 2292 | sgKLKB1_2 | KLKB1 | chr4 | 187173266 | + | GCTCAGAGGCACCTGTGTGG |
| 2293 | sgKLKB1_3 | KLKB1 | chr4 | 187175751 | - | AGATGCGCCAAACATCCTGC |
| 2294 | sgKLKB1_4 | KLKB1 | chr4 | 187178471 | - | AGCCAGCACAGACCATCCGT |
| 2295 | sgKLKB1_5 | KLKB1 | chr4 | 187153301 | + | GAAAACGCCTTCTTCAGAGG |
| 2296 | sgKLKB1_6 | KLKB1 | chr4 | 187171487 | - | GTTGGGGTGATAGGTGCAGA |
| 2297 | sgKLKB1_7 | KLKB1 | chr4 | 187171505 | - | GAATGTAAAGAAGAGGCAGT |
| 2298 | sgKLKB1_8 | KLKB1 | chr4 | 187172420 | - | GGTGTTTTCTTGAGGAGTAG |
| 2299 | sgKLKB1_9 | KLKB1 | chr4 | 187173288 | + | GGTCACTCATAGGACACCAG |
| 2300 | sgKLKB1_10 | KLKB1 | chr4 | 187177200 | + | CCAACTGTTGGGTAACCGGA |
| 2301 | sgLCN2_1 | LCN2 | chr9 | 130911875 | - | GGCTGGGATCAGGTCTGAGG |
| 2302 | sgLCN2_2 | LCN2 | chr9 | 130911898 | - | AGAGGGACCTTGCTCAGAGG |
| 2303 | sgLCN2_3 | LCN2 | chr9 | 130913962 | + | CCAGCCCGGCGAGTTCACGC |
| 2304 | sgLCN2_4 | LCN2 | chr9 | 130912641 | - | CCCTCACCTAAACAGGACGG |
| 2305 | sgLCN2_5 | LCN2 | chr9 | 130911846 | + | GGCTCTGCATGCCCAGGCCC |
| 2306 | sgLCN2_6 | LCN2 | chr9 | 130912503 | + | TCAGTCCCTTGCAGTTCCAG |
| 2307 | sgLCN2_7 | LCN2 | chr9 | 130912522 | - | CTACCACATACCACTTCCCC |
| 2308 | sgLCN2_8 | LCN2 | chr9 | 130914210 | - | TGGTGCTCACCACTCGGACG |
| 2309 | sgLCN2_9 | LCN2 | chr9 | 130914508 | - | GGCCCAGAGATTTGGAGAAG |
| 2310 | sgLCN2_10 | LCN2 | chr9 | 130911812 | - | GCCCAGCCACAGGAGACCTA |
| 2311 | sgLEPRE1_1 | LEPRE1 | chr1 | 43213001 | - | GGAGTGAAGGCTGTCACCAG |
| 2312 | sgLEPRE1_2 | LEPRE1 | chr1 | 43232391 | - | AGTGTGCCGCCGACTTCCCG |
| 2313 | sgLEPRE1_3 | LEPRE1 | chr1 | 43224922 | - | GAAGGGCCCTATGACTACGA |
| 2314 | sgLEPRE1_4 | LEPRE1 | chr1 | 43215881 | + | GATGAGAGTAGGAAAAGTAG |
| 2315 | sgLEPRE1_5 | LEPRE1 | chr1 | 43213897 | + | GGGCTCTTTGACACACACGA |
| 2316 | sgLEPRE1_6 | LEPRE1 | chr1 | 43213033 | + | AGTGCCTGAAGAGAATCCCA |

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|---|---|---|---|---|---|---|
| 2317 | sgLEPRE1_7 | LEPRE1 | chr1 | 43232606 | - | GAAGCTGCTGACCACACTGC |
| 2318 | sgLEPRE1_8 | LEPRE1 | chr1 | 43232316 | + | GAAGCTCAGGTCGCGCAGGG |
| 2319 | sgLEPRE1_9 | LEPRE1 | chr1 | 43232195 | - | GAGCCCCTACAACTACCTGC |
| 2320 | sgLEPRE1_10 | LEPRE1 | chr1 | 43224992 | - | AGCTGTGCCCCACCTAGAGG |
| 2321 | sgLEPREL1_1 | LEPREL1 | chr3 | 189700837 | - | ATAGATCGAGACCTAAGAGA |
| 2322 | sgLEPREL1_2 | LEPREL1 | chr3 | 189711951 | - | GAATGCCGGACCCTATGTGA |
| 2323 | sgLEPREL1_3 | LEPREL1 | chr3 | 189681805 | - | GGGGTGAAGGCAGTCACCAA |
| 2324 | sgLEPREL1_4 | LEPREL1 | chr3 | 189706750 | + | TGGGAGAGAGGCGGCCAGGG |
| 2325 | sgLEPREL1_5 | LEPREL1 | chr3 | 189706713 | + | TGTAGGTAATCATAGTGCAG |
| 2326 | sgLEPREL1_6 | LEPREL1 | chr3 | 189692447 | + | GTGATGTTCTCATAGAGTAG |
| 2327 | sgLEPREL1_7 | LEPREL1 | chr3 | 189692355 | - | GTGCCGGGAGCTCCACAGCG |
| 2328 | sgLEPREL1_8 | LEPREL1 | chr3 | 189691774 | - | GGAATCATGCTTGTTGGTGA |
| 2329 | sgLEPREL1_9 | LEPREL1 | chr3 | 189681788 | - | CAAGGGAAAGAGGTGTGCTG |
| 2330 | sgLEPREL1_10 | LEPREL1 | chr3 | 189706767 | - | AGGGAACTTGCCACCCGCCC |
| 2331 | sgLIAS_1 | LIAS | chr4 | 39460732 | + | GAGGAAATGTCTCTACGCTG |
| 2332 | sgLIAS_2 | LIAS | chr4 | 39460754 | + | GGGATGCAGCCCGCACCCTG |
| 2333 | sgLIAS_3 | LIAS | chr4 | 39463834 | + | GCTAAAGACAGAGATTCCCA |
| 2334 | sgLIAS_4 | LIAS | chr4 | 39466732 | - | GGCTCACTGGCATCCAGTGG |
| 2335 | sgLIAS_5 | LIAS | chr4 | 39469245 | + | AAACAGTCCCGGAATTACAG |
| 2336 | sgLIAS_6 | LIAS | chr4 | 39465218 | - | GGCTGGCCCTACCATGATCG |
| 2337 | sgLIAS_7 | LIAS | chr4 | 39471655 | - | GACTGATCAAAATTGGCCCG |
| 2338 | sgLIAS_8 | LIAS | chr4 | 39462481 | - | GAAGGTCTGGTCCATTCTGT |
| 2339 | sgLIAS_9 | LIAS | chr4 | 39462554 | + | GGAAACCTAAAACGCCAGAA |
| 2340 | sgLIAS_10 | LIAS | chr4 | 39466746 | + | TGAGCCCTACAATACTGCAA |
| 2341 | sgLPO_1 | LPO | chr17 | 56320352 | - | GGAGGGCTGGGAGATGGAGA |
| 2342 | sgLPO_2 | LPO | chr17 | 56329841 | - | GAAGCAGGGCACACGGGCAG |
| 2343 | sgLPO_3 | LPO | chr17 | 56332208 | - | GAGAAAGAGGGTGTGGGATG |
| 2344 | sgLPO_4 | LPO | chr17 | 56332257 | + | AAAGAGACTCAACCCTCAGT |
| 2345 | sgLPO_5 | LPO | chr17 | 56332325 | - | GGGACTCCCTACCTGCACGA |
| 2346 | sgLPO_6 | LPO | chr17 | 56342201 | - | GTGGCCAAAGCGGAAGGCGA |
| 2347 | sgLPO_7 | LPO | chr17 | 56342247 | - | GCTGATAATTCTCATCCAGG |
| 2348 | sgLPO_8 | LPO | chr17 | 56326481 | - | GCACGGGTCGCATCTCACCA |
| 2349 | sgLPO_9 | LPO | chr17 | 56327840 | + | GGTCCCTGCTCTTCATGCAG |
| 2350 | sgLPO_10 | LPO | chr17 | 56327937 | - | GGATACAGTACTCATCACAC |
| 2351 | sgLTF_1 | LTF | chr3 | 46486841 | - | GAAGTCCTGCCACACCGCCG |
| 2352 | sgLTF_2 | LTF | chr3 | 46497426 | - | GTGGCTGTGGTGAAGAAGGG |
| 2353 | sgLTF_3 | LTF | chr3 | 46490461 | - | GCGGGTCGTGTGGTGTGCGG |
| 2354 | sgLTF_4 | LTF | chr3 | 46490342 | + | GGAGCTCCCTACCAGCACCA |
| 2355 | sgLTF_5 | LTF | chr3 | 46484942 | - | GAGATACTACGGCTACACTG |
| 2356 | sgLTF_6 | LTF | chr3 | 46497857 | - | GATGCTGTGACCCTTGATGG |
| 2357 | sgLTF_7 | LTF | chr3 | 46497804 | - | CAAACTGCGACCTGTAGCGG |
| 2358 | sgLTF_8 | LTF | chr3 | 46497445 | - | ACGAACTCACTATTATGCCG |
| 2359 | sgLTF_9 | LTF | chr3 | 46492020 | - | ACGAAGTGTGAATGGCAAGG |
| 2360 | sgLTF_10 | LTF | chr3 | 46491987 | - | GAATCTTCTCCGCCAGGCAC |
| 2361 | sgMAP2_1 | MAP2 | chr2 | 210517903 | + | TGAACGGAAAGATGAAGCAA |
| 2362 | sgMAP2_2 | MAP2 | chr2 | 210517936 | + | GACCTCAGCACCGCTAACAG |
| 2363 | sgMAP2_3 | MAP2 | chr2 | 210517991 | + | GATCAAGGCGGAGCAGGGGA |
| 2364 | sgMAP2_4 | MAP2 | chr2 | 210574693 | - | GAGTGATGGCAGTAGACCCA |
| 2365 | sgMAP2_5 | MAP2 | chr2 | 210594651 | + | AATGCTCATCATGTACCTGG |
| 2366 | sgMAP2_6 | MAP2 | chr2 | 210517979 | + | CCTGAGATTAAGGATCAAGG |
| 2367 | sgMAP2_7 | MAP2 | chr2 | 210518029 | + | CAATGGATTCCCATACAGGG |
| 2368 | sgMAP2_8 | MAP2 | chr2 | 210518135 | + | TCAGCTGACAGAGAAACAGC |
| 2369 | sgMAP2_9 | MAP2 | chr2 | 210570367 | - | CCTGACACACCTCGCCGAGG |
| 2370 | sgMAP2_10 | MAP2 | chr2 | 210574765 | - | GAGGGGTCCTGGGATAGCTA |
| 2371 | sgMB_1 | MB | chr22 | 36007080 | - | GAAGTCAGAGGACGAGATGA |
| 2372 | sgMB_2 | MB | chr22 | 36006933 | - | GATCCCCGTGAAGTACCTGG |
| 2373 | sgMB_3 | MB | chr22 | 36013231 | - | GAGGCTGACATCCCAGGCCA |
| 2374 | sgMB_4 | MB | chr22 | 36007027 | + | ACCCAGGGCGGTGAGCACGG |
| 2375 | sgMB_5 | MB | chr22 | 36013216 | + | AGGACTTCCTGCCCATGGCC |
| 2376 | sgMB_6 | MB | chr22 | 36007015 | + | CTTAAGGATGCCACCCAGGG |
| 2377 | sgMB_7 | MB | chr22 | 36006961 | + | GGTGGCATGCGACTGTGCCA |

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|---|---|---|---|---|---|---|
| 2378 | sgMB_8 | MB | chr22 | 36013291 | - | TGCGCCATGGGGCTCAGCGA |
| 2379 | sgMB_9 | MB | chr22 | 36006999 | - | TAAGAAGAAGGGGCATCATG |
| 2380 | sgMB_10 | MB | chr22 | 36013262 | - | GCAGTTGGTGCTGAACGTCT |
| 2381 | sgMETAP1_1 | METAP1 | chr4 | 99955431 | + | ATTAATACTGACCCATGGGC |
| 2382 | sgMETAP1_2 | METAP1 | chr4 | 99955446 | - | GTATATCGATAACCTGCCCA |
| 2383 | sgMETAP1_3 | METAP1 | chr4 | 99964472 | + | GTGAATGAAGTCATTTGCCA |
| 2384 | sgMETAP1_4 | METAP1 | chr4 | 99916903 | + | GCATGGCGGCCGTGGAGACG |
| 2385 | sgMETAP1_5 | METAP1 | chr4 | 99916975 | - | GATGCCCAGCTTGATGCAAG |
| 2386 | sgMETAP1_6 | METAP1 | chr4 | 99962203 | + | GAAGTTTTGGATGTTGCTGC |
| 2387 | sgMETAP1_7 | METAP1 | chr4 | 99962218 | + | GCTGCCGGCATGATTAAACC |
| 2388 | sgMETAP1_8 | METAP1 | chr4 | 99964488 | + | GCCATGGAATACCAGACAGA |
| 2389 | sgMETAP1_9 | METAP1 | chr4 | 99916997 | - | GCGAGCAGAAGTACGAGCCC |
| 2390 | sgMETAP1_10 | METAP1 | chr4 | 99916934 | + | GACAGACGGCTGCAGCAGTG |
| 2391 | sgMETAP1D_1 | METAP1D | chr2 | 172928564 | - | AACTCTTCCCAGCCAAGAGG |
| 2392 | sgMETAP1D_2 | METAP1D | chr2 | 172930407 | - | GGAAAACCTCCATAGCCTAG |
| 2393 | sgMETAP1D_3 | METAP1D | chr2 | 172930444 | - | ACAGAGCACGTTGTTTACAG |
| 2394 | sgMETAP1D_4 | METAP1D | chr2 | 172943944 | + | AAACGACAGTGATCTACCCA |
| 2395 | sgMETAP1D_5 | METAP1D | chr2 | 172944851 | + | TACAGAGCCAATCATCACGG |
| 2396 | sgMETAP1D_6 | METAP1D | chr2 | 172864895 | + | GTCCACCTGCTCGTCCGCAG |
| 2397 | sgMETAP1D_7 | METAP1D | chr2 | 172926351 | - | TGAGCTGAAGAAACTGCAGC |
| 2398 | sgMETAP1D_8 | METAP1D | chr2 | 172928465 | + | GACAGGCATTGTACCAGACT |
| 2399 | sgMETAP1D_9 | METAP1D | chr2 | 172935745 | + | AATTGCAGCTTGCAGAGCAG |
| 2400 | sgMETAP1D_10 | METAP1D | chr2 | 172944893 | + | CCTGGAGGATGCATGGACTG |
| 2401 | sgMFI2_1 | MFI2 | chr3 | 196753555 | - | GGAGCACGGCCTGAAGCCGG |
| 2402 | sgMFI2_2 | MFI2 | chr3 | 196754759 | - | TCGGTGGCATGGAGGTGCGG |
| 2403 | sgMFI2_3 | MFI2 | chr3 | 196754710 | - | CAAGTGCGGCAACATGAGCG |
| 2404 | sgMFI2_4 | MFI2 | chr3 | 196754657 | + | GGTGCCCCGGACGCAGAGGA |
| 2405 | sgMFI2_5 | MFI2 | chr3 | 196749840 | - | GAGAGATACTACGACTACAG |
| 2406 | sgMFI2_6 | MFI2 | chr3 | 196748277 | - | ACGGTACTGGAGAACACGGA |
| 2407 | sgMFI2_7 | MFI2 | chr3 | 196754729 | + | GTGCTGCTCTGGGTCCGAGG |
| 2408 | sgMFI2_8 | MFI2 | chr3 | 196754633 | + | GAGCTGGACGCAGTGGTCGG |
| 2409 | sgMFI2_9 | MFI2 | chr3 | 196753582 | - | TGGAGGAGCCATCTATGAGG |
| 2410 | sgMFI2_10 | MFI2 | chr3 | 196751313 | + | GCTCCTCCTGACCACAGCCA |
| 2411 | sgMINA_1 | MINA | chr3 | 97664644 | - | GGGAAATGAGGAGGAAACAG |
| 2412 | sgMINA_2 | MINA | chr3 | 97686356 | - | GATGAAGTTAGAAGCAGCTG |
| 2413 | sgMINA_3 | MINA | chr3 | 97680473 | - | AATGTGTACATAACTCCCGC |
| 2414 | sgMINA_4 | MINA | chr3 | 97677957 | + | GTGCCAGGGGCACAGTGGGG |
| 2415 | sgMINA_5 | MINA | chr3 | 97668790 | - | GACACTTGCAGACCGGCTGG |
| 2416 | sgMINA_6 | MINA | chr3 | 97686392 | - | GAGTGGGAAGGAAGAGGGGC |
| 2417 | sgMINA_7 | MINA | chr3 | 97677942 | - | GGCACGAGAGTACAGCGTGG |
| 2418 | sgMINA_8 | MINA | chr3 | 97677926 | - | GTGGAGGCCGAGGAAAGGAT |
| 2419 | sgMINA_9 | MINA | chr3 | 97673314 | - | GATTTGTTGTACTTTCCCAG |
| 2420 | sgMINA_10 | MINA | chr3 | 97669668 | - | TGATACTGCAAAGGAAGACG |
| 2421 | sgMIOX_1 | MIOX | chr22 | 50927518 | - | GGAGTCGCAGAAAACCACGG |
| 2422 | sgMIOX_2 | MIOX | chr22 | 50926419 | - | GGAAGGCATGGAAGGAGTTG |
| 2423 | sgMIOX_3 | MIOX | chr22 | 50927667 | + | GGGATGTATCAGCCCCACTG |
| 2424 | sgMIOX_4 | MIOX | chr22 | 50927684 | - | GGACCCTGTCGAGCCCACAG |
| 2425 | sgMIOX_5 | MIOX | chr22 | 50925320 | + | TCTCAGGATGAAGGTGACGG |
| 2426 | sgMIOX_6 | MIOX | chr22 | 50926347 | + | AATGACAGTCATGGAGGCCG |
| 2427 | sgMIOX_7 | MIOX | chr22 | 50926456 | + | CGGAAGGCCCACCCAGACAA |
| 2428 | sgMIOX_8 | MIOX | chr22 | 50926714 | - | CGTGCAGGAGCCCGACGAGG |
| 2429 | sgMIOX_9 | MIOX | chr22 | 50925837 | + | CCGACCTGATGTGGACCCAG |
| 2430 | sgMIOX_10 | MIOX | chr22 | 50926100 | - | GTGAAGACACGGTCCAGGAG |
| 2431 | sgMOCS1_1 | MOCS1 | chr6 | 39880638 | - | GGAGGAATCCAGCACAGCCA |
| 2432 | sgMOCS1_2 | MOCS1 | chr6 | 39893569 | - | TCAGTACTGCATGCCCGAGG |
| 2433 | sgMOCS1_3 | MOCS1 | chr6 | 39893463 | - | GACAAGATCCGGCTCACAGG |
| 2434 | sgMOCS1_4 | MOCS1 | chr6 | 39883800 | + | ACATCCGCTCACCTTTCCTG |
| 2435 | sgMOCS1_5 | MOCS1 | chr6 | 39881520 | - | GCTGGGCTACAACCCTGTGA |
| 2436 | sgMOCS1_6 | MOCS1 | chr6 | 39880668 | - | GCAGTGGCCAGAGCTGGAGA |
| 2437 | sgMOCS1_7 | MOCS1 | chr6 | 39877667 | - | GAAACTCTGAGGTATCCCTG |
| 2438 | sgMOCS1_8 | MOCS1 | chr6 | 39893434 | - | GCTTATCCGGCCGGACGTGG |

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|---|---|---|---|---|---|---|
| 2439 | sgMOCS1_9 | MOCS1 | chr6 | 39880684 | - | TAGACACTGTCCGGCAGCAG |
| 2440 | sgMOCS1_10 | MOCS1 | chr6 | 39880656 | - | GCTGGAGAAGGTGCCAGAGG |
| 2441 | sgMOXD1_1 | MOXD1 | chr6 | 132649220 | + | AGGGATAATCCAACATGAGG |
| 2442 | sgMOXD1_2 | MOXD1 | chr6 | 132722468 | + | GAGTCCAGGAGGGTCCGGTG |
| 2443 | sgMOXD1_3 | MOXD1 | chr6 | 132722394 | + | CTGCAGTGCGCACCTGGAGG |
| 2444 | sgMOXD1_4 | MOXD1 | chr6 | 132722338 | + | GACGATGTCGGCGGACGCCA |
| 2445 | sgMOXD1_5 | MOXD1 | chr6 | 132643907 | - | GCGTCATTTTCGAAAAGGGA |
| 2446 | sgMOXD1_6 | MOXD1 | chr6 | 132722328 | - | CGACATCGTCGTGGGCGGGG |
| 2447 | sgMOXD1_7 | MOXD1 | chr6 | 132649200 | + | GCGGATCTAATGGAGTGCCA |
| 2448 | sgMOXD1_8 | MOXD1 | chr6 | 132649154 | - | GATAATCCCACTTATGAGGA |
| 2449 | sgMOXD1_9 | MOXD1 | chr6 | 132722457 | + | ACTTGCCCTCCGAGTCCAGG |
| 2450 | sgMOXD1_10 | MOXD1 | chr6 | 132722302 | + | CTGGAGGTAGGGCCGCCCGT |
| 2451 | sgMPO_1 | MPO | chr17 | 56356738 | + | GCAGCCAGCGCACAAAGGCA |
| 2452 | sgMPO_2 | MPO | chr17 | 56356666 | - | CAAGCGCAACGGCTTCCCGG |
| 2453 | sgMPO_3 | MPO | chr17 | 56357971 | + | GCAGCACCTTCAGAGGGCTG |
| 2454 | sgMPO_4 | MPO | chr17 | 56357773 | - | GGTGCTGAGCTCCATGGAGG |
| 2455 | sgMPO_5 | MPO | chr17 | 56357758 | - | GGAGGAGGCCAAGCAGCTGG |
| 2456 | sgMPO_6 | MPO | chr17 | 56357735 | - | ACAAGGCCTACAAGGAGCGG |
| 2457 | sgMPO_7 | MPO | chr17 | 56357290 | - | GGTGGCAGCCACCAGGACGG |
| 2458 | sgMPO_8 | MPO | chr17 | 56356886 | + | GTTGTTGCACATCCCGGTGA |
| 2459 | sgMPO_9 | MPO | chr17 | 56356772 | - | GCAGACGCAGCCCCACGCTG |
| 2460 | sgMPO_10 | MPO | chr17 | 56355312 | - | GCAACATGTCCAACCAGCTG |
| 2461 | sgMPPED1_1 | MPPED1 | chr22 | 43821111 | + | CAGCCGGCTCATCATCGAGG |
| 2462 | sgMPPED1_2 | MPPED1 | chr22 | 43821192 | - | GCACATGCGGTGGCTGGAAG |
| 2463 | sgMPPED1_3 | MPPED1 | chr22 | 43894197 | + | GTAGACATCCTGATAACCCA |
| 2464 | sgMPPED1_4 | MPPED1 | chr22 | 43898536 | + | GGGTCCCCAAGAAGATGCAG |
| 2465 | sgMPPED1_5 | MPPED1 | chr22 | 43821012 | + | TGCCAGCGTCCTGAAGGCGG |
| 2466 | sgMPPED1_6 | MPPED1 | chr22 | 43821051 | - | ATGCCATGCCCAGGCCGCAG |
| 2467 | sgMPPED1_7 | MPPED1 | chr22 | 43821155 | - | GTAGAAGGTGAAGGCCTGGG |
| 2468 | sgMPPED1_8 | MPPED1 | chr22 | 43821166 | + | ACCTTCTACAACATCAACCA |
| 2469 | sgMPPED1_9 | MPPED1 | chr22 | 43821202 | - | ACTTACATCTGCACATGCGG |
| 2470 | sgMPPED1_10 | MPPED1 | chr22 | 43831076 | + | CTGGGGACTTCACTGAGCTG |
| 2471 | sgMRE11A_1 | MRE11A | chr11 | 94180387 | - | GGAGGGTCTCAAAGAGGAAG |
| 2472 | sgMRE11A_2 | MRE11A | chr11 | 94203781 | - | GTTTGCTGCGTATTAAAGGG |
| 2473 | sgMRE11A_3 | MRE11A | chr11 | 94180459 | - | GCAGCAACCAACAAAGGAAG |
| 2474 | sgMRE11A_4 | MRE11A | chr11 | 94212842 | - | CAATCATGACGATCCCACAG |
| 2475 | sgMRE11A_5 | MRE11A | chr11 | 94180435 | - | CGAGGAAGAGGTCGAAGAGG |
| 2476 | sgMRE11A_6 | MRE11A | chr11 | 94180408 | - | GGGCAGAATTCAGCATCGAG |
| 2477 | sgMRE11A_7 | MRE11A | chr11 | 94197392 | - | TTTCAGGTGGACTATAGTGG |
| 2478 | sgMRE11A_8 | MRE11A | chr11 | 94194104 | - | GTACTTTCAAACCGCAGAGA |
| 2479 | sgMRE11A_9 | MRE11A | chr11 | 94192576 | - | CGAAGACAAAATCGATGAGG |
| 2480 | sgMRE11A_10 | MRE11A | chr11 | 94224057 | - | ATGGAGAAAGATGCAGTCAG |
| 2481 | sgMSMO1_1 | MSMO1 | chr4 | 166259068 | + | ATTGGGAAAGAATGCCAAGA |
| 2482 | sgMSMO1_2 | MSMO1 | chr4 | 166261409 | - | CCAAGAATTAGAGTCTCCAA |
| 2483 | sgMSMO1_3 | MSMO1 | chr4 | 166261366 | + | GTCTTAGGCTCCATTTGGAA |
| 2484 | sgMSMO1_4 | MSMO1 | chr4 | 166262975 | - | TTCCAATGAAGTTCATGTGG |
| 2485 | sgMSMO1_5 | MSMO1 | chr4 | 166258936 | + | CGTAGGATAAGCCAGAGACA |
| 2486 | sgMSMO1_6 | MSMO1 | chr4 | 166254658 | + | AAGTTCCAGATTGCAACATG |
| 2487 | sgMSMO1_7 | MSMO1 | chr4 | 166262942 | - | GCCGAGAACCAGCATAGAAA |
| 2488 | sgMSMO1_8 | MSMO1 | chr4 | 166258948 | + | CAGAGACATGGGAAAACCAA |
| 2489 | sgMSMO1_9 | MSMO1 | chr4 | 166254566 | - | ATCTACATATTCCACAGCCA |
| 2490 | sgMSMO1_10 | MSMO1 | chr4 | 166254552 | + | TAGTTCAGCATCCTTGGCTG |
| 2491 | sgMUTYH_1 | MUTYH | chr1 | 45800156 | - | GAGGAAGCCACGAGCAGCCG |
| 2492 | sgMUTYH_2 | MUTYH | chr1 | 45799210 | - | GGCCAGGCAGCCGGAAGAGG |
| 2493 | sgMUTYH_3 | MUTYH | chr1 | 45799175 | + | TAGATGGTATGAGGAGACAG |
| 2494 | sgMUTYH_4 | MUTYH | chr1 | 45798487 | - | GAGGTGAATCAACTCTGGGC |
| 2495 | sgMUTYH_5 | MUTYH | chr1 | 45797704 | - | GTCGGGCAGTCCTGACGTGG |
| 2496 | sgMUTYH_6 | MUTYH | chr1 | 45797094 | - | GCACCTCCGGCACCTTGGGG |
| 2497 | sgMUTYH_7 | MUTYH | chr1 | 45800115 | - | AGGCAGCCAGCCAGGAAGGG |
| 2498 | sgMUTYH_8 | MUTYH | chr1 | 45799142 | - | CTGAAGTCACAGCCTTCCGA |
| 2499 | sgMUTYH_9 | MUTYH | chr1 | 45798781 | + | GGTATAGTAGTTGATCACAG |

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|---|---|---|---|---|---|---|
| 2500 | sgMUTYH_10 | MUTYH | chr1 | 45798459 | - | GCTACTATTCTCGTGGCCGG |
| 2501 | sgNARF_1 | NARF | chr17 | 80430563 | - | GGGCTCACCAGGACAGGCAG |
| 2502 | sgNARF_2 | NARF | chr17 | 80438984 | - | AACAAGGGGCCACAATGACG |
| 2503 | sgNARF_3 | NARF | chr17 | 80439043 | - | CCGGGAGCCATGCAAAGCAG |
| 2504 | sgNARF_4 | NARF | chr17 | 80442686 | + | GAGGTTTGGAGACTTGAAGG |
| 2505 | sgNARF_5 | NARF | chr17 | 80442779 | + | GGAGCTGTTCAACGAGGATG |
| 2506 | sgNARF_6 | NARF | chr17 | 80443490 | + | GTTCCCATTCCACTTTGTGG |
| 2507 | sgNARF_7 | NARF | chr17 | 80426723 | - | TGGATGCATCAGTTACACTG |
| 2508 | sgNARF_8 | NARF | chr17 | 80436747 | - | AAAGAGCCCATGACCTGCTG |
| 2509 | sgNARF_9 | NARF | chr17 | 80430516 | + | CTATCGCCAGCACAGTGAGG |
| 2510 | sgNARF_10 | NARF | chr17 | 80430548 | - | GGCAGAGGTCAGCATGGGCA |
| 2511 | sgNARFL_1 | NARFL | chr16 | 782314 | + | GGGCTGGTTCCAGGTCGGGG |
| 2512 | sgNARFL_2 | NARFL | chr16 | 781661 | - | GAGCCCACCAGCCATCGGGG |
| 2513 | sgNARFL_3 | NARFL | chr16 | 780984 | - | CAGGAACAAAGACTTCCAGG |
| 2514 | sgNARFL_4 | NARFL | chr16 | 787234 | + | GATAAGCACGGTCTCTGCGG |
| 2515 | sgNARFL_5 | NARFL | chr16 | 787200 | + | GAACCTTCTTCAGCTCCTCG |
| 2516 | sgNARFL_6 | NARFL | chr16 | 784729 | + | GAGCACACCTGGGCAGGCAG |
| 2517 | sgNARFL_7 | NARFL | chr16 | 782292 | + | CATACGTACAGGCTGTCCAG |
| 2518 | sgNARFL_8 | NARFL | chr16 | 781683 | - | GTGCAGCGGTGCCTCTGCAG |
| 2519 | sgNARFL_9 | NARFL | chr16 | 780939 | - | GGTGCTGCTGCACTTCGCAA |
| 2520 | sgNARFL_10 | NARFL | chr16 | 787299 | - | CCGGAGGCTGGAGAAGGCCA |
| 2521 | sgNDUFS1_1 | NDUFS1 | chr2 | 207011765 | - | GATTTGGGAACAACAGGCAG |
| 2522 | sgNDUFS1_2 | NDUFS1 | chr2 | 207007515 | - | GATGTGGCAGCAATTGCAGG |
| 2523 | sgNDUFS1_3 | NDUFS1 | chr2 | 207006687 | + | ACAGTGGTGCCTCAAAACGT |
| 2524 | sgNDUFS1_4 | NDUFS1 | chr2 | 206997786 | + | GAACTGCCTAAAACCACCAT |
| 2525 | sgNDUFS1_5 | NDUFS1 | chr2 | 206994878 | + | GGAGAAACAGCACCTTGGGA |
| 2526 | sgNDUFS1_6 | NDUFS1 | chr2 | 207007531 | - | GAGTTTTCAAGGCAAAGATG |
| 2527 | sgNDUFS1_7 | NDUFS1 | chr2 | 206997711 | - | CAAAAGATTCGGATGACTAG |
| 2528 | sgNDUFS1_8 | NDUFS1 | chr2 | 207012312 | - | GCTGTGGAAGACAAGAACAT |
| 2529 | sgNDUFS1_9 | NDUFS1 | chr2 | 207009688 | - | ATTGTGGTTAGCACAAGAAC |
| 2530 | sgNDUFS1_10 | NDUFS1 | chr2 | 207009675 | - | CAAGAACTGGAGAAGTGATG |
| 2531 | sgNDUFS2_1 | NDUFS2 | chr1 | 161172168 | + | GGAGTAAGATGGCGGCGCTG |
| 2532 | sgNDUFS2_2 | NDUFS2 | chr1 | 161183230 | - | GCAGTATATGTGGCTCCTGG |
| 2533 | sgNDUFS2_3 | NDUFS2 | chr1 | 161173292 | + | CAAGCAAAGAAACAGCCCAC |
| 2534 | sgNDUFS2_4 | NDUFS2 | chr1 | 161173324 | - | GGTCACTCACCATTCCAAGG |
| 2535 | sgNDUFS2_5 | NDUFS2 | chr1 | 161176288 | + | GATGGAATTGAGTGGGGAGA |
| 2536 | sgNDUFS2_6 | NDUFS2 | chr1 | 161179307 | - | GTGTGGTCACAGCCATGATG |
| 2537 | sgNDUFS2_7 | NDUFS2 | chr1 | 161180151 | + | GCAGAAGAAGCACTTAACTA |
| 2538 | sgNDUFS2_8 | NDUFS2 | chr1 | 161180432 | - | GGTCGTAAACATCATAGGGC |
| 2539 | sgNDUFS2_9 | NDUFS2 | chr1 | 161182138 | + | GAGGTACCTGTGCCGGGTGG |
| 2540 | sgNDUFS2_10 | NDUFS2 | chr1 | 161183480 | - | TGATCTTGCATCGATAAGGG |
| 2541 | sgNDUFS7_1 | NDUFS7 | chr19 | 1388866 | + | GCTCCCAAACCCAGCAGCCG |
| 2542 | sgNDUFS7_2 | NDUFS7 | chr19 | 1391143 | + | GCTACGTGGTCTCCATGGGG |
| 2543 | sgNDUFS7_3 | NDUFS7 | chr19 | 1388880 | + | CAGCCGGGGCGAGTATGTGG |
| 2544 | sgNDUFS7_4 | NDUFS7 | chr19 | 1391158 | - | GCCCTGCACTCACCTCCCCA |
| 2545 | sgNDUFS7_5 | NDUFS7 | chr19 | 1387820 | - | CAAGGATCCGGAAGCCGCGC |
| 2546 | sgNDUFS7_6 | NDUFS7 | chr19 | 1390859 | + | GGCCTCCGCAGAGTTCTCTG |
| 2547 | sgNDUFS7_7 | NDUFS7 | chr19 | 1390886 | - | GCAGGCCAGGCCGAAGGTCA |
| 2548 | sgNDUFS7_8 | NDUFS7 | chr19 | 1390944 | + | CGACATGGACCGCTTTGGCG |
| 2549 | sgNDUFS7_9 | NDUFS7 | chr19 | 1393276 | - | GCAGCCCCTCACCACCGAGT |
| 2550 | sgNDUFS7_10 | NDUFS7 | chr19 | 1388512 | + | ATCTCCCGGCAGCTCCAGCG |
| 2551 | sgNDUFS8_1 | NDUFS8 | chr11 | 67799635 | - | GGCCCGCAGCAGCATAGGCG |
| 2552 | sgNDUFS8_2 | NDUFS8 | chr11 | 67799769 | + | GAGCCTCCACAGCAGTGCAG |
| 2553 | sgNDUFS8_3 | NDUFS8 | chr11 | 67800657 | - | CATGCTCCCCACGGAAGCGA |
| 2554 | sgNDUFS8_4 | NDUFS8 | chr11 | 67800397 | + | GAACATGCAGGATCCCGAGA |
| 2555 | sgNDUFS8_5 | NDUFS8 | chr11 | 67800456 | - | GAAGAGCTCAGTCCACAGCA |
| 2556 | sgNDUFS8_6 | NDUFS8 | chr11 | 67800678 | + | GCTGCGCCGGTACCCATCCG |
| 2557 | sgNDUFS8_7 | NDUFS8 | chr11 | 67803742 | + | CAAGAGCTGATGGCAGCCGC |
| 2558 | sgNDUFS8_8 | NDUFS8 | chr11 | 67803800 | + | CTACTGCGGCTTCTGCCAGG |
| 2559 | sgNDUFS8_9 | NDUFS8 | chr11 | 67799656 | - | TGCACGTGCAGCCTGGGCCA |
| 2560 | sgNDUFS8_10 | NDUFS8 | chr11 | 67799758 | - | TGGAGGCTCCGGCCACCAGG |

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|---|---|---|---|---|---|---|
| 2561 | sgNDUFV1_1 | NDUFV1 | chr11 | 67375928 | + | TGTACGGCCGCCATGACTGG |
| 2562 | sgNDUFV1_2 | NDUFV1 | chr11 | 67377051 | - | GATGTAGATATAGGCAGCGC |
| 2563 | sgNDUFV1_3 | NDUFV1 | chr11 | 67378533 | - | CAAACCAGGTACCTCCACGG |
| 2564 | sgNDUFV1_4 | NDUFV1 | chr11 | 67378917 | - | GTGGGGTAGACGAGCCGCCA |
| 2565 | sgNDUFV1_5 | NDUFV1 | chr11 | 67379387 | - | GAACTCAATGAGGCGGGCGA |
| 2566 | sgNDUFV1_6 | NDUFV1 | chr11 | 67379595 | + | GGACTGGATGAACAAGGTGA |
| 2567 | sgNDUFV1_7 | NDUFV1 | chr11 | 67376059 | + | GACAAAGGAGATCCTGCTGA |
| 2568 | sgNDUFV1_8 | NDUFV1 | chr11 | 67376933 | + | CTGGTGGTGAACGCAGACGA |
| 2569 | sgNDUFV1_9 | NDUFV1 | chr11 | 67377007 | + | GCTGCTGGAAGGCTGCCTGG |
| 2570 | sgNDUFV1_10 | NDUFV1 | chr11 | 67378965 | + | GCTGATGGACTTCGATGCGC |
| 2571 | sgNDUFV2_1 | NDUFV2 | chr18 | 9126878 | + | CTGGCAAAATCCCAAAACCA |
| 2572 | sgNDUFV2_2 | NDUFV2 | chr18 | 9126898 | - | AATAAAGCATACCTTGGCCC |
| 2573 | sgNDUFV2_3 | NDUFV2 | chr18 | 9102735 | + | GCCCGCCATGTTCTTCTCCG |
| 2574 | sgNDUFV2_4 | NDUFV2 | chr18 | 9126825 | + | CCAGGAGGATTTGACAGCTA |
| 2575 | sgNDUFV2_5 | NDUFV2 | chr18 | 9102774 | + | GGCTGGCCTCACCGCCCACT |
| 2576 | sgNDUFV2_6 | NDUFV2 | chr18 | 9134251 | - | CCTGCTTGTACACCAAATCC |
| 2577 | sgNDUFV2_7 | NDUFV2 | chr18 | 9117866 | + | GTTATGCAAAATGGAGCTGG |
| 2578 | sgNDUFV2_8 | NDUFV2 | chr18 | 9119572 | - | TACCTTGTTCATAGCAGAGA |
| 2579 | sgNDUFV2_9 | NDUFV2 | chr18 | 9134209 | - | AAAGAGGTAAGACCTCCAGC |
| 2580 | sgNDUFV2_10 | NDUFV2 | chr18 | 9134224 | + | TCTTTGACTGAACCACCCAA |
| 2581 | sgNENF_1 | NENF | chr1 | 212606414 | + | AGTGCGGCTTTTCACCGAGG |
| 2582 | sgNENF_2 | NENF | chr1 | 212606435 | + | GGAGCTGGCCCGCTATGGCG |
| 2583 | sgNENF_3 | NENF | chr1 | 212615959 | - | ACACCACTTACCCTTTCCGG |
| 2584 | sgNENF_4 | NENF | chr1 | 212615945 | + | GTTTGATGTCACCTCCGGAA |
| 2585 | sgNENF_5 | NENF | chr1 | 212617716 | + | ACGGGGAAGGACTCCACTAG |
| 2586 | sgNENF_6 | NENF | chr1 | 212617756 | - | GGTGAGGTCTGCAGGATCCA |
| 2587 | sgNENF_7 | NENF | chr1 | 212617778 | - | TAATCTGGCTCACAGTGTCA |
| 2588 | sgNENF_8 | NENF | chr1 | 212606322 | - | ACCAGGGCCAGCGCTGCCAG |
| 2589 | sgNENF_9 | NENF | chr1 | 212617703 | - | TCCCCGTCAAGGCATTGTAG |
| 2590 | sgNENF_10 | NENF | chr1 | 212617674 | + | ACTACAGAGTTTTATGGACG |
| 2591 | sgNFS1_1 | NFS1 | chr20 | 34260720 | - | GGAGGAAGTGGACTACACAG |
| 2592 | sgNFS1_2 | NFS1 | chr20 | 34263064 | - | GTGGAGGCCCTGCAGAGTGG |
| 2593 | sgNFS1_3 | NFS1 | chr20 | 34263011 | - | AGTGCCCACACCCTTAGTGG |
| 2594 | sgNFS1_4 | NFS1 | chr20 | 34262972 | - | TGAGGTGGCACAGCAAGAGA |
| 2595 | sgNFS1_5 | NFS1 | chr20 | 34262274 | - | ACGTTGCCTTATCCTCAGGG |
| 2596 | sgNFS1_6 | NFS1 | chr20 | 34260738 | - | TGGCCGCTTCACTACAGAGG |
| 2597 | sgNFS1_7 | NFS1 | chr20 | 34286476 | + | TCTGCGGGAACCGCAGACTG |
| 2598 | sgNFS1_8 | NFS1 | chr20 | 34285697 | + | AGCATGGCATCAAGCACCCG |
| 2599 | sgNFS1_9 | NFS1 | chr20 | 34262507 | - | GAATCTCAAAGTTGTCAGAG |
| 2600 | sgNFS1_10 | NFS1 | chr20 | 34287174 | - | TTGGAGGCGGGCGGCAGTGG |
| 2601 | sgNFU1_1 | NFU1 | chr2 | 69627516 | - | GCTGCAGTTTTATATTCCGG |
| 2602 | sgNFU1_2 | NFU1 | chr2 | 69642331 | + | GGTGTTTCCTCAGTAACCAG |
| 2603 | sgNFU1_3 | NFU1 | chr2 | 69627632 | - | GGAGGGGATGTAATCTACAA |
| 2604 | sgNFU1_4 | NFU1 | chr2 | 69642319 | - | GAAACACCTTCAGGAGAAGC |
| 2605 | sgNFU1_5 | NFU1 | chr2 | 69627498 | - | GGAGGTAGAAGGCGTAGAAC |
| 2606 | sgNFU1_6 | NFU1 | chr2 | 69627648 | - | AACTGTGCAGGAAGATGGAG |
| 2607 | sgNFU1_7 | NFU1 | chr2 | 69627596 | - | ATTGTACAGCTGAAACTCCA |
| 2608 | sgNFU1_8 | NFU1 | chr2 | 69642350 | - | CTTTGCATCTGGCTTACCCC |
| 2609 | sgNFU1_9 | NFU1 | chr2 | 69627660 | - | ACCTCACAGGCCAACTGTGC |
| 2610 | sgNFU1_10 | NFU1 | chr2 | 69650702 | + | ACAGTAATATACCTAGCCAG |
| 2611 | sgNGB_1 | NGB | chr14 | 77735567 | + | GTGGTCCAGGAACTCAGGCG |
| 2612 | sgNGB_2 | NGB | chr14 | 77734874 | - | GGAAGACCTGTCCTCACTGG |
| 2613 | sgNGB_3 | NGB | chr14 | 77735588 | + | GGAGAGACAGTCCTCTGGGC |
| 2614 | sgNGB_4 | NGB | chr14 | 77734842 | - | CCAGCCTGGGCAGGAAGCAC |
| 2615 | sgNGB_5 | NGB | chr14 | 77734820 | + | TGAGCTTCACACCCACTGCC |
| 2616 | sgNGB_6 | NGB | chr14 | 77735618 | + | GCGGCAGTTGTACTGGAAGA |
| 2617 | sgNGB_7 | NGB | chr14 | 77735602 | - | CCGCCAGTTCTCCAGCCCAG |
| 2618 | sgNGB_8 | NGB | chr14 | 77737201 | + | AGGACGGTGCCGTGCTCCAG |
| 2619 | sgNGB_9 | NGB | chr14 | 77735639 | + | GGGCAGCAGGTCAGGCTCCA |
| 2620 | sgNGB_10 | NGB | chr14 | 77734860 | + | GGCAAGGTACTCCTCCAGTG |
| 2621 | sgNIF3L1_1 | NIF3L1 | chr2 | 201756900 | + | GGAGGAGGTGCTGCAAAAGA |

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|---|---|---|---|---|---|---|
| 2622 | sgNIF3L1_2 | NIF3L1 | chr2 | 201758004 | + | GCTCCCAACTACCCTACAGA |
| 2623 | sgNIF3L1_3 | NIF3L1 | chr2 | 201760092 | + | GGAAATTCTGTCACTGGAGA |
| 2624 | sgNIF3L1_4 | NIF3L1 | chr2 | 201764106 | + | AGAGTCTCAAGTCAAAGTCG |
| 2625 | sgNIF3L1_5 | NIF3L1 | chr2 | 201756795 | - | CCCAACTCTCAGCAAACGAG |
| 2626 | sgNIF3L1_6 | NIF3L1 | chr2 | 201756879 | + | TGACCTGACTGAGGAAGTGA |
| 2627 | sgNIF3L1_7 | NIF3L1 | chr2 | 201757981 | - | GGAAGGATGTATGGGCCTGG |
| 2628 | sgNIF3L1_8 | NIF3L1 | chr2 | 201760029 | + | TCAGAAGGCTTTGATGCAGG |
| 2629 | sgNIF3L1_9 | NIF3L1 | chr2 | 201756813 | + | GGACAATGTTGGATTACTGG |
| 2630 | sgNIF3L1_10 | NIF3L1 | chr2 | 201756945 | - | TGGGTCGGAAGATAGGCGGA |
| 2631 | sgNOS1_1 | NOS1 | chr12 | 117715846 | + | GGAGCGGCAGGACATCGAAG |
| 2632 | sgNOS1_2 | NOS1 | chr12 | 117768815 | + | GAGACGAACAGAAATGACAT |
| 2633 | sgNOS1_3 | NOS1 | chr12 | 117768417 | + | GAGGCCCCATCCACTGCCAG |
| 2634 | sgNOS1_4 | NOS1 | chr12 | 117768279 | - | AGAGTCAGCCTCCAAGGCAG |
| 2635 | sgNOS1_5 | NOS1 | chr12 | 117768222 | - | GTGCTGAGCCTTCTCACCAG |
| 2636 | sgNOS1_6 | NOS1 | chr12 | 117768200 | - | GGAGCAGAGGGGTCAAGGGA |
| 2637 | sgNOS1_7 | NOS1 | chr12 | 117768157 | - | GAAAGATATGGGAATCCAGG |
| 2638 | sgNOS1_8 | NOS1 | chr12 | 117728141 | - | CAAGAACTGGGAGACTGAGG |
| 2639 | sgNOS1_9 | NOS1 | chr12 | 117723087 | + | GATGTAGTTGAACATCCCGT |
| 2640 | sgNOS1_10 | NOS1 | chr12 | 117710303 | + | GCATGTTGGACACGGCGGGG |
| 2641 | sgNOS2_1 | NOS2 | chr17 | 26125713 | + | AGGGAAAACTCACCTGGAGG |
| 2642 | sgNOS2_2 | NOS2 | chr17 | 26115892 | + | GATCCTCACATGCCGTGGGG |
| 2643 | sgNOS2_3 | NOS2 | chr17 | 26109987 | + | GGATCCTCCCAATGCAGCGT |
| 2644 | sgNOS2_4 | NOS2 | chr17 | 26107887 | - | CAAGTACGGCCGCTTCGATG |
| 2645 | sgNOS2_5 | NOS2 | chr17 | 26107829 | + | GGTGGGATTTCGAAGAGCTC |
| 2646 | sgNOS2_6 | NOS2 | chr17 | 26106033 | - | GTGGTACGCCCTGCCTGCAG |
| 2647 | sgNOS2_7 | NOS2 | chr17 | 26105910 | - | CCAGCGCTACAACATCCTGG |
| 2648 | sgNOS2_8 | NOS2 | chr17 | 26101341 | + | GTGATGCTCCCAGACATGGG |
| 2649 | sgNOS2_9 | NOS2 | chr17 | 26101318 | + | GCATCTCCTGGTGAAACACG |
| 2650 | sgNOS2_10 | NOS2 | chr17 | 26099381 | - | GACAGGAAAATCAGAGGCGC |
| 2651 | sgNOS3_1 | NOS3 | chr7 | 150693584 | + | GCAGCTGCTGAGTCAGGCCC |
| 2652 | sgNOS3_2 | NOS3 | chr7 | 150693856 | + | GCTCCCAGGCCCACGAACAG |
| 2653 | sgNOS3_3 | NOS3 | chr7 | 150693878 | + | GCTTCAAGAGGTGGAAGCCG |
| 2654 | sgNOS3_4 | NOS3 | chr7 | 150693979 | + | GCTGCGTGGGCCGGATCCAG |
| 2655 | sgNOS3_5 | NOS3 | chr7 | 150695505 | + | ATCAAGTATGCCACCAACCG |
| 2656 | sgNOS3_6 | NOS3 | chr7 | 150695747 | + | AGCCAACGTGGAGATCACCG |
| 2657 | sgNOS3_7 | NOS3 | chr7 | 150696320 | - | GCATGTTGGACACTGCCGGG |
| 2658 | sgNOS3_8 | NOS3 | chr7 | 150696431 | + | TCACCGCTACAACATCCTGG |
| 2659 | sgNOS3_9 | NOS3 | chr7 | 150697633 | + | GTGGAAAGACAAGGCAGCAG |
| 2660 | sgNOS3_10 | NOS3 | chr7 | 150698378 | + | GGAGAATGAGCAGAAGGCCA |
| 2661 | sgNOX1_1 | NOX1 | chrX | 100117712 | + | AGATAGGCTGGAGAGAATGG |
| 2662 | sgNOX1_2 | NOX1 | chrX | 100117461 | - | CAGCTACTGAGTTCATCCGG |
| 2663 | sgNOX1_3 | NOX1 | chrX | 100106242 | + | GCTGGGAGCGGTAAAACCGG |
| 2664 | sgNOX1_4 | NOX1 | chrX | 100117385 | + | TGCCGTGAATCCCTAAGCCA |
| 2665 | sgNOX1_5 | NOX1 | chrX | 100106224 | - | GCAGAAGGTTGTGATTACCA |
| 2666 | sgNOX1_6 | NOX1 | chrX | 100105329 | - | GAATTGCAGATGAACAAGCG |
| 2667 | sgNOX1_7 | NOX1 | chrX | 100105312 | - | GCGTGGCTTCAGCATGGAAG |
| 2668 | sgNOX1_8 | NOX1 | chrX | 100105223 | + | GAAATCTTCCTCTGGAGCAG |
| 2669 | sgNOX1_9 | NOX1 | chrX | 100104868 | - | GGATGTTTTCCAGTATGAAG |
| 2670 | sgNOX1_10 | NOX1 | chrX | 100104849 | - | GTGGCTGTGCTGGTTGGAGC |
| 2671 | sgNOX4_1 | NOX4 | chr11 | 89185019 | + | GAGGTTAAGAACAGATGCTG |
| 2672 | sgNOX4_2 | NOX4 | chr11 | 89165995 | - | GACAGGGGTCTGCATGGTGG |
| 2673 | sgNOX4_3 | NOX4 | chr11 | 89155092 | + | GCATGTAGAAGACAAAGAAG |
| 2674 | sgNOX4_4 | NOX4 | chr11 | 89073267 | - | GAGATATCCAGTCCTTCCGT |
| 2675 | sgNOX4_5 | NOX4 | chr11 | 89073252 | + | TAAATCTGCAAACCAACGGA |
| 2676 | sgNOX4_6 | NOX4 | chr11 | 89223629 | - | ACTACCTCCACCAGATGTTG |
| 2677 | sgNOX4_7 | NOX4 | chr11 | 89184949 | + | TTACCTTCTGTGATCCTCGG |
| 2678 | sgNOX4_8 | NOX4 | chr11 | 89133443 | + | ATGACTCATGACCGAAATGA |
| 2679 | sgNOX4_9 | NOX4 | chr11 | 89069054 | - | TGTTTATAGGACGTCCTCGG |
| 2680 | sgNOX4_10 | NOX4 | chr11 | 89184966 | - | ACACTCTTGGCTTACCTCCG |
| 2681 | sgNOX5_1 | NOX5 | chr15 | 69341367 | + | GGAGATGGACCAGGCCGAGG |
| 2682 | sgNOX5_2 | NOX5 | chr15 | 69325448 | - | GTGGTTGTGCCAGTAGGCGC |

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|---|---|---|---|---|---|---|
| 2683 | sgNOX5_3 | NOX5 | chr15 | 69325506 | - | GCCCGAAGAGCAGCACGTGG |
| 2684 | sgNOX5_4 | NOX5 | chr15 | 69327807 | + | GCTGTCCCTCGTGCACACCG |
| 2685 | sgNOX5_5 | NOX5 | chr15 | 69329397 | - | TGAGCAGAAGCCACACGAGG |
| 2686 | sgNOX5_6 | NOX5 | chr15 | 69318876 | + | GTGCCGAGGAGGATGCCAGG |
| 2687 | sgNOX5_7 | NOX5 | chr15 | 69320643 | - | GGGGCTGCCATGGATGAGCA |
| 2688 | sgNOX5_8 | NOX5 | chr15 | 69324024 | + | GAAGCTGGACCAGCTGACGC |
| 2689 | sgNOX5_9 | NOX5 | chr15 | 69325561 | + | GTCATGGTGGCCAAGGGCTG |
| 2690 | sgNOX5_10 | NOX5 | chr15 | 69327827 | - | AAAGTTCACAGTGTGAGCCA |
| 2691 | sgNPAS2_1 | NPAS2 | chr2 | 101604633 | + | GACTCAGCCCCAGCTCGGGG |
| 2692 | sgNPAS2_2 | NPAS2 | chr2 | 101541619 | + | ACAAGTCTGAGAAGAAGCGT |
| 2693 | sgNPAS2_3 | NPAS2 | chr2 | 101541715 | - | GATGACCTTTTCCAACACGG |
| 2694 | sgNPAS2_4 | NPAS2 | chr2 | 101580532 | - | GTTGTCAAAACCATTACAGG |
| 2695 | sgNPAS2_5 | NPAS2 | chr2 | 101580607 | - | TGGTGTTGCCAGACGAACGG |
| 2696 | sgNPAS2_6 | NPAS2 | chr2 | 101587449 | + | CAGTTACGCAGATGTCCGGG |
| 2697 | sgNPAS2_7 | NPAS2 | chr2 | 101591289 | - | AGTGTGTTAAAGTGCTGCCG |
| 2698 | sgNPAS2_8 | NPAS2 | chr2 | 101591349 | - | GAACTTCTTGAGGACGCCGA |
| 2699 | sgNPAS2_9 | NPAS2 | chr2 | 101598724 | + | TCAAAGACCAGCTAGAGCAG |
| 2700 | sgNPAS2_10 | NPAS2 | chr2 | 101598832 | - | GAAGGGGATCACCTGGACGT |
| 2701 | sgNR1D1_1 | NR1D1 | chr17 | 38250183 | - | GCTGGGCCTCTTCACCGCGG |
| 2702 | sgNR1D1_2 | NR1D1 | chr17 | 38253394 | + | GCTCCCATTATAGAAGGAGG |
| 2703 | sgNR1D1_3 | NR1D1 | chr17 | 38252159 | + | GGGTGAGGGGACCGGAGCAG |
| 2704 | sgNR1D1_4 | NR1D1 | chr17 | 38252138 | + | AAACTGGGAGAAGCCCACCA |
| 2705 | sgNR1D1_5 | NR1D1 | chr17 | 38252071 | - | GGAGGATGTGATATCCCAGG |
| 2706 | sgNR1D1_6 | NR1D1 | chr17 | 38251747 | - | GTATGCAGCCCCAGAAGGCA |
| 2707 | sgNR1D1_7 | NR1D1 | chr17 | 38251229 | + | GAGAAAGGTCACGGAAGCCC |
| 2708 | sgNR1D1_8 | NR1D1 | chr17 | 38253622 | + | GGAGCCACTGGAGCCAATGT |
| 2709 | sgNR1D1_9 | NR1D1 | chr17 | 38253601 | + | AGGGCTGGTGCGGCTTGGGG |
| 2710 | sgNR1D1_10 | NR1D1 | chr17 | 38253418 | + | GGATGACGACGAGGAAGATG |
| 2711 | sgNR1D2_1 | NR1D2 | chr3 | 23997587 | + | TATGGAGTTCATGCTTGCGA |
| 2712 | sgNR1D2_2 | NR1D2 | chr3 | 23996118 | - | AGATGGAACAGAAGAGGAGG |
| 2713 | sgNR1D2_3 | NR1D2 | chr3 | 24003903 | + | TCAATGGACAGTTCAAAGGG |
| 2714 | sgNR1D2_4 | NR1D2 | chr3 | 24006551 | + | TCCAGCAGTGAAAGAAGTGG |
| 2715 | sgNR1D2_5 | NR1D2 | chr3 | 23996079 | - | AGAACCCTCACTGTGACAAG |
| 2716 | sgNR1D2_6 | NR1D2 | chr3 | 24003542 | + | ATGATGAACAGCCAGTTCAG |
| 2717 | sgNR1D2_7 | NR1D2 | chr3 | 24006594 | - | TGAGAGAGATCTCTGAACCC |
| 2718 | sgNR1D2_8 | NR1D2 | chr3 | 24009390 | + | TTTACACTCAATGGGAGCAG |
| 2719 | sgNR1D2_9 | NR1D2 | chr3 | 23996244 | + | CAAGCAAATCGAGTGCACCT |
| 2720 | sgNR1D2_10 | NR1D2 | chr3 | 23997569 | + | GTGGCGTCAGGATTCCACTA |
| 2721 | sgNTHL1_1 | NTHL1 | chr16 | 2097817 | + | GCGGTCATGCCGGACTCCTG |
| 2722 | sgNTHL1_2 | NTHL1 | chr16 | 2094625 | + | GCTCACCCTCCAGAAACCGA |
| 2723 | sgNTHL1_3 | NTHL1 | chr16 | 2093675 | - | ATCCTGCAGCAGCACTACGG |
| 2724 | sgNTHL1_4 | NTHL1 | chr16 | 2090171 | - | GAAGGCAACCAAGTCCCCAG |
| 2725 | sgNTHL1_5 | NTHL1 | chr16 | 2097798 | + | CAGCATCCTCGCGCTCAAGG |
| 2726 | sgNTHL1_6 | NTHL1 | chr16 | 2097715 | + | GCAGCCTCTCTTCTCCGGAG |
| 2727 | sgNTHL1_7 | NTHL1 | chr16 | 2094738 | - | AACCAAAGACCAGGTGACGG |
| 2728 | sgNTHL1_8 | NTHL1 | chr16 | 2094666 | - | GCAGACAGATGATGCCACGC |
| 2729 | sgNTHL1_9 | NTHL1 | chr16 | 2093601 | - | CAAGATGGCACACCTGGCTA |
| 2730 | sgNTHL1_10 | NTHL1 | chr16 | 2090202 | - | ACAGAATCGCCAACAGGCTG |
| 2731 | sgNUBP1_1 | NUBP1 | chr16 | 10855271 | + | GAAGCTGCCCATCATCGGGG |
| 2732 | sgNUBP1_2 | NUBP1 | chr16 | 10855287 | + | GGGGTGGTGGAGAACATGAG |
| 2733 | sgNUBP1_3 | NUBP1 | chr16 | 10855625 | + | GATATTCCCTCCCACAACCG |
| 2734 | sgNUBP1_4 | NUBP1 | chr16 | 10855688 | - | GATCCAGGGGCACTCTGCCG |
| 2735 | sgNUBP1_5 | NUBP1 | chr16 | 10837807 | + | TCTCTGCGCAGACTGTCCAG |
| 2736 | sgNUBP1_6 | NUBP1 | chr16 | 10846514 | + | AATGGGATTGGAAGGAGAGC |
| 2737 | sgNUBP1_7 | NUBP1 | chr16 | 10850545 | + | AGTACGTGGAAGACAACCTG |
| 2738 | sgNUBP1_8 | NUBP1 | chr16 | 10855667 | - | GGAGAGGGACCTCCAAGTCC |
| 2739 | sgNUBP1_9 | NUBP1 | chr16 | 10855701 | - | CCACCTATGAGCGGATCCAG |
| 2740 | sgNUBP1_10 | NUBP1 | chr16 | 10837708 | + | CAAAGGCGACGGAATGGAGG |
| 2741 | sgNUBP2_1 | NUBP2 | chr16 | 1836824 | + | GCTGTGCACCAGTGCGACCG |
| 2742 | sgNUBP2_2 | NUBP2 | chr16 | 1836910 | + | GGAGAAGCCGGACGAGGCCG |
| 2743 | sgNUBP2_3 | NUBP2 | chr16 | 1837715 | + | GGAGCTGGACTACCTGGTGG |

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| 2744 | sgNUBP2_4 | NUBP2 | chr16 | 1837986 | + | GAAGACGGGCTTGCGGGTGA |
| 2745 | sgNUBP2_5 | NUBP2 | chr16 | 1836754 | + | GCAGGTGGGAATCCTGGATG |
| 2746 | sgNUBP2_6 | NUBP2 | chr16 | 1836844 | - | GGAAGACGGGTGCCCAGCCG |
| 2747 | sgNUBP2_7 | NUBP2 | chr16 | 1837747 | - | GTGCTCATCGGAGGTCCCCG |
| 2748 | sgNUBP2_8 | NUBP2 | chr16 | 1837774 | - | GGGACGCAGGGCTTCTATGG |
| 2749 | sgNUBP2_9 | NUBP2 | chr16 | 1836556 | - | CAGGATGATGTGCCTGACGC |
| 2750 | sgNUBP2_10 | NUBP2 | chr16 | 1837685 | + | AAAGCAGTTTGTGTCCGACG |
| 2751 | sgNUBPL_1 | NUBPL | chr14 | 32031310 | + | AGAACACAAATCATGTCCCG |
| 2752 | sgNUBPL_2 | NUBPL | chr14 | 32031376 | + | GTTGTGGCTTCTGGAAAGGG |
| 2753 | sgNUBPL_3 | NUBPL | chr14 | 32257016 | + | GTAGACATGCCACCAGGAAC |
| 2754 | sgNUBPL_4 | NUBPL | chr14 | 32295867 | + | GCATTGATGGATGCACACAA |
| 2755 | sgNUBPL_5 | NUBPL | chr14 | 32030682 | + | GTGTCGCTCCGGGCTGGTGG |
| 2756 | sgNUBPL_6 | NUBPL | chr14 | 32030732 | - | GGCGCCCACAAACCATCGCT |
| 2757 | sgNUBPL_7 | NUBPL | chr14 | 32142735 | + | GAGAGGCCTTATGGTAATGT |
| 2758 | sgNUBPL_8 | NUBPL | chr14 | 32257028 | - | TGCACATCTCCAGTTCCTGG |
| 2759 | sgNUBPL_9 | NUBPL | chr14 | 32315682 | - | TCATGTTTTGGACAAGGCCA |
| 2760 | sgNUBPL_10 | NUBPL | chr14 | 32315761 | + | AGGAAACTAGCACAGACCCT |
| 2761 | sgOGFOD1_1 | OGFOD1 | chr16 | 56485524 | + | GATGAATGGGAAGCGGCCAG |
| 2762 | sgOGFOD1_2 | OGFOD1 | chr16 | 56503957 | + | CATGTGGAATGGAGCAGCCG |
| 2763 | sgOGFOD1_3 | OGFOD1 | chr16 | 56504396 | + | CAGGTTTTATGAGAAAGCTG |
| 2764 | sgOGFOD1_4 | OGFOD1 | chr16 | 56504609 | + | TGAGCCAGAGAATAATCAGA |
| 2765 | sgOGFOD1_5 | OGFOD1 | chr16 | 56487201 | - | GGGATCACACAGTGAAGAAA |
| 2766 | sgOGFOD1_6 | OGFOD1 | chr16 | 56500071 | + | GCTGTGCCATGATGATGAGC |
| 2767 | sgOGFOD1_7 | OGFOD1 | chr16 | 56508813 | - | GGGCAAATTCAGCCTTGCTA |
| 2768 | sgOGFOD1_8 | OGFOD1 | chr16 | 56487239 | - | GAAGCCCTTCTAAGAAGTCT |
| 2769 | sgOGFOD1_9 | OGFOD1 | chr16 | 56500132 | - | CCCATGCTCCTGTCCCAGGG |
| 2770 | sgOGFOD1_10 | OGFOD1 | chr16 | 56500829 | - | AAAACCAGTTTGTTCCACGA |
| 2771 | sgOGFOD2_1 | OGFOD2 | chr12 | 123463070 | + | AATCGGACATGCCTAAGGGG |
| 2772 | sgOGFOD2_2 | OGFOD2 | chr12 | 123463302 | + | GCTGCTGCACGAGCTCGGGC |
| 2773 | sgOGFOD2_3 | OGFOD2 | chr12 | 123461194 | + | ACCCCAGCTTGAGCAGGAGG |
| 2774 | sgOGFOD2_4 | OGFOD2 | chr12 | 123461449 | - | GGACACGCTGTACTCAGTCA |
| 2775 | sgOGFOD2_5 | OGFOD2 | chr12 | 123463375 | + | GCCCTGCTGTACCCTGACTG |
| 2776 | sgOGFOD2_6 | OGFOD2 | chr12 | 123463419 | - | ATTTGACCACAAAGGCCCGG |
| 2777 | sgOGFOD2_7 | OGFOD2 | chr12 | 123461268 | + | CGAGTTCCTACCACCCGGCA |
| 2778 | sgOGFOD2_8 | OGFOD2 | chr12 | 123461281 | - | AGACCTCAGGCCGTGCCGGG |
| 2779 | sgOGFOD2_9 | OGFOD2 | chr12 | 123461293 | + | TGAGGTCTACGACTCACTGC |
| 2780 | sgOGFOD2_10 | OGFOD2 | chr12 | 123461435 | - | CAGTCACGGCCAGGAACTCG |
| 2781 | sgOGFOD3_1 | OGFOD3 | chr17 | 80356087 | - | GGAGGGTGCCAACAAGACGG |
| 2782 | sgOGFOD3_2 | OGFOD3 | chr17 | 80376347 | - | GTCCGATGGCTCCTCAGCGG |
| 2783 | sgOGFOD3_3 | OGFOD3 | chr17 | 80376324 | - | GCCGCAACCAAGGCGCCCGA |
| 2784 | sgOGFOD3_4 | OGFOD3 | chr17 | 80373463 | + | ACAGCCTCTGCACCTCCCGC |
| 2785 | sgOGFOD3_5 | OGFOD3 | chr17 | 80373439 | - | GAGGCCGTGGCTAAGGACCG |
| 2786 | sgOGFOD3_6 | OGFOD3 | chr17 | 80361932 | - | GGTCCAGCTCACCATTGCTG |
| 2787 | sgOGFOD3_7 | OGFOD3 | chr17 | 80356141 | - | GTACCTCTCCAACTACCTGG |
| 2788 | sgOGFOD3_8 | OGFOD3 | chr17 | 80356108 | - | AGGGCGGTTCATGTTCATGG |
| 2789 | sgOGFOD3_9 | OGFOD3 | chr17 | 80373482 | - | CCAAGAAGGACCGAGCCCCG |
| 2790 | sgOGFOD3_10 | OGFOD3 | chr17 | 80373452 | - | AGAGGCTGTGGCAGAGGCCG |
| 2791 | sgOSGEP_1 | OSGEP | chr14 | 20922739 | + | GGCGTGACGTAAGTCCGCCG |
| 2792 | sgOSGEP_2 | OSGEP | chr14 | 20920269 | + | ACAACAGCCACAGAAACCAG |
| 2793 | sgOSGEP_3 | OSGEP | chr14 | 20922756 | - | AGGTGCTGGCGAACCCGCGG |
| 2794 | sgOSGEP_4 | OSGEP | chr14 | 20920285 | + | CCAGTGGGGCACCCATGCCA |
| 2795 | sgOSGEP_5 | OSGEP | chr14 | 20917368 | - | GGAAACCATCGATATTGCAG |
| 2796 | sgOSGEP_6 | OSGEP | chr14 | 20916111 | - | AGAGATCACAGAGCGAGCCA |
| 2797 | sgOSGEP_7 | OSGEP | chr14 | 20915583 | - | GTGATTCTGGGGTTACACAG |
| 2798 | sgOSGEP_8 | OSGEP | chr14 | 20920491 | - | CGACTGCATTGCATACACCA |
| 2799 | sgOSGEP_9 | OSGEP | chr14 | 20920215 | + | CAGTGGTTCACACCCACCAA |
| 2800 | sgOSGEP_10 | OSGEP | chr14 | 20920198 | - | CTGTATAGGCCACATTGAGA |
| 2801 | sgP4HA1_1 | P4HA1 | chr10 | 74831888 | - | ACAGCGACAAAAGATCCAGA |
| 2802 | sgP4HA1_2 | P4HA1 | chr10 | 74810824 | - | GAAATGCTGTGCCGTGGGGA |
| 2803 | sgP4HA1_3 | P4HA1 | chr10 | 74806686 | - | TCAAAGACCTAGCAAAACCA |
| 2804 | sgP4HA1_4 | P4HA1 | chr10 | 74774018 | - | CAGATGCTTTCAAAGAGCTG |

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|---|---|---|---|---|---|---|
| 2805 | sgP4HA1_5 | P4HA1 | chr10 | 74828605 | + | TGGAAGATTACCCTTTGAGA |
| 2806 | sgP4HA1_6 | P4HA1 | chr10 | 74806775 | - | TCTGGCTCCAGCTAAACAGG |
| 2807 | sgP4HA1_7 | P4HA1 | chr10 | 74790040 | - | ACTAGATGTTTCCACAGCAG |
| 2808 | sgP4HA1_8 | P4HA1 | chr10 | 74813225 | - | GCCCTAAGGCAACTGGATGA |
| 2809 | sgP4HA1_9 | P4HA1 | chr10 | 74813151 | - | GGTATATCAGCAGGGAGACC |
| 2810 | sgP4HA1_10 | P4HA1 | chr10 | 74810810 | + | CCATTTTGATACCCTCCCCA |
| 2811 | sgP4HA2_1 | P4HA2 | chr5 | 131549623 | - | GACCCAGGCACAATTTCCAG |
| 2812 | sgP4HA2_2 | P4HA2 | chr5 | 131545974 | + | TACCAAGGGAGAGCAGGCGG |
| 2813 | sgP4HA2_3 | P4HA2 | chr5 | 131544913 | - | GCTGAGCTAGCAACCCCAGA |
| 2814 | sgP4HA2_4 | P4HA2 | chr5 | 131530626 | + | GCAGCCCACAAGCACAGGGC |
| 2815 | sgP4HA2_5 | P4HA2 | chr5 | 131553473 | - | GAAAGAGTACATCCTTGTGG |
| 2816 | sgP4HA2_6 | P4HA2 | chr5 | 131546172 | - | TGTGGATGACTGCTTTGGGA |
| 2817 | sgP4HA2_7 | P4HA2 | chr5 | 131546088 | - | AAAGCAGCTTGATGCCGGGG |
| 2818 | sgP4HA2_8 | P4HA2 | chr5 | 131546028 | + | ACTGGAAGACAGCATAGCTG |
| 2819 | sgP4HA2_9 | P4HA2 | chr5 | 131544845 | - | CGAGAGCCTCTGTCGTGGGG |
| 2820 | sgP4HA2_10 | P4HA2 | chr5 | 131543520 | + | GTGGGGCCCTGTTGCCATGG |
| 2821 | sgP4HA3_1 | P4HA3 | chr11 | 74015317 | - | GAGGCCAGTGAGAACATCCG |
| 2822 | sgP4HA3_2 | P4HA3 | chr11 | 74013462 | + | GGGGCTGTACAGGTCAGTGA |
| 2823 | sgP4HA3_3 | P4HA3 | chr11 | 74009307 | - | AGAGTGGAAGACAGAGGATG |
| 2824 | sgP4HA3_4 | P4HA3 | chr11 | 74000133 | + | GAAACTCCCGAGAGAGGCTG |
| 2825 | sgP4HA3_5 | P4HA3 | chr11 | 73997347 | + | TGACAGCCTCAGCTACCACG |
| 2826 | sgP4HA3_6 | P4HA3 | chr11 | 73996949 | - | GCTGCTCCAGCCCATCCGGA |
| 2827 | sgP4HA3_7 | P4HA3 | chr11 | 73996916 | + | GAGCAATGTAGGGCTCCAGG |
| 2828 | sgP4HA3_8 | P4HA3 | chr11 | 73988122 | + | CTGTGAGGGCAGCAATGCGG |
| 2829 | sgP4HA3_9 | P4HA3 | chr11 | 73988064 | - | GTGGTGAACTATGGCATCGG |
| 2830 | sgP4HA3_10 | P4HA3 | chr11 | 74022488 | - | GCTGAGGCGGTACCTGCGCG |
| 2831 | sgP4HTM_1 | P4HTM | chr3 | 49027773 | + | CCACTGCCAGGCTCAGGCGG |
| 2832 | sgP4HTM_2 | P4HTM | chr3 | 49027848 | - | AGGCGCGCGAGCAGATGCCG |
| 2833 | sgP4HTM_3 | P4HTM | chr3 | 49028338 | - | GCGGACTTACCGAAGAGCAG |
| 2834 | sgP4HTM_4 | P4HTM | chr3 | 49041667 | - | GGATGGCACGCATGATGTGG |
| 2835 | sgP4HTM_5 | P4HTM | chr3 | 49042348 | + | GCAGGTTGTTCGATATGGTG |
| 2836 | sgP4HTM_6 | P4HTM | chr3 | 49043516 | + | TGGACCTCCGTGACACACGG |
| 2837 | sgP4HTM_7 | P4HTM | chr3 | 49027697 | + | CAGCGGCGGTGACAGGCCAG |
| 2838 | sgP4HTM_8 | P4HTM | chr3 | 49027739 | + | AGGAGGCCTCGAGGCCGCAG |
| 2839 | sgP4HTM_9 | P4HTM | chr3 | 49027834 | - | ATGCCGCGGGGCTTGCACAG |
| 2840 | sgP4HTM_10 | P4HTM | chr3 | 49039004 | - | GCAGCCGGAAGAGGTCCAGC |
| 2841 | sgPAH_1 | PAH | chr12 | 103310882 | + | TGGGTTTTCCAGGACCGCAG |
| 2842 | sgPAH_2 | PAH | chr12 | 103271263 | - | TCAGATTCTCAGCTATGGAG |
| 2843 | sgPAH_3 | PAH | chr12 | 103310863 | + | AGAGTTTCCTGCCCAAGCCT |
| 2844 | sgPAH_4 | PAH | chr12 | 103288654 | + | GAGAAGGTCTAGATTCAATG |
| 2845 | sgPAH_5 | PAH | chr12 | 103246690 | + | GCAGGCCAGCCACAGGTCGG |
| 2846 | sgPAH_6 | PAH | chr12 | 103246664 | + | GCCACCCAAGAAATCCCGAG |
| 2847 | sgPAH_7 | PAH | chr12 | 103237505 | + | GCTGTCTTCTCCAGCTCCAG |
| 2848 | sgPAH_8 | PAH | chr12 | 103234236 | - | GCTACGACCCATACACCCAA |
| 2849 | sgPAH_9 | PAH | chr12 | 103310899 | - | GGGAGCCAGCATGTCCACTG |
| 2850 | sgPAH_10 | PAH | chr12 | 103310851 | - | GAAACTCTCTGACTTTGGAC |
| 2851 | sgPAPL_1 | PAPL | chr19 | 39589240 | - | GGTGTATGTAGAGCTTCCGC |
| 2852 | sgPAPL_2 | PAPL | chr19 | 39590919 | + | CATGCGGCTCATTGAACCCG |
| 2853 | sgPAPL_3 | PAPL | chr19 | 39590939 | - | GTACGGCAGGCTGGCAGCCA |
| 2854 | sgPAPL_4 | PAPL | chr19 | 39591417 | - | GAGAAAGAAATAGACCTCGG |
| 2855 | sgPAPL_5 | PAPL | chr19 | 39591448 | - | ACTGCCTCTGTACCAAGTGG |
| 2856 | sgPAPL_6 | PAPL | chr19 | 39591659 | - | GCAGTCGTCCAGATCTGCGT |
| 2857 | sgPAPL_7 | PAPL | chr19 | 39597612 | - | GGGCCTCGGGAAGACAGCAA |
| 2858 | sgPAPL_8 | PAPL | chr19 | 39589142 | - | AATTGCACTTCAGAGCGGGT |
| 2859 | sgPAPL_9 | PAPL | chr19 | 39589606 | + | GCTGTGGCAGTGCGCAGGGC |
| 2860 | sgPAPL_10 | PAPL | chr19 | 39589634 | - | GGGCCCTGAAGCGGAACCGA |
| 2861 | sgPER1_1 | PER1 | chr17 | 8053530 | + | GACGTACCTGCAGCCACTGG |
| 2862 | sgPER1_2 | PER1 | chr17 | 8052805 | + | GGGCAGGCGAGATGGAGCAG |
| 2863 | sgPER1_3 | PER1 | chr17 | 8049748 | + | GGAGGTGGTATAGGAGGAGG |
| 2864 | sgPER1_4 | PER1 | chr17 | 8046902 | + | CATTGGGGTCACCAAAGGGG |
| 2865 | sgPER1_5 | PER1 | chr17 | 8045189 | - | GGTTTTCTGAGGACCAGCGG |

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|---|---|---|---|---|---|---|
| 2866 | sgPER1_6 | PER1 | chr17 | 8052833 | + | TAGAAGACTCCCACATCCTG |
| 2867 | sgPER1_7 | PER1 | chr17 | 8051353 | + | GGATGCAGGAACAGGAGCAC |
| 2868 | sgPER1_8 | PER1 | chr17 | 8050658 | + | GCCGACTCCACAGAGTCCCG |
| 2869 | sgPER1_9 | PER1 | chr17 | 8050605 | - | GGGTCCTCCAGTGATAGCAA |
| 2870 | sgPER1_10 | PER1 | chr17 | 8049431 | + | CCAGACAGCGCTGCTGACGG |
| 2871 | sgPER3_1 | PER3 | chr1 | 7887729 | + | AAGTGGGAGGCACAAAGCGA |
| 2872 | sgPER3_2 | PER3 | chr1 | 7844927 | + | GAGACCTCGAGATGCCCCGC |
| 2873 | sgPER3_3 | PER3 | chr1 | 7845020 | + | GCCCCGAGTTCCATCTGCAG |
| 2874 | sgPER3_4 | PER3 | chr1 | 7870051 | + | GCACCGTGTGGAGGAGACGA |
| 2875 | sgPER3_5 | PER3 | chr1 | 7870600 | + | GGGACACGCACAGAACCGAA |
| 2876 | sgPER3_6 | PER3 | chr1 | 7880574 | + | GGACGGTCCATAGACACAGG |
| 2877 | sgPER3_7 | PER3 | chr1 | 7887334 | - | GGTGTGCGGAGAGGAGGCCG |
| 2878 | sgPER3_8 | PER3 | chr1 | 7887407 | - | GGAGGGGAAAAGCTGGGACG |
| 2879 | sgPER3_9 | PER3 | chr1 | 7890117 | - | CCTGCTGGGAGGCAATCCCA |
| 2880 | sgPER3_10 | PER3 | chr1 | 7890143 | - | ACAGTGGCAGTAGGATGGGA |
| 2881 | sgPGRMC1_1 | PGRMC1 | chrX | 118370361 | - | GCTCTCCAGATCGCTTGGGT |
| 2882 | sgPGRMC1_2 | PGRMC1 | chrX | 118370437 | - | TGTAGAGCAGGAAGATGCAG |
| 2883 | sgPGRMC1_3 | PGRMC1 | chrX | 118370525 | - | AAGTCGCGCCGCTTGAGGCG |
| 2884 | sgPGRMC1_4 | PGRMC1 | chrX | 118370587 | - | TGATGGCCATGAGTATGCGC |
| 2885 | sgPGRMC1_5 | PGRMC1 | chrX | 118370612 | + | AAGGTGTTCGATGTGACCAA |
| 2886 | sgPGRMC1_6 | PGRMC1 | chrX | 118370326 | + | CATGGCTGCCGAGGATGTGG |
| 2887 | sgPGRMC1_7 | PGRMC1 | chrX | 118374292 | + | GCTGGAAGAGATGCATCCAG |
| 2888 | sgPGRMC1_8 | PGRMC1 | chrX | 118370553 | - | GTCGAAGCGCCGCAGCTCGG |
| 2889 | sgPGRMC1_9 | PGRMC1 | chrX | 118374311 | - | GCAAAATGTGGCAAGGCCCC |
| 2890 | sgPGRMC1_10 | PGRMC1 | chrX | 118374369 | - | GGGCAGCAGTGAGGTCAGAA |
| 2891 | sgPGRMC2_1 | PGRMC2 | chr4 | 129208958 | - | GGGGAGGAGGAGGAAGGCGC |
| 2892 | sgPGRMC2_2 | PGRMC2 | chr4 | 129208932 | - | GCAGTGATGGCGGCTGGTGA |
| 2893 | sgPGRMC2_3 | PGRMC2 | chr4 | 129208878 | - | AGCGAGAGCAGCAACGACGG |
| 2894 | sgPGRMC2_4 | PGRMC2 | chr4 | 129208652 | + | CATGCGAGGCAGAGAGGTGG |
| 2895 | sgPGRMC2_5 | PGRMC2 | chr4 | 129208942 | - | GCGCTGGCGGGCAGTGATGG |
| 2896 | sgPGRMC2_6 | PGRMC2 | chr4 | 129208768 | - | AATGCTGCTGAACGTGGCGC |
| 2897 | sgPGRMC2_7 | PGRMC2 | chr4 | 129208611 | - | GAGCAGCTGCGCCAGTACGA |
| 2898 | sgPGRMC2_8 | PGRMC2 | chr4 | 129208722 | - | TACCGGCTGTGGGTGCGCTG |
| 2899 | sgPGRMC2_9 | PGRMC2 | chr4 | 129208576 | + | TGACCGCGAGCAGGATGCGC |
| 2900 | sgPGRMC2_10 | PGRMC2 | chr4 | 129208551 | - | AAAGTCTTCGACGTGACCAA |
| 2901 | sgPHF2_1 | PHF2 | chr9 | 96339043 | + | GCGGCGCGGCAACATGGCGA |
| 2902 | sgPHF2_2 | PHF2 | chr9 | 96438952 | - | GGTGCCGGCAGAGATGGAGG |
| 2903 | sgPHF2_3 | PHF2 | chr9 | 96392255 | + | TGTTGGGGTGGAAGAGGAGG |
| 2904 | sgPHF2_4 | PHF2 | chr9 | 96398706 | + | GACCTGGCACAAACACGGCC |
| 2905 | sgPHF2_5 | PHF2 | chr9 | 96398769 | - | GCAGCTCCTTGATGAAGAGC |
| 2906 | sgPHF2_6 | PHF2 | chr9 | 96408039 | - | GACGTCACTGACATAGAACG |
| 2907 | sgPHF2_7 | PHF2 | chr9 | 96411473 | - | GGTGTCAGAGAACTCGAGGT |
| 2908 | sgPHF2_8 | PHF2 | chr9 | 96418240 | - | GAAGGCCAGGCAGTCCACAG |
| 2909 | sgPHF2_9 | PHF2 | chr9 | 96418258 | - | GTGGAGGAAATGTCCCGCGA |
| 2910 | sgPHF2_10 | PHF2 | chr9 | 96425206 | + | GAGTGTGCCCAACAAAGATG |
| 2911 | sgPHF8_1 | PHF8 | chrX | 54040813 | + | GAGTACATGGTACCAGACAG |
| 2912 | sgPHF8_2 | PHF8 | chrX | 54037612 | - | GATGTTCTTTGGGGACCAGG |
| 2913 | sgPHF8_3 | PHF8 | chrX | 54029059 | + | AGAAGTTCCCTCCAAAGGCA |
| 2914 | sgPHF8_4 | PHF8 | chrX | 54028676 | - | GAGCCTATGAGATTGAGAAG |
| 2915 | sgPHF8_5 | PHF8 | chrX | 54014289 | - | GCTGATGGCAGAACAGGTGA |
| 2916 | sgPHF8_6 | PHF8 | chrX | 54012364 | - | GGAGGACTATACAACAGATG |
| 2917 | sgPHF8_7 | PHF8 | chrX | 54011416 | - | CTGGAGAACCGAGAGCGAGG |
| 2918 | sgPHF8_8 | PHF8 | chrX | 53970623 | + | GGGTCCCCTCACGCACAGGA |
| 2919 | sgPHF8_9 | PHF8 | chrX | 54069155 | - | GGGCCGAGCGAAGATGGCCT |
| 2920 | sgPHF8_10 | PHF8 | chrX | 54069135 | + | GAGGCAATACACCGGCACCG |
| 2921 | sgPHYH_1 | PHYH | chr10 | 13336430 | - | CAGATACTGCACTCTCCCCG |
| 2922 | sgPHYH_2 | PHYH | chr10 | 13325764 | - | GGTGCACCTGGTGATGGAGA |
| 2923 | sgPHYH_3 | PHYH | chr10 | 13325704 | - | ATCTGGTCAGAATAAAACCC |
| 2924 | sgPHYH_4 | PHYH | chr10 | 13323035 | - | CAGTCAAGAAAACATCGAGA |
| 2925 | sgPHYH_5 | PHYH | chr10 | 13336484 | - | AAGTGAGAAGATGATCACGA |
| 2926 | sgPHYH_6 | PHYH | chr10 | 13325785 | - | CTACGAGGAAAACAAGGCCC |

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| 2927 | sgPHYH_7 | PHYH | chr10 | 13330430 | - | GAGCACATCAGCCGGAACAA |
| 2928 | sgPHYH_8 | PHYH | chr10 | 13330397 | - | GTGCTCCCAGGCACACACAA |
| 2929 | sgPHYH_9 | PHYH | chr10 | 13330350 | + | GCAGACCTACCTCCCACTTG |
| 2930 | sgPHYH_10 | PHYH | chr10 | 13323069 | + | AATGTAGTGGCAATCGGCAC |
| 2931 | sgPHYHD1_1 | PHYHD1 | chr9 | 131684604 | - | CGAGGGGCTCAGGCAGGCCA |
| 2932 | sgPHYHD1_2 | PHYHD1 | chr9 | 131702700 | + | GCTGGGCGTGTGGATCGCAG |
| 2933 | sgPHYHD1_3 | PHYHD1 | chr9 | 131702980 | - | CCTACCTCTCTGCACTGGGG |
| 2934 | sgPHYHD1_4 | PHYHD1 | chr9 | 131684614 | + | GAGCCCCTCGCAGCTCCAGA |
| 2935 | sgPHYHD1_5 | PHYHD1 | chr9 | 131689371 | + | GTGGCCATGCAACAAAGGAT |
| 2936 | sgPHYHD1_6 | PHYHD1 | chr9 | 131696067 | + | ACAGACTATTTCTTGAGCAG |
| 2937 | sgPHYHD1_7 | PHYHD1 | chr9 | 131702669 | - | GGGCTCCGTGTACAGGAAGG |
| 2938 | sgPHYHD1_8 | PHYHD1 | chr9 | 131702876 | + | AGGTGGTGTGTCAAGAAGGA |
| 2939 | sgPHYHD1_9 | PHYHD1 | chr9 | 131703731 | + | GGTCCTCATCCATGGAGAAG |
| 2940 | sgPHYHD1_10 | PHYHD1 | chr9 | 131703832 | - | CCAGTTCTCCGGGCTCCAGG |
| 2941 | sgPIR_1 | PIR | chrX | 15509287 | - | GAGAAGCATTGGCAGACCCG |
| 2942 | sgPIR_2 | PIR | chrX | 15509298 | - | GCGAGGGTCCGGAGAAGCAT |
| 2943 | sgPIR_3 | PIR | chrX | 15477793 | - | CACACTGGTAAAATGAACCC |
| 2944 | sgPIR_4 | PIR | chrX | 15477845 | - | GGTATCCTACCTCCTGGAAG |
| 2945 | sgPIR_5 | PIR | chrX | 15474168 | - | GTGTTTGCAGTGGATGACTG |
| 2946 | sgPIR_6 | PIR | chrX | 15509351 | + | TGAGAGAGTAACTTTCTTGG |
| 2947 | sgPIR_7 | PIR | chrX | 15509314 | - | GTCGGAAGGGGTTGGAGCGA |
| 2948 | sgPIR_8 | PIR | chrX | 15497871 | + | GGATGATCAGGAAATCCTCC |
| 2949 | sgPIR_9 | PIR | chrX | 15497850 | + | ACTGTTTCAAAACCTCGATG |
| 2950 | sgPIR_10 | PIR | chrX | 15444090 | + | TGGTGTGCGAGTGTAAACCT |
| 2951 | sgPLOD1_1 | PLOD1 | chr1 | 11994872 | + | GCTGCTGCTGGCCGAAGCGA |
| 2952 | sgPLOD1_2 | PLOD1 | chr1 | 12010522 | + | GCTGGAGACCAAGTATCCGG |
| 2953 | sgPLOD1_3 | PLOD1 | chr1 | 11994890 | + | GAAGGGCGACGCCAAGCCGG |
| 2954 | sgPLOD1_4 | PLOD1 | chr1 | 12008034 | + | CAACCTTTTAGTCCTCACGG |
| 2955 | sgPLOD1_5 | PLOD1 | chr1 | 12008052 | + | GGTGGCCACTAAGGAGACCG |
| 2956 | sgPLOD1_6 | PLOD1 | chr1 | 12008082 | - | GAGCTGAGCGCTTGAAGCGA |
| 2957 | sgPLOD1_7 | PLOD1 | chr1 | 12009844 | + | GGAGGACTGGAATGTGGAGA |
| 2958 | sgPLOD1_8 | PLOD1 | chr1 | 12009916 | + | GGAGAAGCACGCAGACAAGG |
| 2959 | sgPLOD1_9 | PLOD1 | chr1 | 12014886 | + | GGAGCAGATCAATATCACCC |
| 2960 | sgPLOD1_10 | PLOD1 | chr1 | 12014913 | - | TCTGGAAGATACGGCAGCGG |
| 2961 | sgPLOD2_1 | PLOD2 | chr3 | 145878707 | + | GACAGGGATTCCAGGGGTGG |
| 2962 | sgPLOD2_2 | PLOD2 | chr3 | 145839007 | - | CAAGGAGAAGAATGGAGAGG |
| 2963 | sgPLOD2_3 | PLOD2 | chr3 | 145806422 | + | AACAATATGTCCAGAAACCG |
| 2964 | sgPLOD2_4 | PLOD2 | chr3 | 145828168 | - | CCAAAAGGCAAACCACAAAG |
| 2965 | sgPLOD2_5 | PLOD2 | chr3 | 145828074 | - | AAACGCTATCTGAATTCAGG |
| 2966 | sgPLOD2_6 | PLOD2 | chr3 | 145799611 | - | TAACTCGTCATGGAAAGCTG |
| 2967 | sgPLOD2_7 | PLOD2 | chr3 | 145828152 | - | AAAGTGGTCTTTGCAGCAGA |
| 2968 | sgPLOD2_8 | PLOD2 | chr3 | 145789194 | - | TAGGATAGCCGTATATCTGG |
| 2969 | sgPLOD2_9 | PLOD2 | chr3 | 145878733 | + | AGCGCCAGGAGCAGCAGCTG |
| 2970 | sgPLOD2_10 | PLOD2 | chr3 | 145878670 | - | AAGCCCTCGAGCATCCCCAC |
| 2971 | sgPLOD3_1 | PLOD3 | chr7 | 100859756 | - | GTGGAGGACAGAAGGTCCGG |
| 2972 | sgPLOD3_2 | PLOD3 | chr7 | 100855908 | + | AACACGGCCAGAAACACCCG |
| 2973 | sgPLOD3_3 | PLOD3 | chr7 | 100860512 | + | GGCAGCAGCAGCAGGAACCG |
| 2974 | sgPLOD3_4 | PLOD3 | chr7 | 100860047 | - | GAAGCTGCTGGTGATCACTG |
| 2975 | sgPLOD3_5 | PLOD3 | chr7 | 100860028 | - | GTGGCCACAGCTGAAACCGA |
| 2976 | sgPLOD3_6 | PLOD3 | chr7 | 100859990 | + | TGAAGAACTCCGCAGAGCGC |
| 2977 | sgPLOD3_7 | PLOD3 | chr7 | 100859775 | - | GATGTGGCTCGAACAGTTGG |
| 2978 | sgPLOD3_8 | PLOD3 | chr7 | 100856144 | - | GCTTCTGCAACCAGGACCGG |
| 2979 | sgPLOD3_9 | PLOD3 | chr7 | 100855858 | + | GTAGCAGCCGCTGCAGGAAG |
| 2980 | sgPLOD3_10 | PLOD3 | chr7 | 100855597 | + | GAGAAGTGGTCCTGGAGCTG |
| 2981 | sgPOLA1_1 | POLA1 | chrX | 24735558 | + | AGAGGAAGTGAAACAAGAGG |
| 2982 | sgPOLA1_2 | POLA1 | chrX | 24745991 | - | AAAGCCATCACGACAAGCGG |
| 2983 | sgPOLA1_3 | POLA1 | chrX | 24750550 | - | CAGAAGTGTGACTGAAAGGG |
| 2984 | sgPOLA1_4 | POLA1 | chrX | 24763638 | + | AGAGGCACAGAAAGTTACAG |
| 2985 | sgPOLA1_5 | POLA1 | chrX | 24767088 | + | GGTGACATACAAAGGAAGGG |
| 2986 | sgPOLA1_6 | POLA1 | chrX | 24906218 | + | GAAAGCTACACTTCAACCAG |
| 2987 | sgPOLA1_7 | POLA1 | chrX | 24735049 | - | AGAGGAACAGGAGTTAATGG |

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|---|---|---|---|---|---|---|
| 2988 | sgPOLA1_8 | POLA1 | chrX | 24735423 | + | CGAGAGTACAGAAGAAGAGC |
| 2989 | sgPOLA1_9 | POLA1 | chrX | 24735486 | + | GCCCATGGAAGTTGAAGAGG |
| 2990 | sgPOLA1_10 | POLA1 | chrX | 24757507 | + | GGTGAAAGAAATGCTACCTG |
| 2991 | sgPOLD1_1 | POLD1 | chr19 | 50902104 | + | GCAGGATGGATGGCAAGCGG |
| 2992 | sgPOLD1_2 | POLD1 | chr19 | 50905492 | - | GGTGATGCGCAGGAACGGGG |
| 2993 | sgPOLD1_3 | POLD1 | chr19 | 50919733 | - | GGATGGGCTCGAAGATGCGC |
| 2994 | sgPOLD1_4 | POLD1 | chr19 | 50902174 | - | GTGCATCATCATCATCCCAG |
| 2995 | sgPOLD1_5 | POLD1 | chr19 | 50902213 | + | GGAGGACCTGGCACTGATGG |
| 2996 | sgPOLD1_6 | POLD1 | chr19 | 50902252 | + | CAGGCTGCAGGAGCAGGAGG |
| 2997 | sgPOLD1_7 | POLD1 | chr19 | 50905075 | - | GGAGCACAGGCACGGAGCCG |
| 2998 | sgPOLD1_8 | POLD1 | chr19 | 50905502 | - | GCAGCGCCACGGTGATGCGC |
| 2999 | sgPOLD1_9 | POLD1 | chr19 | 50905911 | + | GTGGTCAGTCACCCACCGGA |
| 3000 | sgPOLD1_10 | POLD1 | chr19 | 50906437 | + | CAAGGTGCAGAGCTACGAGA |
| 3001 | sgPOLE_1 | POLE | chr12 | 133241964 | - | GAAGCGCTGCAAGAACATGG |
| 3002 | sgPOLE_2 | POLE | chr12 | 133226002 | - | GCAGCGTCTGGAGTCGGCAG |
| 3003 | sgPOLE_3 | POLE | chr12 | 133225538 | - | CCAGCGAGTCGCTAAAGCGG |
| 3004 | sgPOLE_4 | POLE | chr12 | 133214608 | + | GATGTACTCCACGTAAGCGA |
| 3005 | sgPOLE_5 | POLE | chr12 | 133210946 | - | GCAAGACTCCCAGAAAGCAG |
| 3006 | sgPOLE_6 | POLE | chr12 | 133208942 | + | GCAGCAAGTGGGAACCGGGG |
| 3007 | sgPOLE_7 | POLE | chr12 | 133263885 | - | TCCATGTCTCTGAGGAGCGG |
| 3008 | sgPOLE_8 | POLE | chr12 | 133257234 | - | TAAGCGCTTAGGCAGTGCAG |
| 3009 | sgPOLE_9 | POLE | chr12 | 133256180 | - | GCTGTCCTTCCACACTGTGG |
| 3010 | sgPOLE_10 | POLE | chr12 | 133254169 | + | GGATCTTCAGGTCAATGGAG |
| 3011 | sgPPAT_1 | PPAT | chr4 | 57267553 | - | AAGGTCTGAAGGAAACCCAG |
| 3012 | sgPPAT_2 | PPAT | chr4 | 57273850 | - | GCTGGTATTGTGACTAGTGA |
| 3013 | sgPPAT_3 | PPAT | chr4 | 57267018 | - | GCTAGCGATTGAAGCACCTG |
| 3014 | sgPPAT_4 | PPAT | chr4 | 57269244 | - | GGAAATCGTCCCTTATGCAT |
| 3015 | sgPPAT_5 | PPAT | chr4 | 57268318 | - | ATCAGAAACAGAAGGATGGG |
| 3016 | sgPPAT_6 | PPAT | chr4 | 57267498 | - | AGACCAGACAGTATGTTCGA |
| 3017 | sgPPAT_7 | PPAT | chr4 | 57273868 | - | CACAGGGGTCAGGAGAGTGC |
| 3018 | sgPPAT_8 | PPAT | chr4 | 57266957 | - | CCTGCTGCTCTTGCTTACGC |
| 3019 | sgPPAT_9 | PPAT | chr4 | 57301531 | - | GTGATCACTCTGGGACTCGT |
| 3020 | sgPPAT_10 | PPAT | chr4 | 57301518 | - | GACTCGTGGGGCTGCAGCAC |
| 3021 | sgPPP1CA_1 | PPP1CA | chr11 | 67168214 | + | GGAGCAGGAAGAAGTTCTCG |
| 3022 | sgPPP1CA_2 | PPP1CA | chr11 | 67167111 | - | GACGCTACAACATCAAACTG |
| 3023 | sgPPP1CA_3 | PPP1CA | chr11 | 67167081 | + | GCAGTTGAAGCAGTCAGTGA |
| 3024 | sgPPP1CA_4 | PPP1CA | chr11 | 67166496 | - | GGCTGGGGCGAGAACGACCG |
| 3025 | sgPPP1CA_5 | PPP1CA | chr11 | 67166476 | + | CAAAGGTAAAAGAGACGCCA |
| 3026 | sgPPP1CA_6 | PPP1CA | chr11 | 67166431 | + | GGTCCAAGTCGTGCTTGTGG |
| 3027 | sgPPP1CA_7 | PPP1CA | chr11 | 67167034 | - | AAGATCTTCTGCTGCCACGG |
| 3028 | sgPPP1CA_8 | PPP1CA | chr11 | 67166545 | + | GCAGGTCACACAGCAGGCCC |
| 3029 | sgPPP1CA_9 | PPP1CA | chr11 | 67166511 | - | GACAAGGACGTGCAGGGCTG |
| 3030 | sgPPP1CA_10 | PPP1CA | chr11 | 67168312 | + | AAGAGGTAGTTGCTCTCGGG |
| 3031 | sgPPP3CA_1 | PPP3CA | chr4 | 102267905 | - | GTTGTCGACGACCGACAGGG |
| 3032 | sgPPP3CA_2 | PPP3CA | chr4 | 102030134 | + | CAACATAGTCCCCTAAGAAG |
| 3033 | sgPPP3CA_3 | PPP3CA | chr4 | 101953462 | - | CCAACTGGCATGCTCCCCAG |
| 3034 | sgPPP3CA_4 | PPP3CA | chr4 | 102019592 | + | TCATCAGGGCAGCCAGGGGA |
| 3035 | sgPPP3CA_5 | PPP3CA | chr4 | 101953426 | - | GGGAAGCAAACCCTGCAAAG |
| 3036 | sgPPP3CA_6 | PPP3CA | chr4 | 102019567 | - | CAGTTCCTGTGTGTGCATGG |
| 3037 | sgPPP3CA_7 | PPP3CA | chr4 | 102015022 | - | GACCTATGTGTGATATCCTG |
| 3038 | sgPPP3CA_8 | PPP3CA | chr4 | 101982255 | - | GAACTAGGGTCAGAAGAAGA |
| 3039 | sgPPP3CA_9 | PPP3CA | chr4 | 102117175 | - | AAAGGCGCATCTTATGAAGG |
| 3040 | sgPPP3CA_10 | PPP3CA | chr4 | 102030182 | - | GATGAAGCTCTTTGAAGTCG |
| 3041 | sgPPP3CB_1 | PPP3CB | chr10 | 75204502 | - | GTGGAGTGTTAGCTGGAGGA |
| 3042 | sgPPP3CB_2 | PPP3CB | chr10 | 75204485 | - | GGACGGCAGACCCTGCAAAG |
| 3043 | sgPPP3CB_3 | PPP3CB | chr10 | 75239239 | + | TCAGATGTCAAGCGATGTGT |
| 3044 | sgPPP3CB_4 | PPP3CB | chr10 | 75239190 | + | GTTCTTCAGAACATCAACCC |
| 3045 | sgPPP3CB_5 | PPP3CB | chr10 | 75239103 | + | GGTTTTCTCTCTCCGAAGGA |
| 3046 | sgPPP3CB_6 | PPP3CB | chr10 | 75231269 | - | CAGTTTCTTTGTGTTCATGG |
| 3047 | sgPPP3CB_7 | PPP3CB | chr10 | 75230927 | + | CACATTGGTCCAAATGCAGG |
| 3048 | sgPPP3CB_8 | PPP3CB | chr10 | 75230912 | + | GACCATAACAAGTCACACAT |

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|---|---|---|---|---|---|---|
| 3049 | sgPPP3CB_9 | PPP3CB | chr10 | 75206275 | - | AATTCGAGCAATTGGCAAGA |
| 3050 | sgPPP3CB_10 | PPP3CB | chr10 | 75255564 | + | TTTGACGACGCGGTCAGCCC |
| 3051 | sgPPP3CC_1 | PPP3CC | chr8 | 22298912 | + | CCGAGGGGACCATGTCCGGG |
| 3052 | sgPPP3CC_2 | PPP3CC | chr8 | 22370906 | + | ATACCCACAACACTGTCCGA |
| 3053 | sgPPP3CC_3 | PPP3CC | chr8 | 22298924 | - | GTGGAAGCGCCTCCCGGACA |
| 3054 | sgPPP3CC_4 | PPP3CC | chr8 | 22368681 | - | CATGTACACAGAGAAACTGC |
| 3055 | sgPPP3CC_5 | PPP3CC | chr8 | 22370827 | - | CACACAGGTCCAAAGGCGGG |
| 3056 | sgPPP3CC_6 | PPP3CC | chr8 | 22370853 | + | GCTTTGGTCTGATCCCTCAG |
| 3057 | sgPPP3CC_7 | PPP3CC | chr8 | 22380192 | - | GTGATGGAAAGCCTGTGGCT |
| 3058 | sgPPP3CC_8 | PPP3CC | chr8 | 22389786 | - | GACCCGTGCCATCTTCCCAA |
| 3059 | sgPPP3CC_9 | PPP3CC | chr8 | 22370842 | - | GACCAAAGCAGGTCACACAC |
| 3060 | sgPPP3CC_10 | PPP3CC | chr8 | 22298951 | - | TTTGATGACGCGGTCGGTGG |
| 3061 | sgPTGES2_1 | PTGES2 | chr9 | 130885398 | - | GCAGGGAGGAGATGAAGTGG |
| 3062 | sgPTGES2_2 | PTGES2 | chr9 | 130889766 | - | GGCTGTACCACACGGCGCGG |
| 3063 | sgPTGES2_3 | PTGES2 | chr9 | 130887546 | - | CAGAAAGGTGCCCATCCTGG |
| 3064 | sgPTGES2_4 | PTGES2 | chr9 | 130886791 | + | GAGGGCGCTGATGATGACAG |
| 3065 | sgPTGES2_5 | PTGES2 | chr9 | 130886104 | + | TAGGTGATGATCTCTTCCAG |
| 3066 | sgPTGES2_6 | PTGES2 | chr9 | 130885999 | - | GAGGCCCAGCAAGTGTATGG |
| 3067 | sgPTGES2_7 | PTGES2 | chr9 | 130885280 | - | GGGCAAGTTCGGAGCCGTGG |
| 3068 | sgPTGES2_8 | PTGES2 | chr9 | 130887684 | + | GGTACAGGGTCAGCTGCAGG |
| 3069 | sgPTGES2_9 | PTGES2 | chr9 | 130887592 | - | TGGAGGTGAACCCTGTGCGC |
| 3070 | sgPTGES2_10 | PTGES2 | chr9 | 130886066 | - | TGTGAACGAGCAGGGCAAGG |
| 3071 | sgPTGIS_1 | PTGIS | chr20 | 48130897 | + | GAGCAGGAGCCAGAAGGCAG |
| 3072 | sgPTGIS_2 | PTGIS | chr20 | 48184569 | + | AGGACACTCACCGCGTGCGG |
| 3073 | sgPTGIS_3 | PTGIS | chr20 | 48166688 | + | GGGATGCTGCCCAGGTCCAG |
| 3074 | sgPTGIS_4 | PTGIS | chr20 | 48166668 | + | CCAAGGCATACCCCAACCAG |
| 3075 | sgPTGIS_5 | PTGIS | chr20 | 48164502 | - | GGACCCACACTCCTACGACG |
| 3076 | sgPTGIS_6 | PTGIS | chr20 | 48160849 | + | GGAAGCTGTAGGAGAAGTCG |
| 3077 | sgPTGIS_7 | PTGIS | chr20 | 48140660 | - | GAGTTACCTGCTGCACCTGG |
| 3078 | sgPTGIS_8 | PTGIS | chr20 | 48129619 | - | AGAAATCTACACAGACCCAG |
| 3079 | sgPTGIS_9 | PTGIS | chr20 | 48184608 | + | GCAGCAACAGTGCGGCCAGG |
| 3080 | sgPTGIS_10 | PTGIS | chr20 | 48156146 | + | GGTCGAGCTGGCGAAAGGTG |
| 3081 | sgPTGS1_1 | PTGS1 | chr9 | 125143687 | - | TCCTCCTGAGCAGGAAGCGG |
| 3082 | sgPTGS1_2 | PTGS1 | chr9 | 125143771 | - | CAGAAGTTTTGAAGAACTGG |
| 3083 | sgPTGS1_3 | PTGS1 | chr9 | 125143795 | + | GATGGGTCCTGGCTTCACCA |
| 3084 | sgPTGS1_4 | PTGS1 | chr9 | 125145889 | - | GAAGCAGCCCAAACACCTCC |
| 3085 | sgPTGS1_5 | PTGS1 | chr9 | 125145911 | - | GTGGCATACAGCATGAGCCC |
| 3086 | sgPTGS1_6 | PTGS1 | chr9 | 125141159 | - | GGGGCAATCTTTAGGCACAG |
| 3087 | sgPTGS1_7 | PTGS1 | chr9 | 125143734 | - | AAAGAAGGCAAACATGAGGT |
| 3088 | sgPTGS1_8 | PTGS1 | chr9 | 125145815 | - | ACAGGCGCCTCTTCTACCGA |
| 3089 | sgPTGS1_9 | PTGS1 | chr9 | 125145971 | + | AAGGCTGAGCACCCCACCTG |
| 3090 | sgPTGS1_10 | PTGS1 | chr9 | 125145985 | - | GCTGCTCATCGCCCCAGGTG |
| 3091 | sgPTGS2_1 | PTGS2 | chr1 | 186646814 | - | TCAAGACAGATCATAAGCGA |
| 3092 | sgPTGS2_2 | PTGS2 | chr1 | 186648275 | + | GTAGTGCACTGTGTTTGGAG |
| 3093 | sgPTGS2_3 | PTGS2 | chr1 | 186647438 | + | GGGCTCTAGTATAATAGGAG |
| 3094 | sgPTGS2_4 | PTGS2 | chr1 | 186646887 | - | AAGTTCATCCCTGATCCCCA |
| 3095 | sgPTGS2_5 | PTGS2 | chr1 | 186645764 | + | GATGCTCAGGGACTTGAGGA |
| 3096 | sgPTGS2_6 | PTGS2 | chr1 | 186647413 | + | GGGCAATCATCAGGCACAGG |
| 3097 | sgPTGS2_7 | PTGS2 | chr1 | 186646792 | - | GCCAGCTTTCACCAACGGGC |
| 3098 | sgPTGS2_8 | PTGS2 | chr1 | 186645752 | - | TGAGCATCTACGGTTTGCTG |
| 3099 | sgPTGS2_9 | PTGS2 | chr1 | 186645693 | - | TGTATGCCACAATCTGGCTG |
| 3100 | sgPTGS2_10 | PTGS2 | chr1 | 186645643 | - | AAACAGGAGCATCCTGAATG |
| 3101 | sgPXDN_1 | PXDN | chr2 | 1680752 | + | GAAGTACACGGTGTTCCCCG |
| 3102 | sgPXDN_2 | PXDN | chr2 | 1652965 | + | GGATCATGACAGAGAAGCAG |
| 3103 | sgPXDN_3 | PXDN | chr2 | 1652333 | + | GCCAAACCTGAAGGCCGCGG |
| 3104 | sgPXDN_4 | PXDN | chr2 | 1748211 | - | GCCATGGCCAAGCGCTCCAG |
| 3105 | sgPXDN_5 | PXDN | chr2 | 1748176 | + | GCACGAGCGCCAACAGGCAG |
| 3106 | sgPXDN_6 | PXDN | chr2 | 1748072 | + | CAGATGCATGCAGCGCACGG |
| 3107 | sgPXDN_7 | PXDN | chr2 | 1684092 | - | ACTGCGACTGTGAAATCCTG |
| 3108 | sgPXDN_8 | PXDN | chr2 | 1680809 | - | GGTTGGGCACAGAAAGGCCC |
| 3109 | sgPXDN_9 | PXDN | chr2 | 1670223 | - | AATCCAGCCACAGAATACAG |

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|---|---|---|---|---|---|---|
| 3110 | sgPXDN_10 | PXDN | chr2 | 1670196 | - | GGTTGGGGAGAGCGTCACGC |
| 3111 | sgPXDNL_1 | PXDNL | chr8 | 52284469 | - | GAACTGCAGCGAGATCCCGA |
| 3112 | sgPXDNL_2 | PXDNL | chr8 | 52721799 | + | GGACGGTGCTCTTAAAGCAA |
| 3113 | sgPXDNL_3 | PXDNL | chr8 | 52721778 | + | CCAGCATCAAGTGCATGCAG |
| 3114 | sgPXDNL_4 | PXDNL | chr8 | 52361654 | + | GGGGTTACTGTAAATTGTGG |
| 3115 | sgPXDNL_5 | PXDNL | chr8 | 52361570 | + | GTCCAGACAATAACAGGAGG |
| 3116 | sgPXDNL_6 | PXDNL | chr8 | 52321827 | + | ACTGTGGCGACCAGCCGGGG |
| 3117 | sgPXDNL_7 | PXDNL | chr8 | 52321598 | + | GAAGAGCATGCAGGGCGCGT |
| 3118 | sgPXDNL_8 | PXDNL | chr8 | 52321379 | + | GGGCAATAAGGGCTTTCCGG |
| 3119 | sgPXDNL_9 | PXDNL | chr8 | 52321259 | + | GAACCACAGGGTGTGCATGG |
| 3120 | sgPXDNL_10 | PXDNL | chr8 | 52321243 | - | GTTCCGGGAACACAACAGGA |
| 3121 | sgREV3L_1 | REV3L | chr6 | 111709087 | - | GGATCTGTGGACTACAGCGA |
| 3122 | sgREV3L_2 | REV3L | chr6 | 111694329 | - | AGAATCGTCGCCACAACCAG |
| 3123 | sgREV3L_3 | REV3L | chr6 | 111804024 | + | CAGGTATCCAGCCCCTGCAG |
| 3124 | sgREV3L_4 | REV3L | chr6 | 111697830 | + | GGTAATCTTAGCAGAAGATG |
| 3125 | sgREV3L_5 | REV3L | chr6 | 111696163 | + | GTGGGAGACCAGCAGCGAGG |
| 3126 | sgREV3L_6 | REV3L | chr6 | 111695079 | - | AACCTGAAAGAGTAAAACCG |
| 3127 | sgREV3L_7 | REV3L | chr6 | 111685076 | - | CAGCATACAAAACTTACAGG |
| 3128 | sgREV3L_8 | REV3L | chr6 | 111672947 | - | GAGATTCAGATGCATTCCTG |
| 3129 | sgREV3L_9 | REV3L | chr6 | 111654420 | + | GAACAGAGTTGCTATAGAAG |
| 3130 | sgREV3L_10 | REV3L | chr6 | 111631190 | - | CCAGCTTGTAAGGCGCCCAG |
| 3131 | sgRFESD_1 | RFESD | chr5 | 94990024 | + | AATTCCTTTTCAGACTCAGG |
| 3132 | sgRFESD_2 | RFESD | chr5 | 94989886 | + | GTGGTCATTTTCTACCACAA |
| 3133 | sgRFESD_3 | RFESD | chr5 | 94991763 | + | GACCGTGTATAGTTTGCCCC |
| 3134 | sgRFESD_4 | RFESD | chr5 | 94991847 | + | ATCCATCAGCAAAACCCAAG |
| 3135 | sgRFESD_5 | RFESD | chr5 | 94988838 | - | CTAGACATGCCAACAGCTTG |
| 3136 | sgRFESD_6 | RFESD | chr5 | 94988826 | + | AATTCTCTTCCCCAAGCTGT |
| 3137 | sgRFESD_7 | RFESD | chr5 | 94988030 | - | TTCTATGGACTCACTTGGAG |
| 3138 | sgRFESD_8 | RFESD | chr5 | 94989782 | + | CTGCACAAGATCCTGAAAAG |
| 3139 | sgRFESD_9 | RFESD | chr5 | 94991858 | + | AAACCCAAGTGGTGCTCCAA |
| 3140 | sgRFESD_10 | RFESD | chr5 | 94989903 | + | CAAGGGAGAATATCATGCTA |
| 3141 | sgRORA_1 | RORA | chr15 | 60806848 | + | GTAATCGACAGTGTTGGCAG |
| 3142 | sgRORA_2 | RORA | chr15 | 60803576 | + | CAGGTAGAAGCTGCTGACGG |
| 3143 | sgRORA_3 | RORA | chr15 | 60797752 | - | AAGAGCTCCAGCAGATAACG |
| 3144 | sgRORA_4 | RORA | chr15 | 60806817 | - | GCCGTAGGGATGTCTCGAGA |
| 3145 | sgRORA_5 | RORA | chr15 | 60803417 | + | GCCATTACCTAATTCTGCCA |
| 3146 | sgRORA_6 | RORA | chr15 | 60795806 | - | AGAAGCTATACAGTATGTGG |
| 3147 | sgRORA_7 | RORA | chr15 | 60795784 | - | GAGTTTGCCAAACGCATTGA |
| 3148 | sgRORA_8 | RORA | chr15 | 60795013 | + | TGTTCTGAGAGTCAAAGGCA |
| 3149 | sgRORA_9 | RORA | chr15 | 60794963 | + | GGATTTGAAGACGTCGGGGC |
| 3150 | sgRORA_10 | RORA | chr15 | 60803617 | - | CATTGACGGGCACACCCCTG |
| 3151 | sgRORB_1 | RORB | chr9 | 77257342 | + | GGAGGATGTCCAAGAAGCAA |
| 3152 | sgRORB_2 | RORB | chr9 | 77249590 | - | ACAGTTTCTCTGCCTTGGGC |
| 3153 | sgRORB_3 | RORB | chr9 | 77249636 | - | GCAGTCGGCAGTGTTGGCAA |
| 3154 | sgRORB_4 | RORB | chr9 | 77257361 | + | AAGGGACAGCCTGTATGCTG |
| 3155 | sgRORB_5 | RORB | chr9 | 77257415 | + | GCGGCAGCAGCAGAGTGGGG |
| 3156 | sgRORB_6 | RORB | chr9 | 77275567 | + | GGAGACATGTCAATACACCA |
| 3157 | sgRORB_7 | RORB | chr9 | 77286796 | + | GGATGATGAGACCTTGGCAA |
| 3158 | sgRORB_8 | RORB | chr9 | 77257433 | + | GGAGGCAGAAGCCCTTGCCA |
| 3159 | sgRORB_9 | RORB | chr9 | 77257447 | - | GCTGCTGTACACCCTGGCAA |
| 3160 | sgRORB_10 | RORB | chr9 | 77257488 | + | AACCTGAACAACGAGACCAG |
| 3161 | sgRORC_1 | RORC | chr1 | 151787870 | - | GCCGCATGTCCAAGAAGCAG |
| 3162 | sgRORC_2 | RORC | chr1 | 151785490 | + | GGAGTGGGAGAAGTCAAAGA |
| 3163 | sgRORC_3 | RORC | chr1 | 151787803 | - | ACAGCAGCAACAGGAACCAG |
| 3164 | sgRORC_4 | RORC | chr1 | 151787782 | - | GGTCAAGACCCCTCCAGCAG |
| 3165 | sgRORC_5 | RORC | chr1 | 151787419 | - | CAGTTTCCGCAGCACACCGG |
| 3166 | sgRORC_6 | RORC | chr1 | 151786054 | - | GTGTGCCCACCACCTCACCG |
| 3167 | sgRORC_7 | RORC | chr1 | 151789718 | + | TGTCCCCACAGATTTTGCAA |
| 3168 | sgRORC_8 | RORC | chr1 | 151789158 | - | CCTGCAGAAATGCCTGGCGC |
| 3169 | sgRORC_9 | RORC | chr1 | 151787749 | - | AGATACCCTCACCTACACCT |
| 3170 | sgRORC_10 | RORC | chr1 | 151787701 | + | GCAGGTCAGGCGAGGAGCCC |

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|---|---|---|---|---|---|---|
| 3171 | sgRPE_1 | RPE | chr2 | 210880779 | + | CGAGGCTACTGAGAACCCAG |
| 3172 | sgRPE_2 | RPE | chr2 | 210882227 | + | TTGGATATAGAGGTCGATGG |
| 3173 | sgRPE_3 | RPE | chr2 | 210880689 | + | CTTTCTAGACATGCACATGA |
| 3174 | sgRPE_4 | RPE | chr2 | 210882262 | + | CACTGTCCATAAATGTGCAG |
| 3175 | sgRPE_5 | RPE | chr2 | 210880732 | + | GTAAAGCCAATGGCTGTAGC |
| 3176 | sgRPE_6 | RPE | chr2 | 210867457 | - | CCCCAGAGTCTAGCATCCGG |
| 3177 | sgRPE_7 | RPE | chr2 | 210874453 | - | ACACCCACTTACCAAAGAAA |
| 3178 | sgRPE_8 | RPE | chr2 | 210867493 | - | GTTACCCGTCCATTACGTCC |
| 3179 | sgRPE_9 | RPE | chr2 | 210867481 | + | TTATCTGCACCTGGACGTAA |
| 3180 | sgRPE_10 | RPE | chr2 | 210880960 | + | GCACAGTCAGGGCCCATTGC |
| 3181 | sgRPE65_1 | RPE65 | chr1 | 68910476 | + | GCAGGGATCTGGGAAAGCAC |
| 3182 | sgRPE65_2 | RPE65 | chr1 | 68914372 | - | AGGGTTGAGCATCCTGCTGG |
| 3183 | sgRPE65_3 | RPE65 | chr1 | 68912490 | + | AGAGTCCTGGCCCACATCGA |
| 3184 | sgRPE65_4 | RPE65 | chr1 | 68912442 | + | GGGCTTGCCCATCAAACAGG |
| 3185 | sgRPE65_5 | RPE65 | chr1 | 68906526 | + | GTAAACTCACCTGCTTGCAG |
| 3186 | sgRPE65_6 | RPE65 | chr1 | 68897203 | + | GTCACTGCACAGAATTGCAG |
| 3187 | sgRPE65_7 | RPE65 | chr1 | 68912511 | + | GGAGACTGCCGGTGAGCCAG |
| 3188 | sgRPE65_8 | RPE65 | chr1 | 68912395 | - | GACATGTCACATACCACAGA |
| 3189 | sgRPE65_9 | RPE65 | chr1 | 68905260 | + | GCTTGAATCGGTCACTGCAG |
| 3190 | sgRPE65_10 | RPE65 | chr1 | 68896750 | - | GATGCCTTGGAAGAAGATGA |
| 3191 | sgRRM2_1 | RRM2 | chr2 | 10263612 | + | GCAGATGTATAAGAAGGCAG |
| 3192 | sgRRM2_2 | RRM2 | chr2 | 10263571 | - | GGGAAGATGACAAAGCGGCG |
| 3193 | sgRRM2_3 | RRM2 | chr2 | 10263938 | + | GCTTTCTTTGCAGCAAGCGA |
| 3194 | sgRRM2_4 | RRM2 | chr2 | 10263138 | + | TGGCCAGCAAGACCGCGAGG |
| 3195 | sgRRM2_5 | RRM2 | chr2 | 10263889 | + | CTGGGAATCCCTGAAACCCG |
| 3196 | sgRRM2_6 | RRM2 | chr2 | 10263157 | + | GAGGATCTTCCAGGAGCCCA |
| 3197 | sgRRM2_7 | RRM2 | chr2 | 10263870 | + | TCTCCAAGGACATTCAGCAC |
| 3198 | sgRRM2_8 | RRM2 | chr2 | 10263633 | + | GGCTTCCTTTTGGACCGCCG |
| 3199 | sgRRM2_9 | RRM2 | chr2 | 10263650 | - | TCCTCCGATTACCTCCTCGG |
| 3200 | sgRRM2_10 | RRM2 | chr2 | 10267262 | - | GAATATCGACGCAAAAGAAC |
| 3201 | sgRRM2B_1 | RRM2B | chr8 | 103236302 | - | AAGCAGATTGGGCCTTGCGA |
| 3202 | sgRRM2B_2 | RRM2B | chr8 | 103251057 | - | GGCCGGGCTGGATCAGGATG |
| 3203 | sgRRM2B_3 | RRM2B | chr8 | 103226284 | - | TGATGCTGTCAAAATTGAGC |
| 3204 | sgRRM2B_4 | RRM2B | chr8 | 103237213 | - | TCAGGAGGTGCAGGTTCCAG |
| 3205 | sgRRM2B_5 | RRM2B | chr8 | 103231164 | - | TCTCCCAGGGGAAAGAGTGG |
| 3206 | sgRRM2B_6 | RRM2B | chr8 | 103251084 | - | GATGGGCGACCCGGAAAGGC |
| 3207 | sgRRM2B_7 | RRM2B | chr8 | 103237228 | - | GGTGGAGCGCTTTAGTCAGG |
| 3208 | sgRRM2B_8 | RRM2B | chr8 | 103251074 | - | CCGGAAAGGCCGGAAGCGGC |
| 3209 | sgRRM2B_9 | RRM2B | chr8 | 103237115 | - | ACATCAGAGATCCCAAGAAA |
| 3210 | sgRRM2B_10 | RRM2B | chr8 | 103238219 | + | GCTTTAAGCTTGTTCCAGTG |
| 3211 | sgRSAD1_1 | RSAD1 | chr17 | 48557049 | - | GCATGGCAGCCTCCTCCAGG |
| 3212 | sgRSAD1_2 | RSAD1 | chr17 | 48559643 | - | ACAGCTGGTAGAGGGAGAGG |
| 3213 | sgRSAD1_3 | RSAD1 | chr17 | 48559673 | + | GGGCACCGCACTCTTCGCCC |
| 3214 | sgRSAD1_4 | RSAD1 | chr17 | 48559769 | - | GGTGGAAGCCAGCCTCCCGA |
| 3215 | sgRSAD1_5 | RSAD1 | chr17 | 48560768 | + | GGAGCCTGACAACTGGATGA |
| 3216 | sgRSAD1_6 | RSAD1 | chr17 | 48560790 | + | GAGGTGATGCTGTTTGGCCA |
| 3217 | sgRSAD1_7 | RSAD1 | chr17 | 48557397 | + | GGCAGAGTTCGGGGCAGCAG |
| 3218 | sgRSAD1_8 | RSAD1 | chr17 | 48559475 | - | AGTGCGTCCGTCCCAACAGC |
| 3219 | sgRSAD1_9 | RSAD1 | chr17 | 48559572 | + | GGGCTGCCGGCACAGCAGGT |
| 3220 | sgRSAD1_10 | RSAD1 | chr17 | 48559631 | - | GGGAGAGGTGGTCATCACAG |
| 3221 | sgRSAD2_1 | RSAD2 | chr2 | 7018022 | - | GCCCTCAGCCAGCAGAACAG |
| 3222 | sgRSAD2_2 | RSAD2 | chr2 | 7018063 | + | CAAGAGGAGAAAGCAGCAGC |
| 3223 | sgRSAD2_3 | RSAD2 | chr2 | 7018096 | + | GCCAGATGAGACCAAAGAGG |
| 3224 | sgRSAD2_4 | RSAD2 | chr2 | 7018130 | - | GTTGGGGTGGTGGGCAGAGG |
| 3225 | sgRSAD2_5 | RSAD2 | chr2 | 7023628 | + | GAAGCCTGATCCGGGAGAGG |
| 3226 | sgRSAD2_6 | RSAD2 | chr2 | 7018143 | - | ATAGTTGACGCTGGTTGGGG |
| 3227 | sgRSAD2_7 | RSAD2 | chr2 | 7023507 | + | GAGAAGATCAACTTTTCAGG |
| 3228 | sgRSAD2_8 | RSAD2 | chr2 | 7027159 | + | TGGAAAACCTTCAAAAGCTG |
| 3229 | sgRSAD2_9 | RSAD2 | chr2 | 7023606 | + | AGCGTGAGCATCGTGAGCAA |
| 3230 | sgRSAD2_10 | RSAD2 | chr2 | 7027091 | + | CTCCTGTGACAGCTTTGACG |
| 3231 | sgRTEL1_1 | RTEL1 | chr20 | 62293929 | + | GCAGCTGTGCATCCATCCTG |

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|---|---|---|---|---|---|---|
| 3232 | sgRTEL1_2 | RTEL1 | chr20 | 62305370 | + | GGTGCTGGAGGAGCAGACCA |
| 3233 | sgRTEL1_3 | RTEL1 | chr20 | 62309659 | + | GAGCTGCCTGGAGACGACAG |
| 3234 | sgRTEL1_4 | RTEL1 | chr20 | 62309678 | + | GCGGTGTCACCAAGCCAGGG |
| 3235 | sgRTEL1_5 | RTEL1 | chr20 | 62317154 | + | ATCCTGATGCTGGTCACCGG |
| 3236 | sgRTEL1_6 | RTEL1 | chr20 | 62317204 | + | ACCACTGCAGCCAGAAAGCG |
| 3237 | sgRTEL1_7 | RTEL1 | chr20 | 62319028 | - | GGACCAGCTCGTGCATGCTG |
| 3238 | sgRTEL1_8 | RTEL1 | chr20 | 62319093 | - | CAGAGCAAAGGAGGACACCG |
| 3239 | sgRTEL1_9 | RTEL1 | chr20 | 62319667 | - | GGAGCCCATAGGGCACCACG |
| 3240 | sgRTEL1_10 | RTEL1 | chr20 | 62320893 | - | GGCCCGTGACAATCACACCA |
| 3241 | sgSC5D_1 | SC5D | chr11 | 121175095 | + | TTACTGTCCAGGCATTGCCA |
| 3242 | sgSC5D_2 | SC5D | chr11 | 121174130 | - | CATGTGGCTGGATACACGTA |
| 3243 | sgSC5D_3 | SC5D | chr11 | 121174142 | - | TCATCTTCTGGCCATGTGGC |
| 3244 | sgSC5D_4 | SC5D | chr11 | 121177148 | + | TTCATCTACTGGATTCACAG |
| 3245 | sgSC5D_5 | SC5D | chr11 | 121175139 | + | CTGTTCTTGCTGGAGATAAG |
| 3246 | sgSC5D_6 | SC5D | chr11 | 121177165 | + | CAGAGGCCTTCATCATAGAC |
| 3247 | sgSC5D_7 | SC5D | chr11 | 121177781 | - | GGAATCTTCCAAATATGGTG |
| 3248 | sgSC5D_8 | SC5D | chr11 | 121177802 | - | GCATGACTTGCAAATGGAGT |
| 3249 | sgSC5D_9 | SC5D | chr11 | 121178110 | + | GGGACCGCTCAGTTATGTGA |
| 3250 | sgSC5D_10 | SC5D | chr11 | 121178123 | + | TATGTGAAGGAGATGACAGA |
| 3251 | sgSCD5_1 | SCD5 | chr4 | 83601966 | + | GGGAGAAGAAGAAGCCCCGG |
| 3252 | sgSCD5_2 | SCD5 | chr4 | 83719605 | - | GGGCTCGAAAGCTCTGAGGG |
| 3253 | sgSCD5_3 | SCD5 | chr4 | 83626458 | + | ACAGCCAGAAATATCCTCAG |
| 3254 | sgSCD5_4 | SCD5 | chr4 | 83626498 | + | ACCTGTGGCTCCACAAGCGA |
| 3255 | sgSCD5_5 | SCD5 | chr4 | 83602017 | + | AGTACTTGTGGTGGGCTCGG |
| 3256 | sgSCD5_6 | SCD5 | chr4 | 83719652 | + | GAAAGGGATCTTCCCCGCGT |
| 3257 | sgSCD5_7 | SCD5 | chr4 | 83719626 | - | GCCAAGGAAGAAATCCGTGC |
| 3258 | sgSCD5_8 | SCD5 | chr4 | 83719481 | + | GGCTTTGGGGATGAGCACCA |
| 3259 | sgSCD5_9 | SCD5 | chr4 | 83626544 | + | GGCCAGGAGGAAGCAGAAGT |
| 3260 | sgSCD5_10 | SCD5 | chr4 | 83626527 | - | GCCGCTCTGGGTGTGACAGC |
| 3261 | sgSDHB_1 | SDHB | chr1 | 17380475 | + | GCAACCGGCGCCTCAAGGAG |
| 3262 | sgSDHB_2 | SDHB | chr1 | 17380508 | - | GTCAGGAGCCAAGATGGCGG |
| 3263 | sgSDHB_3 | SDHB | chr1 | 17354290 | - | AAGAAGGATGAATCTCAGGA |
| 3264 | sgSDHB_4 | SDHB | chr1 | 17350510 | - | CCAGCTGCCCCAGCTACTGG |
| 3265 | sgSDHB_5 | SDHB | chr1 | 17380442 | + | CCTGCAGGCAGGCTCCGCCA |
| 3266 | sgSDHB_6 | SDHB | chr1 | 17355198 | - | TGTGCAATGAACATCAATGG |
| 3267 | sgSDHB_7 | SDHB | chr1 | 17355173 | - | ACACTCTAGCTTGCACCCGA |
| 3268 | sgSDHB_8 | SDHB | chr1 | 17349186 | - | CTCCAGAGATGACTTCACAG |
| 3269 | sgSDHB_9 | SDHB | chr1 | 17349165 | - | GGAGCGCCTGGCCAAGCTGC |
| 3270 | sgSDHB_10 | SDHB | chr1 | 17380459 | - | TTGCCGGCCACAACCCTTGG |
| 3271 | sgSDHC_1 | SDHC | chr1 | 161284194 | + | AGATGGCTGCGCTGTTGCTG |
| 3272 | sgSDHC_2 | SDHC | chr1 | 161332116 | + | CAGATGTGGGACCTAGGAAA |
| 3273 | sgSDHC_3 | SDHC | chr1 | 161293444 | - | TACTTTCTGATACAGAGCTG |
| 3274 | sgSDHC_4 | SDHC | chr1 | 161298201 | + | AACCACGGCCAAAGAAGAGA |
| 3275 | sgSDHC_5 | SDHC | chr1 | 161298262 | - | ATAGTAATGTGGGGAGACAG |
| 3276 | sgSDHC_6 | SDHC | chr1 | 161310378 | + | TTACAGTTGGTCTCTTCCCA |
| 3277 | sgSDHC_7 | SDHC | chr1 | 161326567 | - | CAAGTGCAAACTTAGCTGTG |
| 3278 | sgSDHC_8 | SDHC | chr1 | 161326484 | + | ATGTCGGCCCTGTTACTCCC |
| 3279 | sgSDHC_9 | SDHC | chr1 | 161332190 | + | TGTGTTGTCCTCTATGGGGC |
| 3280 | sgSDHC_10 | SDHC | chr1 | 161332201 | - | CATGGCTGCCAGCCCCATAG |
| 3281 | sgSDHD_1 | SDHD | chr11 | 111957662 | + | TGCGGTGCCCTAGGAGGCCG |
| 3282 | sgSDHD_2 | SDHD | chr11 | 111958582 | + | TCTGTTGCTTCGAACTCCAG |
| 3283 | sgSDHD_3 | SDHD | chr11 | 111959718 | - | GCCAGTGACCATGAAGAGTG |
| 3284 | sgSDHD_4 | SDHD | chr11 | 111965573 | + | TGCAGAAAGCTGCCAAGGCA |
| 3285 | sgSDHD_5 | SDHD | chr11 | 111959683 | - | GAATAGTCCATCGCAGAGCA |
| 3286 | sgSDHD_6 | SDHD | chr11 | 111959705 | - | AAGAGTGAGGGCTGCAGCCA |
| 3287 | sgSDHD_7 | SDHD | chr11 | 111957627 | + | ACGAGATGGCGGTTCTCTGG |
| 3288 | sgSDHD_8 | SDHD | chr11 | 111958601 | - | ATATGAGCAGGTCTGACCAC |
| 3289 | sgSDHD_9 | SDHD | chr11 | 111965588 | - | AAGTGCCAAAAGCCCTGCCT |
| 3290 | sgSDHD_10 | SDHD | chr11 | 111958613 | - | AGAAATGCTGAGATATGAGC |
| 3291 | sgSLC11A1_1 | SLC11A1 | chr2 | 219249895 | - | GCAGAGCAAGCCCAACACGG |
| 3292 | sgSLC11A1_2 | SLC11A1 | chr2 | 219257774 | - | GAAGACAGCCACGAGCACGG |

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|---|---|---|---|---|---|---|
| 3293 | sgSLC11A1_3 | SLC11A1 | chr2 | 219248997 | - | GAGGAAGCCAGGCCCCGTGA |
| 3294 | sgSLC11A1_4 | SLC11A1 | chr2 | 219249944 | + | GACAGGCAAGGACTTGGGCG |
| 3295 | sgSLC11A1_5 | SLC11A1 | chr2 | 219254663 | - | GGAGACGGACAGGGCGATGG |
| 3296 | sgSLC11A1_6 | SLC11A1 | chr2 | 219255988 | + | TGGCCGTGGACATTTACCAG |
| 3297 | sgSLC11A1_7 | SLC11A1 | chr2 | 219257702 | + | AGGGCTTCCTGAGGCTGCGG |
| 3298 | sgSLC11A1_8 | SLC11A1 | chr2 | 219251437 | - | TGAGAGCAGATTGAATGCAA |
| 3299 | sgSLC11A1_9 | SLC11A1 | chr2 | 219251915 | - | GAAGAAGAAGGTGTCCACGA |
| 3300 | sgSLC11A1_10 | SLC11A1 | chr2 | 219252635 | - | GATGTTGTGGGGCATGATGA |
| 3301 | sgSLC11A2_1 | SLC11A2 | chr12 | 51398646 | + | GAGCAGCAGCCCCACAAGGG |
| 3302 | sgSLC11A2_2 | SLC11A2 | chr12 | 51402336 | + | GAGAGGGATTACTATAGGCA |
| 3303 | sgSLC11A2_3 | SLC11A2 | chr12 | 51402264 | - | GAAGATCTCCATTCCTGAGG |
| 3304 | sgSLC11A2_4 | SLC11A2 | chr12 | 51385429 | + | GAGGATGGGTATGAGAGCAA |
| 3305 | sgSLC11A2_5 | SLC11A2 | chr12 | 51384625 | - | GCATGTGGCATTATATGTGG |
| 3306 | sgSLC11A2_6 | SLC11A2 | chr12 | 51398624 | + | CCAGTCTAGCTGCAAGCCGC |
| 3307 | sgSLC11A2_7 | SLC11A2 | chr12 | 51390682 | + | GTGCGACAGCCTGAACAGGA |
| 3308 | sgSLC11A2_8 | SLC11A2 | chr12 | 51389417 | - | TTTTGGGAAAACCAACGAGC |
| 3309 | sgSLC11A2_9 | SLC11A2 | chr12 | 51386069 | + | AGAGCGAGTCAGAACCACTC |
| 3310 | sgSLC11A2_10 | SLC11A2 | chr12 | 51402320 | + | CCAGGGGACTGTGAAAGAGA |
| 3311 | sgSLC25A28_1 | SLC25A28 | chr10 | 101380078 | - | GGTGGATGGAGTTGGAGGGG |
| 3312 | sgSLC25A28_2 | SLC25A28 | chr10 | 101373600 | - | CTGGAGGATTATAAGAACGG |
| 3313 | sgSLC25A28_3 | SLC25A28 | chr10 | 101373520 | + | GCAGGCAAAATAAAGGGCGT |
| 3314 | sgSLC25A28_4 | SLC25A28 | chr10 | 101372302 | - | GCAGCCATGAACCCTGCGGA |
| 3315 | sgSLC25A28_5 | SLC25A28 | chr10 | 101379852 | - | GCACATGGTGGCAGGCGCCG |
| 3316 | sgSLC25A28_6 | SLC25A28 | chr10 | 101373551 | - | AACGTCACAGCAACAGGCGC |
| 3317 | sgSLC25A28_7 | SLC25A28 | chr10 | 101373477 | - | GAGTGATGTAATCCACCCTG |
| 3318 | sgSLC25A28_8 | SLC25A28 | chr10 | 101372288 | + | AGGAATCATTACCTTCCGCA |
| 3319 | sgSLC25A28_9 | SLC25A28 | chr10 | 101380067 | - | TTGGAGGGGCGGGGTGCTGG |
| 3320 | sgSLC25A28_10 | SLC25A28 | chr10 | 101373589 | - | TAAGAACGGAGGGCCTATGG |
| 3321 | sgSLC25A37_1 | SLC25A37 | chr8 | 23386570 | + | GGGGACAGCCGAGATGGCGG |
| 3322 | sgSLC25A37_2 | SLC25A37 | chr8 | 23386692 | + | GCACTCGGTCATGTACCCGG |
| 3323 | sgSLC25A37_3 | SLC25A37 | chr8 | 23386510 | + | TGGCGGATGGAGCTGCGCAG |
| 3324 | sgSLC25A37_4 | SLC25A37 | chr8 | 23423828 | + | GGAAACAGCCACCTAGCCAA |
| 3325 | sgSLC25A37_5 | SLC25A37 | chr8 | 23386551 | + | GGTGGCGCGGAGGATGGATG |
| 3326 | sgSLC25A37_6 | SLC25A37 | chr8 | 23386656 | + | CCACATGACAGCAGGAGCGA |
| 3327 | sgSLC25A37_7 | SLC25A37 | chr8 | 23423684 | + | AAGAAAATCATGCGGACCGA |
| 3328 | sgSLC25A37_8 | SLC25A37 | chr8 | 23423759 | - | GCAAAATACATGGCATGGGC |
| 3329 | sgSLC25A37_9 | SLC25A37 | chr8 | 23425870 | + | GCGGTAATGAATCCAGCAGA |
| 3330 | sgSLC25A37_10 | SLC25A37 | chr8 | 23386646 | - | TGTCATGTGGGTGGACACGG |
| 3331 | sgSLC40A1_1 | SLC40A1 | chr2 | 190445177 | - | GCCTAGTGTCATGACCAGGG |
| 3332 | sgSLC40A1_2 | SLC40A1 | chr2 | 190444563 | + | GTAGAGAAGGAATTTTGCAG |
| 3333 | sgSLC40A1_3 | SLC40A1 | chr2 | 190430210 | - | GCTGTGGCTTTATTTCGGGA |
| 3334 | sgSLC40A1_4 | SLC40A1 | chr2 | 190428501 | + | GGAGAAACGGACAAGTCCAG |
| 3335 | sgSLC40A1_5 | SLC40A1 | chr2 | 190445155 | - | GGAGATCACAACCGCCAGAG |
| 3336 | sgSLC40A1_6 | SLC40A1 | chr2 | 190444550 | + | GAGAATGACCAAGGTAGAGA |
| 3337 | sgSLC40A1_7 | SLC40A1 | chr2 | 190430116 | - | GAAAGCTGGTCTTAAAGAAG |
| 3338 | sgSLC40A1_8 | SLC40A1 | chr2 | 190428934 | - | AGATACTGAGCCAAAACCCC |
| 3339 | sgSLC40A1_9 | SLC40A1 | chr2 | 190428836 | + | GAAGGGCTCAGCCATCTGGG |
| 3340 | sgSLC40A1_10 | SLC40A1 | chr2 | 190428727 | + | TGGTGATGCAGTCAAAGCCC |
| 3341 | sgSLC48A1_1 | SLC48A1 | chr12 | 48172931 | - | GAAGGTGCAGAAGGCAGCGA |
| 3342 | sgSLC48A1_2 | SLC48A1 | chr12 | 48167176 | + | CGGTGGTCTACCGACAGCCG |
| 3343 | sgSLC48A1_3 | SLC48A1 | chr12 | 48172949 | - | GGTGATGGCCAGCACGAGGA |
| 3344 | sgSLC48A1_4 | SLC48A1 | chr12 | 48167095 | - | GCCGAGCTGCAGCCTGGACG |
| 3345 | sgSLC48A1_5 | SLC48A1 | chr12 | 48167125 | - | GGAGCTGATGCCGGAGTAGG |
| 3346 | sgSLC48A1_6 | SLC48A1 | chr12 | 48167203 | - | TGCGAGCCCTCCCATGGCCG |
| 3347 | sgSLC48A1_7 | SLC48A1 | chr12 | 48167159 | + | CATCTTCCTCGTCTGGACGG |
| 3348 | sgSLC48A1_8 | SLC48A1 | chr12 | 48172812 | + | GGTGCTGGCACTGTGGGTCC |
| 3349 | sgSLC48A1_9 | SLC48A1 | chr12 | 48172884 | + | GCTGCGCGGCTTCTTCTTCG |
| 3350 | sgSLC48A1_10 | SLC48A1 | chr12 | 48172914 | - | CGATGGAGACGGCCGAGAAG |
| 3351 | sgSRC_1 | SRC | chr20 | 36024627 | + | AAGATCCGCAAGCTGGACAG |
| 3352 | sgSRC_2 | SRC | chr20 | 36024680 | + | CAACAGCCTGCAGCAGCTGG |
| 3353 | sgSRC_3 | SRC | chr20 | 36028676 | + | GTCACGGAGTACATGAGCAA |

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|---|---|---|---|---|---|---|
| 3354 | sgSRC_4 | SRC | chr20 | 36030029 | + | GGGAGACAGGCAAGTACCTG |
| 3355 | sgSRC_5 | SRC | chr20 | 36030058 | - | GCAGCCATGTCCACCAGCTG |
| 3356 | sgSRC_6 | SRC | chr20 | 36030882 | - | TGGCTGCACGAAGGTCCCGG |
| 3357 | sgSRC_7 | SRC | chr20 | 36030918 | + | GAACCTGGTGTGCAAAGTGG |
| 3358 | sgSRC_8 | SRC | chr20 | 36031248 | + | CTGAGCTCACCACAAAGGGA |
| 3359 | sgSRC_9 | SRC | chr20 | 36012617 | + | GCCGAGAACGTGCACGGCGC |
| 3360 | sgSRC_10 | SRC | chr20 | 36012731 | + | GCCGAGCCCAAGCTGTTCGG |
| 3361 | sgSTC2_1 | STC2 | chr5 | 172755102 | - | GACGCCACCAACCCACCCGA |
| 3362 | sgSTC2_2 | STC2 | chr5 | 172755143 | + | GGTGGCCAACACCAAAGCCA |
| 3363 | sgSTC2_3 | STC2 | chr5 | 172750374 | + | GAACCTGTGCCGCAGAGCGT |
| 3364 | sgSTC2_4 | STC2 | chr5 | 172750320 | - | AAATGGTGTCCCAGTTGCAG |
| 3365 | sgSTC2_5 | STC2 | chr5 | 172752890 | - | ATGACTTTTCTGCACAACGC |
| 3366 | sgSTC2_6 | STC2 | chr5 | 172750268 | - | GGCTGCCCAGGAGAACACCC |
| 3367 | sgSTC2_7 | STC2 | chr5 | 172750226 | + | GCAGCAGCAAGTCCTTGAAA |
| 3368 | sgSTC2_8 | STC2 | chr5 | 172755130 | - | GGCCACCTTTGACCCGGCGC |
| 3369 | sgSTC2_9 | STC2 | chr5 | 172755087 | + | CTGTCTTGGGGACCCTCGGG |
| 3370 | sgSTC2_10 | STC2 | chr5 | 172750247 | + | GGATCATCTCCACTATCACC |
| 3371 | sgSTEAP1_1 | STEAP1 | chr7 | 89790567 | + | ATAGTCTGTCTTACCCAATG |
| 3372 | sgSTEAP1_2 | STEAP1 | chr7 | 89790109 | + | TCCTTTGTAGCATAAGGACA |
| 3373 | sgSTEAP1_3 | STEAP1 | chr7 | 89791290 | + | GTCTCTGGGAATTGTGGGAT |
| 3374 | sgSTEAP1_4 | STEAP1 | chr7 | 89793813 | - | GTGTATTGTGCCCAGTAGAA |
| 3375 | sgSTEAP1_5 | STEAP1 | chr7 | 89793962 | - | AGTATCTTCTTCCTCAAGCA |
| 3376 | sgSTEAP1_6 | STEAP1 | chr7 | 89790158 | - | TGGTGCAAATGCAAAAGCAC |
| 3377 | sgSTEAP1_7 | STEAP1 | chr7 | 89790208 | - | GTGTGTGCTGAAGTTCTGAA |
| 3378 | sgSTEAP1_8 | STEAP1 | chr7 | 89791308 | + | ATTGGCAATACTGGCTCTGT |
| 3379 | sgSTEAP1_9 | STEAP1 | chr7 | 89790186 | - | GCAGTCAAATTCATCAGCAT |
| 3380 | sgSTEAP1_10 | STEAP1 | chr7 | 89790373 | + | CATCAACAAAGTCTTGCCAA |
| 3381 | sgSTEAP2_1 | STEAP2 | chr7 | 89859269 | - | CCAGGAGGGAAAGTAAGCCA |
| 3382 | sgSTEAP2_2 | STEAP2 | chr7 | 89854680 | + | GAGAACATTATACCTCCCTG |
| 3383 | sgSTEAP2_3 | STEAP2 | chr7 | 89859284 | - | GGATAGAAGTGACTGCCAGG |
| 3384 | sgSTEAP2_4 | STEAP2 | chr7 | 89854695 | - | ATGTCTCAGGTCCCACAGGG |
| 3385 | sgSTEAP2_5 | STEAP2 | chr7 | 89856751 | + | GCCTCTGCTTACCGATGAGA |
| 3386 | sgSTEAP2_6 | STEAP2 | chr7 | 89854465 | + | TGGTATCAAAGATGCAAGGA |
| 3387 | sgSTEAP2_7 | STEAP2 | chr7 | 89856341 | - | TGGGAATGAAATTCAACTGG |
| 3388 | sgSTEAP2_8 | STEAP2 | chr7 | 89856669 | - | AACCAGGTTTCCAACCAAGG |
| 3389 | sgSTEAP2_9 | STEAP2 | chr7 | 89854490 | + | ACTGTAGGTGTGATTGGAAG |
| 3390 | sgSTEAP2_10 | STEAP2 | chr7 | 89854543 | + | TATTAGATGCGGCTATCATG |
| 3391 | sgSTEAP3_1 | STEAP3 | chr2 | 120003306 | + | GGAGGCAGTGAGCTCCCCGG |
| 3392 | sgSTEAP3_2 | STEAP3 | chr2 | 120003387 | + | GCTGGCGGGCAAGATCCTGG |
| 3393 | sgSTEAP3_3 | STEAP3 | chr2 | 120003532 | + | CTGCAGGCTGGCCCAAGGGA |
| 3394 | sgSTEAP3_4 | STEAP3 | chr2 | 120005421 | - | GAAGCAGACGAAGAGCCCCA |
| 3395 | sgSTEAP3_5 | STEAP3 | chr2 | 120005703 | - | GCTGTAGAGGGCGTGCAGGG |
| 3396 | sgSTEAP3_6 | STEAP3 | chr2 | 120005716 | - | GCGGCAAGCAGAAGCTGTAG |
| 3397 | sgSTEAP3_7 | STEAP3 | chr2 | 120005749 | - | GGTTGACCAGGTCGTAGCGG |
| 3398 | sgSTEAP3_8 | STEAP3 | chr2 | 120012342 | - | CAGCAGGGACAACGTGCCGA |
| 3399 | sgSTEAP3_9 | STEAP3 | chr2 | 120003096 | + | ACTGATCAGCCTCCACCTGG |
| 3400 | sgSTEAP3_10 | STEAP3 | chr2 | 120003108 | - | TATCGCTGTCCACCAGGTGG |
| 3401 | sgSTEAP4_1 | STEAP4 | chr7 | 87913406 | - | AAGACCACCCTACTGCCCAG |
| 3402 | sgSTEAP4_2 | STEAP4 | chr7 | 87913463 | - | GGATTGAAAATGCTCCAGTG |
| 3403 | sgSTEAP4_3 | STEAP4 | chr7 | 87910232 | - | GAGAGAGTTCCGATTTGTCC |
| 3404 | sgSTEAP4_4 | STEAP4 | chr7 | 87913167 | - | ATTTAACACCATCTCAGCCT |
| 3405 | sgSTEAP4_5 | STEAP4 | chr7 | 87910338 | + | TGAATCACTGAGCCAGGCTG |
| 3406 | sgSTEAP4_6 | STEAP4 | chr7 | 87913156 | + | CTGGAGAGCCCAGGCTGAGA |
| 3407 | sgSTEAP4_7 | STEAP4 | chr7 | 87913146 | - | GGCTCTCCAGTCAGGAGCAC |
| 3408 | sgSTEAP4_8 | STEAP4 | chr7 | 87910255 | + | TTGACTGCATTGCTAACAGA |
| 3409 | sgSTEAP4_9 | STEAP4 | chr7 | 87913135 | - | CAGGAGCACTGGATGCAAGT |
| 3410 | sgSTEAP4_10 | STEAP4 | chr7 | 87913387 | + | GCTCAAGACTTCTGCACCAC |
| 3411 | sgSUOX_1 | SUOX | chr12 | 56396410 | - | GCTGGAGTTATCACCAGAGA |
| 3412 | sgSUOX_2 | SUOX | chr12 | 56396008 | + | GCTGCTGCTGCACAGAGCTG |
| 3413 | sgSUOX_3 | SUOX | chr12 | 56396391 | - | AAGGTGAGGCTGGGGCGCTG |
| 3414 | sgSUOX_4 | SUOX | chr12 | 56396326 | + | GACTCAAGTCAATCCCCTCA |

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|---|---|---|---|---|---|---|
| 3415 | sgSUOX_5 | SUOX | chr12 | 56396344 | - | GGCCTGAATGCAGATCCTTG |
| 3416 | sgSUOX_6 | SUOX | chr12 | 56396371 | - | GGGCTGAAATGAATCATTTG |
| 3417 | sgSUOX_7 | SUOX | chr12 | 56396495 | - | CCCTACTTACCCTACACCGA |
| 3418 | sgSUOX_8 | SUOX | chr12 | 56396459 | + | ATTAGGTCTCGGTGCAGTGT |
| 3419 | sgSUOX_9 | SUOX | chr12 | 56396034 | + | TCAGGCTCCAACAGGCCTGC |
| 3420 | sgSUOX_10 | SUOX | chr12 | 56396448 | + | ATGGGGACCCTATTAGGTCT |
| 3421 | sgTBXAS1_1 | TBXAS1 | chr7 | 139655311 | - | GGCCTGCCAGGAGTCCACCG |
| 3422 | sgTBXAS1_2 | TBXAS1 | chr7 | 139706914 | - | GATAGGGCAGGCCTTCCTCG |
| 3423 | sgTBXAS1_3 | TBXAS1 | chr7 | 139636072 | - | AGGACTGAAAGCAGACATCA |
| 3424 | sgTBXAS1_4 | TBXAS1 | chr7 | 139653214 | + | AAAACGCTATGCGGAATCTG |
| 3425 | sgTBXAS1_5 | TBXAS1 | chr7 | 139653234 | + | GGGACGCATTTGACATCCAG |
| 3426 | sgTBXAS1_6 | TBXAS1 | chr7 | 139655293 | - | CGGGGTGCCAAAGGCGACGC |
| 3427 | sgTBXAS1_7 | TBXAS1 | chr7 | 139661815 | - | GTTCGGCTTGCACCCAGTAG |
| 3428 | sgTBXAS1_8 | TBXAS1 | chr7 | 139661941 | - | GGTGGCAAAAGAAAGTGTGT |
| 3429 | sgTBXAS1_9 | TBXAS1 | chr7 | 139706940 | + | TGGTGATTGCAGAGACGCTG |
| 3430 | sgTBXAS1_10 | TBXAS1 | chr7 | 139715581 | + | GCTGTGCTAGAGATGGCCGT |
| 3431 | sgTDO2_1 | TDO2 | chr4 | 156825225 | + | GGTGTGAATAGAGCCAGCAA |
| 3432 | sgTDO2_2 | TDO2 | chr4 | 156828902 | - | GAACAGAATCCAACTCCCAG |
| 3433 | sgTDO2_3 | TDO2 | chr4 | 156831342 | + | GACACTTCTGGAATTAGTGG |
| 3434 | sgTDO2_4 | TDO2 | chr4 | 156831315 | + | ACTGCTACTTAAATCTGAGC |
| 3435 | sgTDO2_5 | TDO2 | chr4 | 156832649 | + | GCATGGCTGGAAAGAACTCC |
| 3436 | sgTDO2_6 | TDO2 | chr4 | 156832717 | + | TATCACCAGAGGCCTGGAAG |
| 3437 | sgTDO2_7 | TDO2 | chr4 | 156839333 | + | GGCAGCAAAGCTGGCACCGG |
| 3438 | sgTDO2_8 | TDO2 | chr4 | 156839352 | - | GTGATAGCCTGAGGAACCAC |
| 3439 | sgTDO2_9 | TDO2 | chr4 | 156824897 | + | AGTGCCTTTTCACCATGAGT |
| 3440 | sgTDO2_10 | TDO2 | chr4 | 156831207 | - | ATAGTCGGAATTGCAAACTC |
| 3441 | sgTET1_1 | TET1 | chr10 | 70332786 | + | GAGACATTGAATGATACCAG |
| 3442 | sgTET1_2 | TET1 | chr10 | 70406221 | + | GAGATATCCTGAATCAGCAG |
| 3443 | sgTET1_3 | TET1 | chr10 | 70332213 | + | TCAGTCAAGACTTTAAGCCC |
| 3444 | sgTET1_4 | TET1 | chr10 | 70332747 | - | CCACAGCGTGTCCCTTCCAG |
| 3445 | sgTET1_5 | TET1 | chr10 | 70333180 | - | GGCCTGTCCTAGGAAAGAGG |
| 3446 | sgTET1_6 | TET1 | chr10 | 70333704 | + | GGTCCTAGCAAATCAGACAG |
| 3447 | sgTET1_7 | TET1 | chr10 | 70360745 | + | AGGAAAACAAGAGGCCCCAG |
| 3448 | sgTET1_8 | TET1 | chr10 | 70404586 | + | CAGCATGACAGGCATCGAGG |
| 3449 | sgTET1_9 | TET1 | chr10 | 70446142 | - | GAGGAATAACACCCAAAGAG |
| 3450 | sgTET1_10 | TET1 | chr10 | 70446261 | - | GCGGGGTGCCAGGACCTCGA |
| 3451 | sgTET2_1 | TET2 | chr4 | 106156327 | - | GGAACCTGTGGAAGAGGAGG |
| 3452 | sgTET2_2 | TET2 | chr4 | 106156339 | - | GAAGGAAGCTGAGGAACCTG |
| 3453 | sgTET2_3 | TET2 | chr4 | 106156897 | + | ATGACCTCCAAACAATACAC |
| 3454 | sgTET2_4 | TET2 | chr4 | 106157189 | - | CAAGTGCTGTTTCAACACTG |
| 3455 | sgTET2_5 | TET2 | chr4 | 106157296 | - | GGGAGATGTGAACTCTGGGA |
| 3456 | sgTET2_6 | TET2 | chr4 | 106155148 | - | GGAGGTGATGGTATCAGGAA |
| 3457 | sgTET2_7 | TET2 | chr4 | 106155166 | - | GGTTCTGTCTGGCAAATGGG |
| 3458 | sgTET2_8 | TET2 | chr4 | 106155217 | - | GGATGAGCTCTCTCAGGCAG |
| 3459 | sgTET2_9 | TET2 | chr4 | 106155403 | - | TGAAGGAGCCCAGAGAGAGA |
| 3460 | sgTET2_10 | TET2 | chr4 | 106155478 | + | GTAAGCCAAGAAAGAAATCC |
| 3461 | sgTET3_1 | TET3 | chr2 | 74273735 | + | GAGGCTGGGAACAACAGCAG |
| 3462 | sgTET3_2 | TET3 | chr2 | 74274247 | - | CAGGCCATGAGGGAGCCCGG |
| 3463 | sgTET3_3 | TET3 | chr2 | 74326516 | + | GGAGAACCAGAATGCAAAGG |
| 3464 | sgTET3_4 | TET3 | chr2 | 74274011 | - | GGCACCTCTGAGCTGAGGAG |
| 3465 | sgTET3_5 | TET3 | chr2 | 74274114 | - | GAGGGCCTCAATGGCAATGG |
| 3466 | sgTET3_6 | TET3 | chr2 | 74274153 | - | GGAATGAGAAGGCTGCGGGA |
| 3467 | sgTET3_7 | TET3 | chr2 | 74274196 | - | GAGGTGACAAGGCCTCAGGA |
| 3468 | sgTET3_8 | TET3 | chr2 | 74274215 | - | GGAGATCTGAAAGGGGCAGG |
| 3469 | sgTET3_9 | TET3 | chr2 | 74274257 | - | GGAGGAACCACAGGCCATGA |
| 3470 | sgTET3_10 | TET3 | chr2 | 74274371 | - | GAGCTCCGGGGCGTTGCTGG |
| 3471 | sgTF_1 | TF | chr3 | 133475832 | + | GGAGCTTCTCAACCAGGCCC |
| 3472 | sgTF_2 | TF | chr3 | 133465278 | + | CCGGAAGATGAGGCTCGCCG |
| 3473 | sgTF_3 | TF | chr3 | 133467363 | - | GCAACACTGGGACCATCGGA |
| 3474 | sgTF_4 | TF | chr3 | 133474287 | - | AGGGTGGAGCAGCCACACCC |
| 3475 | sgTF_5 | TF | chr3 | 133476763 | + | GCCATCCGGAATCTACGGGA |

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|---|---|---|---|---|---|---|
| 3476 | sgTF_6 | TF | chr3 | 133485120 | + | AGGGTATTTTGCTATAGCAG |
| 3477 | sgTF_7 | TF | chr3 | 133485202 | + | ACGGCAGTTGGCAGAACCGC |
| 3478 | sgTF_8 | TF | chr3 | 133486900 | - | GGAGTCTTTCTTAGACCCAG |
| 3479 | sgTF_9 | TF | chr3 | 133472501 | + | CAATAACCTGAAGCCTGTGG |
| 3480 | sgTF_10 | TF | chr3 | 133474266 | - | GGACACAGTTGACACAGCTG |
| 3481 | sgTH_1 | TH | chr11 | 2188175 | + | GAAGCGCTCCAGCAAAGCAA |
| 3482 | sgTH_2 | TH | chr11 | 2186978 | - | GCAGCTGTACTGGTTCACGG |
| 3483 | sgTH_3 | TH | chr11 | 2186948 | - | GCTGTGTAAGCAGAACGGGG |
| 3484 | sgTH_4 | TH | chr11 | 2192938 | - | GCTGGACGCCAAGCAGGCAG |
| 3485 | sgTH_5 | TH | chr11 | 2191078 | + | CCTGCGCCCAATGAACCGCG |
| 3486 | sgTH_6 | TH | chr11 | 2190893 | + | ACAGCTCGGGACAGCGCCGA |
| 3487 | sgTH_7 | TH | chr11 | 2189808 | + | GGCGCACGAAGTACTCCAGG |
| 3488 | sgTH_8 | TH | chr11 | 2189761 | + | GCGCACACCACTGAGCAGGG |
| 3489 | sgTH_9 | TH | chr11 | 2188240 | - | GGAGGTCTACACCACGCTGA |
| 3490 | sgTH_10 | TH | chr11 | 2187934 | + | GCTGGCCAGGAAGTCCCGGG |
| 3491 | sgTHAP4_1 | THAP4 | chr2 | 242545775 | - | GCAGCCCTTCCAGTACCTGG |
| 3492 | sgTHAP4_2 | THAP4 | chr2 | 242545837 | + | GTGCCCAGCATCCAGGACAG |
| 3493 | sgTHAP4_3 | THAP4 | chr2 | 242545785 | + | GAAGGGCTGCAGTGTGGGGT |
| 3494 | sgTHAP4_4 | THAP4 | chr2 | 242542412 | - | CAAGCCCGACACCAACAAGG |
| 3495 | sgTHAP4_5 | THAP4 | chr2 | 242541396 | - | GGCGTGGTGGAAGTGGAGGA |
| 3496 | sgTHAP4_6 | THAP4 | chr2 | 242541332 | + | GGCGAAGGAGATCCTGGCGA |
| 3497 | sgTHAP4_7 | THAP4 | chr2 | 242541317 | + | TACGTGGGGCTCCTTGGCGA |
| 3498 | sgTHAP4_8 | THAP4 | chr2 | 242545865 | - | CCCCAAGATGAACCCAGTGG |
| 3499 | sgTHAP4_9 | THAP4 | chr2 | 242545801 | + | GGGTAGGTCCCGGCTCCAGG |
| 3500 | sgTHAP4_10 | THAP4 | chr2 | 242545754 | - | GGAGGTTCACATCTCCCACG |
| 3501 | sgTMEM62_1 | TMEM62 | chr15 | 43441305 | + | GGGCACTTTGGAACTTGAGG |
| 3502 | sgTMEM62_2 | TMEM62 | chr15 | 43452955 | - | ACGGAGAATAAATGATGCCA |
| 3503 | sgTMEM62_3 | TMEM62 | chr15 | 43426047 | - | GAGCATGGCCACCAGCGCTG |
| 3504 | sgTMEM62_4 | TMEM62 | chr15 | 43438747 | - | GATGAACGAATAGTTGCCAA |
| 3505 | sgTMEM62_5 | TMEM62 | chr15 | 43438770 | + | GTAGATGCCACTGTAAATCC |
| 3506 | sgTMEM62_6 | TMEM62 | chr15 | 43440964 | + | GGAGCTCTTATTACTGGCCA |
| 3507 | sgTMEM62_7 | TMEM62 | chr15 | 43441052 | - | ATTGACCGGATTCCTGGTGA |
| 3508 | sgTMEM62_8 | TMEM62 | chr15 | 43441328 | + | GAGACTGGAAGGATAATAGG |
| 3509 | sgTMEM62_9 | TMEM62 | chr15 | 43444055 | - | GGATTGGTGATAAGAACCAC |
| 3510 | sgTMEM62_10 | TMEM62 | chr15 | 43446893 | - | AACTGTGACAGAAGTAATGG |
| 3511 | sgTMLHE_1 | TMLHE | chrX | 154743761 | - | AGCTTCTTAGAAACCAACGA |
| 3512 | sgTMLHE_2 | TMLHE | chrX | 154743776 | + | AAGCTCTGGCAATCTACCGA |
| 3513 | sgTMLHE_3 | TMLHE | chrX | 154754253 | + | GACGTAATCAAAGCGCATCA |
| 3514 | sgTMLHE_4 | TMLHE | chrX | 154741387 | + | GGTGTACGCAGTGTCACCTC |
| 3515 | sgTMLHE_5 | TMLHE | chrX | 154736695 | - | GGTACTTCAAAAGGCACCTG |
| 3516 | sgTMLHE_6 | TMLHE | chrX | 154774846 | + | AAGTTGGGCTGTGGAAGGGC |
| 3517 | sgTMLHE_7 | TMLHE | chrX | 154741438 | - | ACAGAGAAACCATTTATGGG |
| 3518 | sgTMLHE_8 | TMLHE | chrX | 154736757 | - | CTTAAACATGAAGGAACTGG |
| 3519 | sgTMLHE_9 | TMLHE | chrX | 154736659 | + | GCTTCAATGGCACTTTACTG |
| 3520 | sgTMLHE_10 | TMLHE | chrX | 154774907 | + | TGTGTAGGTGGGACAATCTG |
| 3521 | sgTMPPE_1 | TMPPE | chr3 | 33135180 | - | GCTCAGGCCTGCCCTGGCAG |
| 3522 | sgTMPPE_2 | TMPPE | chr3 | 33134904 | + | GAGGAGCGACAGCCGTCCGC |
| 3523 | sgTMPPE_3 | TMPPE | chr3 | 33134744 | - | GCCACACGGGCCCAACGTGG |
| 3524 | sgTMPPE_4 | TMPPE | chr3 | 33134691 | - | GGACTGGATCTGCTTGGCTG |
| 3525 | sgTMPPE_5 | TMPPE | chr3 | 33134622 | - | GGATCTTGACAAGGCCCTGG |
| 3526 | sgTMPPE_6 | TMPPE | chr3 | 33134338 | - | TCACAGAGCTCATCCTGCAG |
| 3527 | sgTMPPE_7 | TMPPE | chr3 | 33135170 | + | GTCACTCCCACTGCCAGGGC |
| 3528 | sgTMPPE_8 | TMPPE | chr3 | 33135022 | - | ACTTGGGCCCCACAGTGGGC |
| 3529 | sgTMPPE_9 | TMPPE | chr3 | 33134413 | + | GACATACACGAATGTAGCCT |
| 3530 | sgTMPPE_10 | TMPPE | chr3 | 33135108 | - | CCCGGCTGTGAAAACTGTGG |
| 3531 | sgTPH1_1 | TPH1 | chr11 | 18050858 | - | GAAGAGGAGATTAAGACCTG |
| 3532 | sgTPH1_2 | TPH1 | chr11 | 18050797 | + | GAGATACTCTCTGCAAGCAT |
| 3533 | sgTPH1_3 | TPH1 | chr11 | 18048135 | + | GTAACCAGCCACAGGACGGA |
| 3534 | sgTPH1_4 | TPH1 | chr11 | 18050892 | - | TAGTGGAGACCCCATTCCAA |
| 3535 | sgTPH1_5 | TPH1 | chr11 | 18047196 | + | AACTAGGTTCAGCCAAAAGC |
| 3536 | sgTPH1_6 | TPH1 | chr11 | 18047169 | - | ATTCTCCCAAGAAATTGGCT |

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|---|---|---|---|---|---|---|
| 3537 | sgTPH1_7 | TPH1 | chr11 | 18054905 | - | CAGGTATGGAAACTGTTCCT |
| 3538 | sgTPH1_8 | TPH1 | chr11 | 18048024 | + | TAGAAGTACTTACGGCTCTG |
| 3539 | sgTPH1_9 | TPH1 | chr11 | 18047145 | - | TTCTCTTGGCGCTTCAGAGG |
| 3540 | sgTPH1_10 | TPH1 | chr11 | 18044437 | + | GGGATCAAAGGGCTTTACTT |
| 3541 | sgTPH2_1 | TPH2 | chr12 | 72388324 | + | AGATGTTCAGAAACTAGCCA |
| 3542 | sgTPH2_2 | TPH2 | chr12 | 72332795 | + | GTAAATACTGGGCACGGAGA |
| 3543 | sgTPH2_3 | TPH2 | chr12 | 72338391 | - | CTAACTCAGAGATCTTCCGA |
| 3544 | sgTPH2_4 | TPH2 | chr12 | 72335388 | + | AATGACGACAAAGGCAACAA |
| 3545 | sgTPH2_5 | TPH2 | chr12 | 72338363 | + | CAGAGCTAGAGGATGTGCCC |
| 3546 | sgTPH2_6 | TPH2 | chr12 | 72366296 | + | TAGTGGTCAGCCCATTCCCA |
| 3547 | sgTPH2_7 | TPH2 | chr12 | 72366423 | - | CCACAGTATTTAGTCAGCAG |
| 3548 | sgTPH2_8 | TPH2 | chr12 | 72372732 | + | AAAGGTCTGGCTTCACGGTG |
| 3549 | sgTPH2_9 | TPH2 | chr12 | 72372779 | - | AGTCCTGCCAGAAAGTCTCG |
| 3550 | sgTPH2_10 | TPH2 | chr12 | 72416211 | + | CAAGCAAGAAGGGCAACTGC |
| 3551 | sgTPO_1 | TPO | chr2 | 1500530 | - | GAAAGGACTGACCTTTGCAG |
| 3552 | sgTPO_2 | TPO | chr2 | 1520672 | - | ATGGAGATCCAAGTCACCCG |
| 3553 | sgTPO_3 | TPO | chr2 | 1426851 | + | GGAGGAAAGCAAGCGCCTGG |
| 3554 | sgTPO_4 | TPO | chr2 | 1488456 | - | GGACACAGTGGGGTTGGCGG |
| 3555 | sgTPO_5 | TPO | chr2 | 1488468 | - | GGAGAACACGTTGGACACAG |
| 3556 | sgTPO_6 | TPO | chr2 | 1488495 | - | GGCATGGCCGAAGCGGAAGG |
| 3557 | sgTPO_7 | TPO | chr2 | 1488527 | - | GCGTCCAGCCTCCTCACCAG |
| 3558 | sgTPO_8 | TPO | chr2 | 1497568 | + | GTGCAGGTTACAATGAGTGG |
| 3559 | sgTPO_9 | TPO | chr2 | 1507765 | - | GGTGTTTCTGCACCTCGCAG |
| 3560 | sgTPO_10 | TPO | chr2 | 1507830 | + | GACGATGGGAGAACCTGCGT |
| 3561 | sgTYW5_1 | TYW5 | chr2 | 200820147 | + | CGAGAAACGCCCTCCAGCCG |
| 3562 | sgTYW5_2 | TYW5 | chr2 | 200813138 | - | ATGTACAAGCAAATGGACAG |
| 3563 | sgTYW5_3 | TYW5 | chr2 | 200813180 | - | ACAGAGAAAACCTCTTGTGT |
| 3564 | sgTYW5_4 | TYW5 | chr2 | 200801136 | + | TATAAATACTGGGCATCTCG |
| 3565 | sgTYW5_5 | TYW5 | chr2 | 200820118 | - | CATGCAGCACCTCTACCCAC |
| 3566 | sgTYW5_6 | TYW5 | chr2 | 200813167 | + | TCAATCCCTTCCAACACAAG |
| 3567 | sgTYW5_7 | TYW5 | chr2 | 200800717 | + | GTGGATATTTAGCCAAGTCT |
| 3568 | sgTYW5_8 | TYW5 | chr2 | 200813116 | - | GATTACCTAAGCCAAGTTGG |
| 3569 | sgTYW5_9 | TYW5 | chr2 | 200803671 | - | GTTCACCAGGATTACAACTA |
| 3570 | sgTYW5_10 | TYW5 | chr2 | 200820106 | + | AGGGCCTCACCTGTGGGTAG |
| 3571 | sgUQCRFS1_1 | UQCRFS1 | chr19 | 29704005 | + | GCGGGATGCTACCGACAACA |
| 3572 | sgUQCRFS1_2 | UQCRFS1 | chr19 | 29703807 | + | CTCACCATTGAGGCCCACGG |
| 3573 | sgUQCRFS1_3 | UQCRFS1 | chr19 | 29698958 | - | GTCTTCAAGAGAAAGCAGCG |
| 3574 | sgUQCRFS1_4 | UQCRFS1 | chr19 | 29699030 | - | TTATTCCCACACAGACATCA |
| 3575 | sgUQCRFS1_5 | UQCRFS1 | chr19 | 29698740 | + | GGTTCTATGACGCACAAACA |
| 3576 | sgUQCRFS1_6 | UQCRFS1 | chr19 | 29698495 | + | GTGGGGACTTCAAGGTTGAG |
| 3577 | sgUQCRFS1_7 | UQCRFS1 | chr19 | 29698724 | - | AACCCAGAAGGAAATTGAGC |
| 3578 | sgUQCRFS1_8 | UQCRFS1 | chr19 | 29698948 | - | GAAAGCAGCGAGGCTAGGAA |
| 3579 | sgUQCRFS1_9 | UQCRFS1 | chr19 | 29703897 | + | CAACACAGGCTGCTCCGGGG |
| 3580 | sgUQCRFS1_10 | UQCRFS1 | chr19 | 29703966 | + | GCGGGACGTGGCCGACAGGA |
| 3581 | sgUTY_1 | UTY | chrY | 15591475 | - | GAGGCAAAGAAAATGGCGGA |
| 3582 | sgUTY_2 | UTY | chrY | 15448132 | + | GTGATACTGGGCTGACCCAG |
| 3583 | sgUTY_3 | UTY | chrY | 15591516 | + | GGTAGTGAGCGACACTGCGC |
| 3584 | sgUTY_4 | UTY | chrY | 15591495 | + | ATCACCGAAGGCAACAGCGG |
| 3585 | sgUTY_5 | UTY | chrY | 15591416 | - | CCTGACAGTCGAGGAAAGGG |
| 3586 | sgUTY_6 | UTY | chrY | 15591175 | + | GCCTCACGAACCCGAAGAGA |
| 3587 | sgUTY_7 | UTY | chrY | 15526631 | + | AGTAGAAGTAGACCAAACCA |
| 3588 | sgUTY_8 | UTY | chrY | 15478229 | - | AGTAGGAGACAAAGCCACAA |
| 3589 | sgUTY_9 | UTY | chrY | 15469827 | - | GGTTCTGATAACTGGAATGG |
| 3590 | sgUTY_10 | UTY | chrY | 15467257 | - | GAGACACAAAGAAGTTGCTC |
| 3591 | sgXDH_1 | XDH | chr2 | 31624104 | - | GAATAGGAAGCACCAAGACG |
| 3592 | sgXDH_2 | XDH | chr2 | 31605869 | - | GAAGCAAGTCAAGTCTGTGG |
| 3593 | sgXDH_3 | XDH | chr2 | 31560649 | + | GAAGCAGCCAGGAAGAGGGG |
| 3594 | sgXDH_4 | XDH | chr2 | 31621546 | - | GAGAGAATTGCCAAAAGCCA |
| 3595 | sgXDH_5 | XDH | chr2 | 31620536 | - | GGGCTTCCGGACCTTTGCCA |
| 3596 | sgXDH_6 | XDH | chr2 | 31609382 | - | GAAGCAGCTGCGATTTGAAG |
| 3597 | sgXDH_7 | XDH | chr2 | 31605932 | - | GCTTCCTGCCCAAAAGACAG |

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|---|---|---|---|---|---|---|
| 3598 | sgXDH_8 | XDH | chr2 | 31604545 | + | GTTGAGGTCGGAGATGGGGC |
| 3599 | sgXDH_9 | XDH | chr2 | 31602783 | + | GCAGGGTCTTTCTGTAGCCA |
| 3600 | sgXDH_10 | XDH | chr2 | 31602735 | - | AGAGATCCCCTACAGCAGGG |
| 3601 | sgSLC46A1_1 | SLC46A1 | NA | NA | NA | GACTCCAAACTAATCGGCTA |
| 3602 | sgSLC46A1_2 | SLC46A1 | NA | NA | NA | GATGCTGGCAAGCCTCCTCG |
| 3603 | sgSLC46A1_3 | SLC46A1 | NA | NA | NA | GAAGGCCACCGAAGTCGCCG |
| 3604 | sgSLC46A1_4 | SLC46A1 | NA | NA | NA | GGCCACCGAAGTCGCCGAGG |
| 3605 | sgSLC46A1_5 | SLC46A1 | NA | NA | NA | GCCCTCCTCGGCGACTTCGG |
| 3606 | sgSLC46A1_6 | SLC46A1 | NA | NA | NA | GGAGCTTGGAGCGACAGTGT |
| 3607 | sgSLC46A1_7 | SLC46A1 | NA | NA | NA | GCCGCCCACGTTCATGTAGA |
| 3608 | sgSLC46A1_8 | SLC46A1 | NA | NA | NA | GGCGGGTGCCATTGTAGCCG |
| 3609 | sgSLC46A1_9 | SLC46A1 | NA | NA | NA | GGCACAGCACGGCAGCCGCA |
| 3610 | sgSLC46A1_10 | SLC46A1 | NA | NA | NA | GGGCGGGCGCGGGGCTTTTC |
| 3611 | sgIDO2_1 | IDO2 | NA | NA | NA | GGAGACTTCGACAAATGGAA |
| 3612 | sgIDO2_2 | IDO2 | NA | NA | NA | GGGCTGCAAGATAGCATTCG |
| 3613 | sgIDO2_3 | IDO2 | NA | NA | NA | ATCCAAGGCCTATAATGATC |
| 3614 | sgIDO2_4 | IDO2 | NA | NA | NA | TCAGGAACTGGCAGCTCAGC |
| 3615 | sgIDO2_5 | IDO2 | NA | NA | NA | CCAGTTCCTGAAGGGTCACC |
| 3616 | sgIDO2_6 | IDO2 | NA | NA | NA | CTGAGCTGCCAGTTCCTGAA |
| 3617 | sgIDO2_7 | IDO2 | NA | NA | NA | GCTGAGCTGCCAGTTCCTGA |
| 3618 | sgIDO2_8 | IDO2 | NA | NA | NA | TCACCAGCTTCAAGCTCATG |
| 3619 | sgIDO2_9 | IDO2 | NA | NA | NA | AATCAATTGAGGAAGTTTGT |
| 3620 | sgIDO2_10 | IDO2 | NA | NA | NA | TTGTTGGCAATTTCCATCCA |
| 3621 | sgCYP4F8_1 | CYP4F8 | NA | NA | NA | GCGGCGGCCGTTGTGATAGA |
| 3622 | sgCYP4F8_2 | CYP4F8 | NA | NA | NA | GCCTTTGGCTGCCGTACTAG |
| 3623 | sgCYP4F8_3 | CYP4F8 | NA | NA | NA | GCAGGCGTCACAAGCGACGG |
| 3624 | sgCYP4F8_4 | CYP4F8 | NA | NA | NA | GGTTATTCCGTTTCACTACA |
| 3625 | sgCYP4F8_5 | CYP4F8 | NA | NA | NA | GTGCAGCCGCGGGCGAATGT |
| 3626 | sgCYP4F8_6 | CYP4F8 | NA | NA | NA | GTTTTCTGGGTCGAAGCGGA |
| 3627 | sgCYP4F8_7 | CYP4F8 | NA | NA | NA | GGGCGTTTTCTGGGTCGAAG |
| 3628 | sgCYP4F8_8 | CYP4F8 | NA | NA | NA | GACCTCTTCTGGGCGTTTTC |
| 3629 | sgCYP4F8_9 | CYP4F8 | NA | NA | NA | ACCTATGCCTTCTATCACAA |
| 3630 | sgCYP4F8_10 | CYP4F8 | NA | NA | NA | TCCGGTGTTTCCCGCAGCCC |
| 3631 | sgABL1_1 | ABL1 | chr9 | 133738383 | + | GAAGAAATACAGCCTGACGG |
| 3632 | sgABL1_2 | ABL1 | chr9 | 133730343 | + | GCTGAGTATCTGCTGAGCAG |
| 3633 | sgABL1_3 | ABL1 | chr9 | 133738194 | + | GGTTCATCATCATTCAACGG |
| 3634 | sgABL1_4 | ABL1 | chr9 | 133747512 | + | GCAGGAGGACACCATGGAGG |
| 3635 | sgABL1_5 | ABL1 | chr9 | 133748298 | - | GTAGTCCAGGAGGTTCCCGT |
| 3636 | sgABL1_6 | ABL1 | chr9 | 133748320 | + | GAGGGAGTGCAACCGGCAGG |
| 3637 | sgABL1_7 | ABL1 | chr9 | 133753872 | + | GGTGTATGAGCTGCTAGAGA |
| 3638 | sgABL1_8 | ABL1 | chr9 | 133755950 | + | CAGAGCTGCCCACCAAGACG |
| 3639 | sgABL1_9 | ABL1 | chr9 | 133729489 | - | GCGGCTTCACTCAGACCCTG |
| 3640 | sgABL1_10 | ABL1 | chr9 | 133738163 | - | GGTGTTGAAGCGGCTCTCGG |
| 3641 | sgAPBA1_1 | APBA1 | chr9 | 72131727 | - | GGAGTACACGGAGCAGGCAG |
| 3642 | sgAPBA1_2 | APBA1 | chr9 | 72131580 | + | AGGGCTCGTCCTCACCGCGG |
| 3643 | sgAPBA1_3 | APBA1 | chr9 | 72132096 | - | GGAGGGGTCTGCGGAGGTGG |
| 3644 | sgAPBA1_4 | APBA1 | chr9 | 72132081 | - | GGTGGAGGTGACCGACGAGG |
| 3645 | sgAPBA1_5 | APBA1 | chr9 | 72131661 | + | CCAGCGAGTGGAAGTGCAGG |
| 3646 | sgAPBA1_6 | APBA1 | chr9 | 72131460 | - | CGAGCAGGAGCGCGACGAGG |
| 3647 | sgAPBA1_7 | APBA1 | chr9 | 72131325 | - | GGACAGCTACGAGCAGGAGG |
| 3648 | sgAPBA1_8 | APBA1 | chr9 | 72131064 | - | GGCCATCAAGGACATCAAGG |
| 3649 | sgAPBA1_9 | APBA1 | chr9 | 72130945 | + | CTGGTCGTCACAGTCCCTGG |
| 3650 | sgAPBA1_10 | APBA1 | chr9 | 72064617 | + | CATGTTGGCAATGATCACGG |
| 3651 | sgAPBB1_1 | APBB1 | chr11 | 6424582 | - | GGACTGAAGGAACCTGAGGA |
| 3652 | sgAPBB1_2 | APBB1 | chr11 | 6424416 | - | AGAGCCGTTGCCCCAAGAGG |
| 3653 | sgAPBB1_3 | APBB1 | chr11 | 6423916 | - | AGGCTGGGTAGAGATGACCG |
| 3654 | sgAPBB1_4 | APBB1 | chr11 | 6417339 | + | CAAGATGGTGAGGGTAGCAG |
| 3655 | sgAPBB1_5 | APBB1 | chr11 | 6417070 | + | GAACATGTGGCAGCAGAAGG |
| 3656 | sgAPBB1_6 | APBB1 | chr11 | 6425027 | + | GAAGGCGTTGGGGTTCCAGA |
| 3657 | sgAPBB1_7 | APBB1 | chr11 | 6423415 | - | GGATCTGCTACTGCAGCTGG |
| 3658 | sgAPBB1_8 | APBB1 | chr11 | 6422848 | + | GTGCCTCACAGCGAAACACG |

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|---|---|---|---|---|---|---|
| 3659 | sgAPBB1_9 | APBB1 | chr11 | 6422810 | + | GCAGATCTCATGCAGGCTGG |
| 3660 | sgAPBB1_10 | APBB1 | chr11 | 6422614 | + | AGAGTCCATTTACCAAGCAG |
| 3661 | sgAPBB2_1 | APBB2 | chr4 | 40823876 | + | GGGATAACTCACCATGCAGG |
| 3662 | sgAPBB2_2 | APBB2 | chr4 | 40829206 | - | ACGGAAGAATGCCAAAGCGC |
| 3663 | sgAPBB2_3 | APBB2 | chr4 | 40825696 | - | GCTGTCAGTGAACATGAACG |
| 3664 | sgAPBB2_4 | APBB2 | chr4 | 40823944 | + | AAACGTGGCACTCAAAGCGC |
| 3665 | sgAPBB2_5 | APBB2 | chr4 | 40825723 | - | TATGACCTCATCCAACAAGG |
| 3666 | sgAPBB2_6 | APBB2 | chr4 | 40824007 | - | GTCCTTCATGGGTGTTGGGA |
| 3667 | sgAPBB2_7 | APBB2 | chr4 | 40823929 | + | TAGGCTCGCACCAGAAAACG |
| 3668 | sgAPBB2_8 | APBB2 | chr4 | 40829156 | + | AGGGACATCGAGGTTCACAT |
| 3669 | sgAPBB2_9 | APBB2 | chr4 | 40829136 | + | GCCACTGACTTACCTTGCAA |
| 3670 | sgAPBB2_10 | APBB2 | chr4 | 40829146 | + | TACCTTGCAAAGGGACATCG |
| 3671 | sgAPBB3_1 | APBB3 | chr5 | 139943809 | - | GCTGGGCAAGGATTACATGC |
| 3672 | sgAPBB3_2 | APBB3 | chr5 | 139943468 | - | GGACCACAGTCTGGAGGTGG |
| 3673 | sgAPBB3_3 | APBB3 | chr5 | 139943353 | + | GCATCTCCTAGTTCCCAGGT |
| 3674 | sgAPBB3_4 | APBB3 | chr5 | 139943181 | - | TGGAGAGTTCACTGGACCGG |
| 3675 | sgAPBB3_5 | APBB3 | chr5 | 139941939 | + | TCACCCCAGGCACCATCTGG |
| 3676 | sgAPBB3_6 | APBB3 | chr5 | 139941016 | - | GATCTTGTCAGAGCGAGTAG |
| 3677 | sgAPBB3_7 | APBB3 | chr5 | 139940959 | + | GCAGGTCTTCAGGAGAGATG |
| 3678 | sgAPBB3_8 | APBB3 | chr5 | 139940606 | - | ACTGCCAGTCACCAAGGCCA |
| 3679 | sgAPBB3_9 | APBB3 | chr5 | 139940071 | - | GGCAGAGGCCAGTACAGAGG |
| 3680 | sgAPBB3_10 | APBB3 | chr5 | 139939933 | - | CTGGTGCCAGCCCCATGCAG |
| 3681 | sgAPLP1_1 | APLP1 | chr19 | 36365680 | + | GTGCGGAGCAGAAGGAACAG |
| 3682 | sgAPLP1_2 | APLP1 | chr19 | 36359558 | - | GCGACTTAGACCGCGAGCAG |
| 3683 | sgAPLP1_3 | APLP1 | chr19 | 36360640 | - | GCTGTGGGTCTGGTTCCCAG |
| 3684 | sgAPLP1_4 | APLP1 | chr19 | 36361847 | - | GCACCAGCGCTCCATGGGGA |
| 3685 | sgAPLP1_5 | APLP1 | chr19 | 36361902 | - | GGAAGGGCACAACCTGGTGG |
| 3686 | sgAPLP1_6 | APLP1 | chr19 | 36362211 | + | AATGTGAGAGTTCAACCCGG |
| 3687 | sgAPLP1_7 | APLP1 | chr19 | 36362230 | + | GAGGCATCAGGAGGCACAGG |
| 3688 | sgAPLP1_8 | APLP1 | chr19 | 36363438 | + | GGGGAAATCAGTGAGCACGA |
| 3689 | sgAPLP1_9 | APLP1 | chr19 | 36363467 | + | GAGGGCCAAGATGGACCTGG |
| 3690 | sgAPLP1_10 | APLP1 | chr19 | 36365482 | - | GATAAGGGCGATGACGCGGG |
| 3691 | sgAPP_1 | APP | chr21 | 27462247 | + | CGGCCGGCTCACCTAAGCAG |
| 3692 | sgAPP_2 | APP | chr21 | 27284055 | - | CCAGCCAACACAGAAAACGA |
| 3693 | sgAPP_3 | APP | chr21 | 27425603 | - | GCAAATTCTTACACCAGGAG |
| 3694 | sgAPP_4 | APP | chr21 | 27394333 | - | CAAAGTAGTAGAAGTAGCAG |
| 3695 | sgAPP_5 | APP | chr21 | 27347369 | + | GCAGCGAGACCTACCCGAGG |
| 3696 | sgAPP_6 | APP | chr21 | 27326970 | + | TGCGCTCATAAATCACACGG |
| 3697 | sgAPP_7 | APP | chr21 | 27326931 | - | GCTCTACAACGTGCCTGCAG |
| 3698 | sgAPP_8 | APP | chr21 | 27284152 | - | GACCGAAACGAAAACCACCG |
| 3699 | sgAPP_9 | APP | chr21 | 27284135 | + | CACGGGAAGGAGCTCCACGG |
| 3700 | sgAPP_10 | APP | chr21 | 27284082 | + | TCAGCCCCAAAAGAATGCCA |
| 3701 | sgASAH2_1 | ASAH2 | chr10 | 52008335 | + | GAATGTCTCCAAGTTAGAGA |
| 3702 | sgASAH2_2 | ASAH2 | chr10 | 52008246 | - | GGGACCATTGAAAACCACAA |
| 3703 | sgASAH2_3 | ASAH2 | chr10 | 52008284 | + | GCTGAGAAGGGCCACTGTGA |
| 3704 | sgASAH2_4 | ASAH2 | chr10 | 52005146 | + | GTTGGGCAGCTGTGGAGCCC |
| 3705 | sgASAH2_5 | ASAH2 | chr10 | 52005128 | + | GCTGGGTGGCTGTGGAGCGT |
| 3706 | sgASAH2_6 | ASAH2 | chr10 | 52005114 | + | GGTGGCTGTGGAATGCTGGG |
| 3707 | sgASAH2_7 | ASAH2 | chr10 | 52002988 | - | TGTCAGCATCGACATAGGCA |
| 3708 | sgASAH2_8 | ASAH2 | chr10 | 52008304 | + | TGGCACTCATCATTACAAGG |
| 3709 | sgASAH2_9 | ASAH2 | chr10 | 52005157 | + | GTGGAGCCCTGGGTGGCTGG |
| 3710 | sgASAH2_10 | ASAH2 | chr10 | 52005096 | + | AGTGGCTGTGGAGCTCTGGG |
| 3711 | sgATOX1_1 | ATOX1 | chr5 | 151131309 | - | TCTGTGGACATGACCTGTGG |
| 3712 | sgATOX1_2 | ATOX1 | chr5 | 151131325 | - | TCAGAAGCACGAGTTCTCTG |
| 3713 | sgATOX1_3 | ATOX1 | chr5 | 151131267 | - | CGGGTCCTCAATAAGCTTGG |
| 3714 | sgATOX1_4 | ATOX1 | chr5 | 151131287 | - | GCTGTGCTGAAGCTGTCTCT |
| 3715 | sgATOX1_5 | ATOX1 | chr5 | 151125879 | + | GCCCCTGCTACTCAAGGCCA |
| 3716 | sgATOX1_6 | ATOX1 | chr5 | 151125873 | + | GACCAGGCCCCTGCTACTCA |
| 3717 | sgATOX1_7 | ATOX1 | chr5 | 151125978 | - | CATTGACCTGCCCAACAAGA |
| 3718 | sgATOX1_8 | ATOX1 | chr5 | 151125951 | - | CATTGAATCTGAGCACAGCA |
| 3719 | sgATOX1_9 | ATOX1 | chr5 | 151125899 | - | GGAAAGACTGTTTCCTACCT |

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|---|---|---|---|---|---|---|
| 3720 | sgATOX1_10 | ATOX1 | chr5 | 151131293 | + | AGCTTCAGCACAGCCTCCAC |
| 3721 | sgATP6AP1_1 | ATP6AP1 | chrX | 153657474 | - | CCTGGGACCCAGCTCCAGGG |
| 3722 | sgATP6AP1_2 | ATP6AP1 | chrX | 153660185 | + | GAGGATTTCACAGCATATGG |
| 3723 | sgATP6AP1_3 | ATP6AP1 | chrX | 153660767 | - | GAATGAGCAGCAGAGCAGGG |
| 3724 | sgATP6AP1_4 | ATP6AP1 | chrX | 153662563 | + | GATGTAGCCGTGGTGGCCGG |
| 3725 | sgATP6AP1_5 | ATP6AP1 | chrX | 153662733 | - | GTTCCTGCACCCCAAAGGTG |
| 3726 | sgATP6AP1_6 | ATP6AP1 | chrX | 153663638 | - | GGGCAGACACTGGGTAGAGG |
| 3727 | sgATP6AP1_7 | ATP6AP1 | chrX | 153663706 | - | GGAAGCATTGAAGTAGGCGA |
| 3728 | sgATP6AP1_8 | ATP6AP1 | chrX | 153657038 | + | TATGATGGCGGCCATGGCGA |
| 3729 | sgATP6AP1_9 | ATP6AP1 | chrX | 153660632 | - | CAGGAAGCACCAGTGAGGAG |
| 3730 | sgATP6AP1_10 | ATP6AP1 | chrX | 153660655 | - | GCTGACTGCATACCAGTCGA |
| 3731 | sgATP6V0A2_1 | ATP6V0A2 | chr12 | 124220117 | + | GGAGCGGAGGGAGATCCAGG |
| 3732 | sgATP6V0A2_2 | ATP6V0A2 | chr12 | 124206938 | - | GGCTGGCCTCTCCTTCAGGA |
| 3733 | sgATP6V0A2_3 | ATP6V0A2 | chr12 | 124209200 | + | GGAGCAGTTGCAGAAGCTCG |
| 3734 | sgATP6V0A2_4 | ATP6V0A2 | chr12 | 124210811 | + | AGAGGCTGGGAGCAAAACTG |
| 3735 | sgATP6V0A2_5 | ATP6V0A2 | chr12 | 124212334 | + | GTGTCTGGCCTAATTAACCA |
| 3736 | sgATP6V0A2_6 | ATP6V0A2 | chr12 | 124220084 | - | GATAGGGGTACACGTGGCAG |
| 3737 | sgATP6V0A2_7 | ATP6V0A2 | chr12 | 124220104 | + | CAAACACAGCCGAGGAGCGG |
| 3738 | sgATP6V0A2_8 | ATP6V0A2 | chr12 | 124221602 | + | CCAGGTACTGCACAAAACCG |
| 3739 | sgATP6V0A2_9 | ATP6V0A2 | chr12 | 124221655 | - | ACGGCTGTAGACAGACTCGG |
| 3740 | sgATP6V0A2_10 | ATP6V0A2 | chr12 | 124221740 | + | CAACAAGTGCCTCATTGCTG |
| 3741 | sgATP6V0D1_1 | ATP6V0D1 | chr16 | 67487511 | - | GCTCAAGGAGAAGATGGTGG |
| 3742 | sgATP6V0D1_2 | ATP6V0D1 | chr16 | 67478528 | + | CTTGGGCACGAGCTCAGCGA |
| 3743 | sgATP6V0D1_3 | ATP6V0D1 | chr16 | 67473017 | + | TGGTGATGATGAAGGCGCGG |
| 3744 | sgATP6V0D1_4 | ATP6V0D1 | chr16 | 67478497 | - | AGGCAGCTTCGAGCAGATGG |
| 3745 | sgATP6V0D1_5 | ATP6V0D1 | chr16 | 67478446 | - | GCTCTACAATGCCATTCTGG |
| 3746 | sgATP6V0D1_6 | ATP6V0D1 | chr16 | 67473214 | - | AAGTTCTGCACCCTACTGGG |
| 3747 | sgATP6V0D1_7 | ATP6V0D1 | chr16 | 67472944 | + | GGGTAGAGCCGCCCACAGTG |
| 3748 | sgATP6V0D1_8 | ATP6V0D1 | chr16 | 67472754 | - | GAGTACAAGCTGCTCTTCGA |
| 3749 | sgATP6V0D1_9 | ATP6V0D1 | chr16 | 67514969 | + | AAGCTCCGGGAAGAACGACA |
| 3750 | sgATP6V0D1_10 | ATP6V0D1 | chr16 | 67514959 | - | CCCGGAGCTTTACTTTAACG |
| 3751 | sgATP6V1A_1 | ATP6V1A | chr3 | 113503085 | + | GGAGATCCTGTACTTCGCAC |
| 3752 | sgATP6V1A_2 | ATP6V1A | chr3 | 113503660 | - | GAGGTATCATAATTCCCAGG |
| 3753 | sgATP6V1A_3 | ATP6V1A | chr3 | 113507701 | + | AGTCCTCCGGGACTTCCCAG |
| 3754 | sgATP6V1A_4 | ATP6V1A | chr3 | 113503115 | - | GGACCAAGCTCTACAGAGAG |
| 3755 | sgATP6V1A_5 | ATP6V1A | chr3 | 113503543 | + | GTTGGTAGTCATATCACTGG |
| 3756 | sgATP6V1A_6 | ATP6V1A | chr3 | 113513976 | - | GCCTGCTCGTTCATAAAACG |
| 3757 | sgATP6V1A_7 | ATP6V1A | chr3 | 113499898 | + | GGTTACAGCCTGTGACATGG |
| 3758 | sgATP6V1A_8 | ATP6V1A | chr3 | 113503175 | - | TGACTGCTGATATCCGACAA |
| 3759 | sgATP6V1A_9 | ATP6V1A | chr3 | 113503199 | + | CAAAGCATCTACATCCCCAG |
| 3760 | sgATP6V1A_10 | ATP6V1A | chr3 | 113505128 | - | TACAGGCCATACTTGCACCA |
| 3761 | sgATP6V1G1_1 | ATP6V1G1 | chr9 | 117354823 | + | TGAAAACAGGAAAGAACCGG |
| 3762 | sgATP6V1G1_2 | ATP6V1G1 | chr9 | 117354851 | + | GCAGGCCAAAGAAGAAGCTC |
| 3763 | sgATP6V1G1_3 | ATP6V1G1 | chr9 | 117354896 | + | GCAGAGGGAGAAAGAATTCA |
| 3764 | sgATP6V1G1_4 | ATP6V1G1 | chr9 | 117350117 | + | CCATGGCTAGTCAGTCTCAG |
| 3765 | sgATP6V1G1_5 | ATP6V1G1 | chr9 | 117350160 | + | CGAGAAGCGGGCAGCCGAGA |
| 3766 | sgATP6V1G1_6 | ATP6V1G1 | chr9 | 117350189 | - | AAACTCACTTTTGCGGGCCT |
| 3767 | sgATP6V1G1_7 | ATP6V1G1 | chr9 | 117359918 | - | TCTGCCGGAAGTATGTCTGG |
| 3768 | sgATP6V1G1_8 | ATP6V1G1 | chr9 | 117359879 | + | TGAAGTGGAGAAGGAGACCC |
| 3769 | sgATP6V1G1_9 | ATP6V1G1 | chr9 | 117359844 | + | CTCCAGGCATTGGGATCCCG |
| 3770 | sgATP6V1G1_10 | ATP6V1G1 | chr9 | 117359864 | - | CTTCAGTGCTGCAACTGCCA |
| 3771 | sgBLVRB_1 | BLVRB | chr19 | 40971542 | + | GGTGAGCCCGGTCTGGCCAG |
| 3772 | sgBLVRB_2 | BLVRB | chr19 | 40964366 | + | GAACATCTCCCACTACCACG |
| 3773 | sgBLVRB_3 | BLVRB | chr19 | 40964335 | - | GATGTGGACAAGACCGTGGC |
| 3774 | sgBLVRB_4 | BLVRB | chr19 | 40964077 | - | TCATGGTGTGGACAAGGTCG |
| 3775 | sgBLVRB_5 | BLVRB | chr19 | 40971521 | + | TTGCACCGCCTGCGCCAGGG |
| 3776 | sgBLVRB_6 | BLVRB | chr19 | 40957319 | + | GCACCTTGTGCATCCGGATG |
| 3777 | sgBLVRB_7 | BLVRB | chr19 | 40964403 | - | CCTCCAGGCTGCCATCAGAG |
| 3778 | sgBLVRB_8 | BLVRB | chr19 | 40964101 | - | GAACATTGTGGCAGCCATGA |
| 3779 | sgBLVRB_9 | BLVRB | chr19 | 40957273 | - | GCTGTGATGCCGCCACACAT |
| 3780 | sgBLVRB_10 | BLVRB | chr19 | 40971569 | + | GAAGATCGCGATCTTCTTGA |

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|---|---|---|---|---|---|---|
| 3781 | sgBOLA2_1 | BOLA2 | chr16 | 29465727 | + | CAAGCAGCCGGGCTTTCCAG |
| 3782 | sgBOLA2_2 | BOLA2 | chr16 | 29465688 | - | GACGTACGCCTTAGTAAGGG |
| 3783 | sgBOLA2_3 | BOLA2 | chr16 | 29465532 | + | CCCGCTGCAGCTTCTCGCGG |
| 3784 | sgBOLA2_4 | BOLA2 | chr16 | 29465334 | + | TACCTGTGTCTCTGAAGCAG |
| 3785 | sgBOLA2_5 | BOLA2 | chr16 | 29465746 | - | GCGCGAAAAGCCTGGACCGC |
| 3786 | sgBOLA2_6 | BOLA2 | chr16 | 29465664 | - | AGTGAGTTTTCCAGCGGAAG |
| 3787 | sgBOLA2_7 | BOLA2 | chr16 | 29465604 | + | GCAGGGACACAACCCCAGCT |
| 3788 | sgBOLA2_8 | BOLA2 | chr16 | 29465637 | - | TGTAAGGCAGCAAGGTAGCG |
| 3789 | sgBOLA2_9 | BOLA2 | chr16 | 29465587 | + | GCTGGAACGGCAGCCCAGCA |
| 3790 | sgBOLA2_10 | BOLA2 | chr16 | 29465364 | - | GTGGTGTCGGCCAAGTTCGA |
| 3791 | sgBOLA2B_1 | BOLA2B | chr16 | 30205069 | + | CAAGCAGCCGGGCTTTCCAG |
| 3792 | sgBOLA2B_2 | BOLA2B | chr16 | 30205030 | - | GACGTACGCCTTAGTAAGGG |
| 3793 | sgBOLA2B_3 | BOLA2B | chr16 | 30204874 | + | CCCGCTGCAGCTTCTCGCGG |
| 3794 | sgBOLA2B_4 | BOLA2B | chr16 | 30204676 | + | TACCTGTGTCTCTGAAGCAG |
| 3795 | sgBOLA2B_5 | BOLA2B | chr16 | 30205088 | - | GCGCGAAAAGCCTGGACCGC |
| 3796 | sgBOLA2B_6 | BOLA2B | chr16 | 30205006 | - | AGTGAGTTTTCCAGCGGAAG |
| 3797 | sgBOLA2B_7 | BOLA2B | chr16 | 30204946 | + | GCAGGGACACAACCCCAGCT |
| 3798 | sgBOLA2B_8 | BOLA2B | chr16 | 30204979 | - | TGTAAGGCAGCAAGGTAGCG |
| 3799 | sgBOLA2B_9 | BOLA2B | chr16 | 30204929 | + | GCTGGAACGGCAGCCCAGCA |
| 3800 | sgBOLA2B_10 | BOLA2B | chr16 | 30204706 | - | GTGGTGTCGGCCAAGTTCGA |
| 3801 | sgCA6_1 | CA6 | chr1 | 9017282 | + | GGTGCGTCCTCGGAGATCAG |
| 3802 | sgCA6_2 | CA6 | chr1 | 9017299 | + | CAGCGGCTCTGAGCACACCG |
| 3803 | sgCA6_3 | CA6 | chr1 | 9019054 | - | GTTTCTGCTTACCTCAACGA |
| 3804 | sgCA6_4 | CA6 | chr1 | 9027794 | - | GAGGCGTGGTGAGTGAGCCA |
| 3805 | sgCA6_5 | CA6 | chr1 | 9027833 | - | AATCTGCCAGCACAAACCAG |
| 3806 | sgCA6_6 | CA6 | chr1 | 9030994 | + | CCAGCCCCTGAACCACAGAG |
| 3807 | sgCA6_7 | CA6 | chr1 | 9019007 | + | TGATATAGCCCAAGATGCGC |
| 3808 | sgCA6_8 | CA6 | chr1 | 9027743 | - | GCAGCATGTCCTGAACGTCA |
| 3809 | sgCA6_9 | CA6 | chr1 | 9027773 | - | GGTAGGTGTAGTAGTGCTGG |
| 3810 | sgCA6_10 | CA6 | chr1 | 9027813 | - | TGGACGTTCTCAGTGCAGGG |
| 3811 | sgCA9_1 | CA9 | chr9 | 35673981 | - | GGGATCAACAGAGGGAGCCA |
| 3812 | sgCA9_2 | CA9 | chr9 | 35674070 | + | GAGGTTGCCCCGGATGCAGG |
| 3813 | sgCA9_3 | CA9 | chr9 | 35674142 | + | GGAGGATCTGCCCAGTGAAG |
| 3814 | sgCA9_4 | CA9 | chr9 | 35674160 | + | AGAGGATTCACCCAGAGAGG |
| 3815 | sgCA9_5 | CA9 | chr9 | 35674178 | + | GGAGGATCCACCCGGAGAGG |
| 3816 | sgCA9_6 | CA9 | chr9 | 35676188 | - | TCACCTCGGCAGGGAAACGG |
| 3817 | sgCA9_7 | CA9 | chr9 | 35679230 | - | GAAGTAGCGGCTGAAGTCAG |
| 3818 | sgCA9_8 | CA9 | chr9 | 35679954 | - | GCTGTCCACTCCAGCAGGGA |
| 3819 | sgCA9_9 | CA9 | chr9 | 35679980 | - | GTACCTGGCTCAGCAGCCCG |
| 3820 | sgCA9_10 | CA9 | chr9 | 35674188 | - | GGTAGATCCTCCTCTCCGGG |
| 3821 | sgCCDC115_1 | CCDC115 | chr2 | 131099635 | - | GCAGCTGCTTGGGGACCTGG |
| 3822 | sgCCDC115_2 | CCDC115 | chr2 | 131099596 | - | AACGGTGTTGAACGCCCGGG |
| 3823 | sgCCDC115_3 | CCDC115 | chr2 | 131099291 | - | GGGACTCCAGAAGTTCAAGG |
| 3824 | sgCCDC115_4 | CCDC115 | chr2 | 131099614 | - | GGAGCTGGAGGGGAAACGAA |
| 3825 | sgCCDC115_5 | CCDC115 | chr2 | 131099499 | - | GGGCTGGCTCTCGCTCGCCA |
| 3826 | sgCCDC115_6 | CCDC115 | chr2 | 131099414 | + | CTGGCGTGGAGGCAGACCTG |
| 3827 | sgCCDC115_7 | CCDC115 | chr2 | 131098545 | + | GGGGTCCTGAGGGGCCTCAG |
| 3828 | sgCCDC115_8 | CCDC115 | chr2 | 131099678 | + | TCGCAGGTCAAGCGCCGCCA |
| 3829 | sgCCDC115_9 | CCDC115 | chr2 | 131099256 | - | TCCACGCCCCAGAGGAGGTG |
| 3830 | sgCCDC115_10 | CCDC115 | chr2 | 131098605 | - | TTCTTTCCTCAGGTCTGCGG |
| 3831 | sgCDO1_1 | CDO1 | chr5 | 115146966 | + | GTAGCATCTTCAGAAAGCAG |
| 3832 | sgCDO1_2 | CDO1 | chr5 | 115152041 | + | GATGCGGATCAGATCAGCCA |
| 3833 | sgCDO1_3 | CDO1 | chr5 | 115152001 | - | CGATGAGGTCAATGTAGAGG |
| 3834 | sgCDO1_4 | CDO1 | chr5 | 115151942 | + | GGCGTACATTGCCCACTCGG |
| 3835 | sgCDO1_5 | CDO1 | chr5 | 115142122 | + | GCATGGCATGTATCAAAAGG |
| 3836 | sgCDO1_6 | CDO1 | chr5 | 115152068 | - | AGACCGAAGTGCTGAAGCCA |
| 3837 | sgCDO1_7 | CDO1 | chr5 | 115142138 | + | AAGGTGGACTGTACAAGTGA |
| 3838 | sgCDO1_8 | CDO1 | chr5 | 115152025 | + | CAAAGAGCTGGTGCAGGATG |
| 3839 | sgCDO1_9 | CDO1 | chr5 | 115151957 | - | ACGAGAGCGACCCCACCGAG |
| 3840 | sgCDO1_10 | CDO1 | chr5 | 115148880 | - | GTTGGGGTGAAGGACATGGC |
| 3841 | sgCIAO1_1 | CIAO1 | chr2 | 96933092 | + | AAGGCCACCAGCGCACCGTG |

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|---|---|---|---|---|---|---|
| 3842 | sgCIAO1_2 | CIAO1 | chr2 | 96933132 | - | AGGCCAGGTAATTACCGCAG |
| 3843 | sgCIAO1_3 | CIAO1 | chr2 | 96933152 | - | GGTAGCATCAAAGCTGGCAG |
| 3844 | sgCIAO1_4 | CIAO1 | chr2 | 96934227 | + | GAAGCTGTACCGGGAGGAAG |
| 3845 | sgCIAO1_5 | CIAO1 | chr2 | 96934271 | - | GGATTCATGGCCCTCAAGGG |
| 3846 | sgCIAO1_6 | CIAO1 | chr2 | 96932173 | + | ACCCTGCTGGCCTCGTGCGG |
| 3847 | sgCIAO1_7 | CIAO1 | chr2 | 96932205 | + | AATCCGCATCTGGGGCACGG |
| 3848 | sgCIAO1_8 | CIAO1 | chr2 | 96933359 | + | ACAGTGTGTAACCACTCTCG |
| 3849 | sgCIAO1_9 | CIAO1 | chr2 | 96933641 | + | GGTTTGGCACCCAAGTCAGG |
| 3850 | sgCIAO1_10 | CIAO1 | chr2 | 96935015 | + | GCAGCGGCTCTGACCCCAGT |
| 3851 | sgCLSTN1_1 | CLSTN1 | chr1 | 9795026 | - | GAAGTGGAGCCTGAAGGGGA |
| 3852 | sgCLSTN1_2 | CLSTN1 | chr1 | 9811666 | - | GGAGAAGTCCTACAAAGCCA |
| 3853 | sgCLSTN1_3 | CLSTN1 | chr1 | 9804662 | - | GAGCTGCTGCCATCCCCGAG |
| 3854 | sgCLSTN1_4 | CLSTN1 | chr1 | 9801170 | - | GATAGAAACTCAGCTCGTGG |
| 3855 | sgCLSTN1_5 | CLSTN1 | chr1 | 9795114 | + | AAGCTGCTCGGGCAAAATGG |
| 3856 | sgCLSTN1_6 | CLSTN1 | chr1 | 9794141 | - | GGATACCTGTGAGGTCACGG |
| 3857 | sgCLSTN1_7 | CLSTN1 | chr1 | 9794114 | - | AGAGGAGCTGAACCACGAGC |
| 3858 | sgCLSTN1_8 | CLSTN1 | chr1 | 9794099 | - | CGAGCAGGAGAGCCTGGAGG |
| 3859 | sgCLSTN1_9 | CLSTN1 | chr1 | 9793578 | - | CACCATGGCCAGCTACGAGG |
| 3860 | sgCLSTN1_10 | CLSTN1 | chr1 | 9791852 | + | CTGACAGGTCAACAAAGGAG |
| 3861 | sgCLSTN2_1 | CLSTN2 | chr3 | 140167458 | - | GCAGCTCTGTGACGATCTGG |
| 3862 | sgCLSTN2_2 | CLSTN2 | chr3 | 140167476 | + | GCAGACTAATTACATTGGGA |
| 3863 | sgCLSTN2_3 | CLSTN2 | chr3 | 140178369 | - | GAGGTCAATGATGCCAGAGG |
| 3864 | sgCLSTN2_4 | CLSTN2 | chr3 | 140178473 | + | CAGGGTGCCAAAGTCCCCGA |
| 3865 | sgCLSTN2_5 | CLSTN2 | chr3 | 140185495 | - | TCCGCAAGAGAAAGACGAGG |
| 3866 | sgCLSTN2_6 | CLSTN2 | chr3 | 140277558 | - | GTGCCCCGGAGGGTGATCCG |
| 3867 | sgCLSTN2_7 | CLSTN2 | chr3 | 140277568 | - | GAAGTGGTCTGTGCCCCGGA |
| 3868 | sgCLSTN2_8 | CLSTN2 | chr3 | 140277584 | - | GGGCAGCAGGTCTCCAGAAG |
| 3869 | sgCLSTN2_9 | CLSTN2 | chr3 | 140282966 | + | TATCACAGTCAACCCCATGG |
| 3870 | sgCLSTN2_10 | CLSTN2 | chr3 | 139894790 | + | TAGTCAATAAGCACAAGCCA |
| 3871 | sgCLSTN3_1 | CLSTN3 | chr12 | 7288414 | + | ACAGAGAAGCTGCAGTACAG |
| 3872 | sgCLSTN3_2 | CLSTN3 | chr12 | 7289434 | - | CAACAGATCCACCTCCCCAG |
| 3873 | sgCLSTN3_3 | CLSTN3 | chr12 | 7289547 | + | GCTGTGCAGGTGCCCCTGGG |
| 3874 | sgCLSTN3_4 | CLSTN3 | chr12 | 7290585 | - | GGAAGGCAATCCTACAGCCG |
| 3875 | sgCLSTN3_5 | CLSTN3 | chr12 | 7290616 | - | GGGCGGGCACTCTCAAGCAG |
| 3876 | sgCLSTN3_6 | CLSTN3 | chr12 | 7293886 | + | ACAGTCACACTCTATACCGA |
| 3877 | sgCLSTN3_7 | CLSTN3 | chr12 | 7295484 | - | GGTAGCCATGGAAGTAGTGG |
| 3878 | sgCLSTN3_8 | CLSTN3 | chr12 | 7295776 | + | ACAGTCCCTGCTCACCCTGG |
| 3879 | sgCLSTN3_9 | CLSTN3 | chr12 | 7301597 | - | GTAGCCCTCCACTTCAGGGA |
| 3880 | sgCLSTN3_10 | CLSTN3 | chr12 | 7303612 | - | GTGTCCAGCCATCTCAGGCG |
| 3881 | sgCNNM2_1 | CNNM2 | chr10 | 104679554 | + | GGAGCTCCGCACCAAGACGG |
| 3882 | sgCNNM2_2 | CNNM2 | chr10 | 104678432 | + | GGTGGGCGAGAATGAGGAGA |
| 3883 | sgCNNM2_3 | CNNM2 | chr10 | 104678593 | + | CCTTCACCGAGCACGAGCGG |
| 3884 | sgCNNM2_4 | CNNM2 | chr10 | 104678679 | - | GTGCGGATGCCGCATCGCTG |
| 3885 | sgCNNM2_5 | CNNM2 | chr10 | 104679283 | - | GAAGATGACGATACCGATGG |
| 3886 | sgCNNM2_6 | CNNM2 | chr10 | 104679742 | - | ACAGTCATCGGGATCCACGA |
| 3887 | sgCNNM2_7 | CNNM2 | chr10 | 104678456 | + | GATCATCGGGCTGCGACTGG |
| 3888 | sgCNNM2_8 | CNNM2 | chr10 | 104678536 | - | GTACACCCGCAGCTTGACCC |
| 3889 | sgCNNM2_9 | CNNM2 | chr10 | 104678560 | + | AGAACATCAATAACGAGACG |
| 3890 | sgCNNM2_10 | CNNM2 | chr10 | 104678722 | - | GCGGCGGTTGAGAATGATGT |
| 3891 | sgCOQ6_1 | COQ6 | chr14 | 74420249 | - | GAGAAGCGTTGCAGAGCCAG |
| 3892 | sgCOQ6_2 | COQ6 | chr14 | 74424839 | + | GACCTCCCCAGACCGAGTGA |
| 3893 | sgCOQ6_3 | COQ6 | chr14 | 74424925 | - | GGTAATATGAACCCAAGGGC |
| 3894 | sgCOQ6_4 | COQ6 | chr14 | 74425905 | - | GAGCAGAGCAATAGGCCCAG |
| 3895 | sgCOQ6_5 | COQ6 | chr14 | 74426131 | - | GGACCAAACCAAGGAACTCA |
| 3896 | sgCOQ6_6 | COQ6 | chr14 | 74426171 | + | AGAGCTAGTTAGCATGGATG |
| 3897 | sgCOQ6_7 | COQ6 | chr14 | 74428026 | - | GCAGCATGTCCCAACCCAAG |
| 3898 | sgCOQ6_8 | COQ6 | chr14 | 74428046 | + | TGAGTACGTCAGGCCTCGGG |
| 3899 | sgCOQ6_9 | COQ6 | chr14 | 74428545 | - | CCTGAGCAACACAAGCGGGG |
| 3900 | sgCOQ6_10 | COQ6 | chr14 | 74420230 | + | AGGGTCAGCTCCATTTCCCC |
| 3901 | sgCOX10_1 | COX10 | chr17 | 13977715 | + | TCAGGAATGTCAATAAGCAG |
| 3902 | sgCOX10_2 | COX10 | chr17 | 13980281 | + | AGACAAAAGAGGAAAAGCGG |

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|---|---|---|---|---|---|---|
| 3903 | sgCOX10_3 | COX10 | chr17 | 13972930 | - | GGAGAGAGTGTGCGGAGATG |
| 3904 | sgCOX10_4 | COX10 | chr17 | 13972958 | - | CGGGTACAGTACCTGTCAGG |
| 3905 | sgCOX10_5 | COX10 | chr17 | 14063226 | + | TAGGACAAAGAACAGACCGC |
| 3906 | sgCOX10_6 | COX10 | chr17 | 14063245 | - | CTGATCTGTCCACGAACCAG |
| 3907 | sgCOX10_7 | COX10 | chr17 | 13980178 | - | GATAGGCTGGGCGGTGAGAG |
| 3908 | sgCOX10_8 | COX10 | chr17 | 13980270 | + | TGTAGGGAAAGAGACAAAAG |
| 3909 | sgCOX10_9 | COX10 | chr17 | 14005546 | - | ACTGACCTGATTGATGGAGT |
| 3910 | sgCOX10_10 | COX10 | chr17 | 13980190 | - | TTTCTGGACAAAGATAGGCT |
| 3911 | sgCP_1 | CP | chr3 | 148928055 | - | GAAGAACAAAGTCCTGGGGA |
| 3912 | sgCP_2 | CP | chr3 | 148904438 | - | GTGTGGTACTTATTCAGCGC |
| 3913 | sgCP_3 | CP | chr3 | 148895719 | - | ACAAGGCCTCACAATGCACG |
| 3914 | sgCP_4 | CP | chr3 | 148928109 | - | GCAGATGACAAAGTATATCC |
| 3915 | sgCP_5 | CP | chr3 | 148919990 | - | GAACAAGGTACCACAAGAAT |
| 3916 | sgCP_6 | CP | chr3 | 148903093 | - | ATACTATATCGCAGCAGTGG |
| 3917 | sgCP_7 | CP | chr3 | 148897430 | - | GTGAAACTCTCACTTACGTA |
| 3918 | sgCP_8 | CP | chr3 | 148939463 | - | GGGATTATGCCTCTGACCAT |
| 3919 | sgCP_9 | CP | chr3 | 148925138 | + | AAGATGTCCTACCTTTCAGA |
| 3920 | sgCP_10 | CP | chr3 | 148924043 | + | AGTGTCTAACATGCTTCCCA |
| 3921 | sgCYB5R1_1 | CYB5R1 | chr1 | 202935921 | + | GGAGAGTGACCTGAGGCCGG |
| 3922 | sgCYB5R1_2 | CYB5R1 | chr1 | 202935659 | + | CAGGCAGCCCCAGAGTGTGG |
| 3923 | sgCYB5R1_3 | CYB5R1 | chr1 | 202936002 | + | CCAGGGAGGCCAGCAGGACG |
| 3924 | sgCYB5R1_4 | CYB5R1 | chr1 | 202935081 | + | CAGGCTGCCATCAATTCGGG |
| 3925 | sgCYB5R1_5 | CYB5R1 | chr1 | 202934594 | - | GTGCACCCCAAATTTCCTGA |
| 3926 | sgCYB5R1_6 | CYB5R1 | chr1 | 202933748 | - | AAACTGGGAATGATTGCCGG |
| 3927 | sgCYB5R1_7 | CYB5R1 | chr1 | 202932251 | - | GGAGGACTTAGAGGAACTGC |
| 3928 | sgCYB5R1_8 | CYB5R1 | chr1 | 202935680 | + | GGGCGGTGGGCAGGGCAAAG |
| 3929 | sgCYB5R1_9 | CYB5R1 | chr1 | 202935669 | - | CCACCGCCCACCACACTCTG |
| 3930 | sgCYB5R1_10 | CYB5R1 | chr1 | 202932269 | - | AAAGGATATCATCTTGCGGG |
| 3931 | sgCYB5R2_1 | CYB5R2 | chr11 | 7693734 | - | AAATCAGCCACAACACCCGG |
| 3932 | sgCYB5R2_2 | CYB5R2 | chr11 | 7693682 | + | CTACAGGAAGCCCTAAGACA |
| 3933 | sgCYB5R2_3 | CYB5R2 | chr11 | 7687775 | - | GCTTCTTTTCTAGACAGAGG |
| 3934 | sgCYB5R2_4 | CYB5R2 | chr11 | 7693715 | + | GCAGTCCAAAGCGGAACCTC |
| 3935 | sgCYB5R2_5 | CYB5R2 | chr11 | 7689718 | - | TCACCTGGGAATGATTGCTG |
| 3936 | sgCYB5R2_6 | CYB5R2 | chr11 | 7687669 | + | ATGGATGTCGTACCAATGGG |
| 3937 | sgCYB5R2_7 | CYB5R2 | chr11 | 7690883 | + | GTCATCATCACTGGAGACAG |
| 3938 | sgCYB5R2_8 | CYB5R2 | chr11 | 7689013 | + | GTGGCGAATGAGCTGCAACA |
| 3939 | sgCYB5R2_9 | CYB5R2 | chr11 | 7689732 | - | AAAACACTGGCCGATCACCT |
| 3940 | sgCYB5R2_10 | CYB5R2 | chr11 | 7688979 | + | ACATCCTGGTCCTGTCACTG |
| 3941 | sgCYB5R3_1 | CYB5R3 | chr22 | 43032723 | - | GCTGCGGCTCATCGACCGGG |
| 3942 | sgCYB5R3_2 | CYB5R3 | chr22 | 43027372 | + | GGCGTGACTCACCGACAGGG |
| 3943 | sgCYB5R3_3 | CYB5R3 | chr22 | 43027417 | + | GCAGGGCAAAGCGGAAGCGC |
| 3944 | sgCYB5R3_4 | CYB5R3 | chr22 | 43027389 | + | GGGAGGCCCAGGATGTGCTG |
| 3945 | sgCYB5R3_5 | CYB5R3 | chr22 | 43024146 | + | GACCCGAATCACCTTTGCCC |
| 3946 | sgCYB5R3_6 | CYB5R3 | chr22 | 43027400 | + | GATGTGCTGGGGTGACGGCA |
| 3947 | sgCYB5R3_7 | CYB5R3 | chr22 | 43023365 | + | GCGCGGATCACCTGCAGCAT |
| 3948 | sgCYB5R3_8 | CYB5R3 | chr22 | 43032771 | + | TGATGGCTGGCGTGGAGCGC |
| 3949 | sgCYB5R3_9 | CYB5R3 | chr22 | 43032739 | - | CGGACATCAAGTACCCGCTG |
| 3950 | sgCYB5R3_10 | CYB5R3 | chr22 | 43024167 | + | GGTAGACCAGCAGCCCACTG |
| 3951 | sgCYB5RL_1 | CYB5RL | chr1 | 54656519 | + | AATGATGCAGAAGGCCACGA |
| 3952 | sgCYB5RL_2 | CYB5RL | chr1 | 54661271 | - | GATGATGGCTGAGAGGGAAG |
| 3953 | sgCYB5RL_3 | CYB5RL | chr1 | 54661256 | - | GGAAGAGGACGACGACACTG |
| 3954 | sgCYB5RL_4 | CYB5RL | chr1 | 54644866 | - | GAAAACCTTCCTCCAAGAGC |
| 3955 | sgCYB5RL_5 | CYB5RL | chr1 | 54644824 | + | GGCTGAGTACAAAGAAGGTA |
| 3956 | sgCYB5RL_6 | CYB5RL | chr1 | 54661200 | + | GCCGCAGCACTGGGAAGGCA |
| 3957 | sgCYB5RL_7 | CYB5RL | chr1 | 54661127 | - | GGAGGCAGCCCAAGCCAGCA |
| 3958 | sgCYB5RL_8 | CYB5RL | chr1 | 54656536 | - | GCTGAACCCAGAGACCTTCG |
| 3959 | sgCYB5RL_9 | CYB5RL | chr1 | 54656447 | - | GGAACAGCCAGCTTGGCCTG |
| 3960 | sgCYB5RL_10 | CYB5RL | chr1 | 54644960 | + | GCTCTGCAGGATAGGCACCA |
| 3961 | sgCYP1A2_1 | CYP1A2 | chr15 | 75042132 | - | TACCAGGCAGAAGATGGCAG |
| 3962 | sgCYP1A2_2 | CYP1A2 | chr15 | 75042289 | - | GCAGGACGTCCCCGTAGCGC |
| 3963 | sgCYP1A2_3 | CYP1A2 | chr15 | 75042525 | - | GGAAGCTGGGTCAGAGGCGA |

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|---|---|---|---|---|---|---|
| 3964 | sgCYP1A2_4 | CYP1A2 | chr15 | 75044130 | - | GTACATGAGGCTCCAGGAGA |
| 3965 | sgCYP1A2_5 | CYP1A2 | chr15 | 75044173 | + | GAGGAAGATCCAGAAGGAGC |
| 3966 | sgCYP1A2_6 | CYP1A2 | chr15 | 75045572 | + | GCTGTGTCTTCGTAAACCAG |
| 3967 | sgCYP1A2_7 | CYP1A2 | chr15 | 75042195 | + | TGAAAAGTCCACCAGAGCCA |
| 3968 | sgCYP1A2_8 | CYP1A2 | chr15 | 75042249 | - | CAGGTGCGGGTTCTTCCCCA |
| 3969 | sgCYP1A2_9 | CYP1A2 | chr15 | 75042299 | + | GACGTCCTGCAGATCCGCAT |
| 3970 | sgCYP1A2_10 | CYP1A2 | chr15 | 75042327 | - | GCTCAGCACCAGCACGGGCG |
| 3971 | sgDDX5_1 | DDX5 | chr17 | 62500927 | - | GATTTGGAGGAAGTAGGGCA |
| 3972 | sgDDX5_2 | DDX5 | chr17 | 62500893 | - | AAAGAAGTTTGGAAACCCTG |
| 3973 | sgDDX5_3 | DDX5 | chr17 | 62499589 | - | AAGTCTACTTGTATCTACGG |
| 3974 | sgDDX5_4 | DDX5 | chr17 | 62502209 | - | TATTCGAGTGACCGAGACCG |
| 3975 | sgDDX5_5 | DDX5 | chr17 | 62499944 | + | GGAATGGCTGATGATTGATG |
| 3976 | sgDDX5_6 | DDX5 | chr17 | 62498633 | - | GGAAGAGATCATGAGTGAGA |
| 3977 | sgDDX5_7 | DDX5 | chr17 | 62498120 | + | GTACTAACCTAGCCCTCTGG |
| 3978 | sgDDX5_8 | DDX5 | chr17 | 62500430 | - | ATTTGTTTTGCAGCAAGAGG |
| 3979 | sgDDX5_9 | DDX5 | chr17 | 62500117 | - | GGAGTGGCACAGACTGGATC |
| 3980 | sgDDX5_10 | DDX5 | chr17 | 62498311 | + | CTTGTCACCATGGATACCCA |
| 3981 | sgDEGS1_1 | DEGS1 | chr1 | 224377417 | - | AATGCAACTGCCAAACGCAT |
| 3982 | sgDEGS1_2 | DEGS1 | chr1 | 224377719 | - | GGTTTGGGGTTGATGAACAG |
| 3983 | sgDEGS1_3 | DEGS1 | chr1 | 224371053 | + | CTCGCGGGAAGACTTCGAGT |
| 3984 | sgDEGS1_4 | DEGS1 | chr1 | 224377748 | + | TCTGGAAGTTATCAATACCG |
| 3985 | sgDEGS1_5 | DEGS1 | chr1 | 224377768 | - | GTCAAAAGTGACCTGTGCCA |
| 3986 | sgDEGS1_6 | DEGS1 | chr1 | 224377442 | - | GAATAGCCAGAGTCATTGAG |
| 3987 | sgDEGS1_7 | DEGS1 | chr1 | 224377495 | + | GCAAAGCAATGTGGAATCGC |
| 3988 | sgDEGS1_8 | DEGS1 | chr1 | 224377632 | - | AACCAGCCCTCAAAATCGGT |
| 3989 | sgDEGS1_9 | DEGS1 | chr1 | 224377836 | + | GCAGCATCTTTACTTGGCCT |
| 3990 | sgDEGS1_10 | DEGS1 | chr1 | 224377856 | - | CAGAAATTGGGTGCAAACCC |
| 3991 | sgDEGS2_1 | DEGS2 | chr14 | 100625891 | - | GAGCCGCAGCGACTTCGAGT |
| 3992 | sgDEGS2_2 | DEGS2 | chr14 | 100625862 | - | CCGACCAGCCGCACACGCAG |
| 3993 | sgDEGS2_3 | DEGS2 | chr14 | 100615769 | + | CGTAGGGCACACCCACGGGC |
| 3994 | sgDEGS2_4 | DEGS2 | chr14 | 100615641 | + | CAGCCAGAGCAGCTTGCGGG |
| 3995 | sgDEGS2_5 | DEGS2 | chr14 | 100615988 | + | GCACCGCCCACTTGAGGCGC |
| 3996 | sgDEGS2_6 | DEGS2 | chr14 | 100615746 | + | GTGGTACTTCTTGAAGGAGG |
| 3997 | sgDEGS2_7 | DEGS2 | chr14 | 100615577 | + | TGCGGGTCACGGCCTTGGGG |
| 3998 | sgDEGS2_8 | DEGS2 | chr14 | 100615547 | - | CAACACGCTGGTGCAGCTGG |
| 3999 | sgDEGS2_9 | DEGS2 | chr14 | 100615461 | + | GTGCAGGCCCAGGCCCAGGA |
| 4000 | sgDEGS2_10 | DEGS2 | chr14 | 100615364 | - | CAACTGGATCACCTTCAATG |
| 4001 | sgDLG3_1 | DLG3 | chrX | 69711986 | + | ACAGCTGCCTGCCAAGCCAG |
| 4002 | sgDLG3_2 | DLG3 | chrX | 69712112 | + | GTGTGATCCCCAGTAAGAAG |
| 4003 | sgDLG3_3 | DLG3 | chrX | 69719815 | + | GGACAACAAGTTCATCGAGG |
| 4004 | sgDLG3_4 | DLG3 | chrX | 69719737 | + | GCCTCGACGTGATAATGAGG |
| 4005 | sgDLG3_5 | DLG3 | chrX | 69719863 | + | GACCAGCATCCAGTCAGTGC |
| 4006 | sgDLG3_6 | DLG3 | chrX | 69720391 | - | GGGCTTGATGAAAATGGCAA |
| 4007 | sgDLG3_7 | DLG3 | chrX | 69720741 | + | TTGGCAGGGAAATGAACCGA |
| 4008 | sgDLG3_8 | DLG3 | chrX | 69699047 | + | ATGAACAGCAGCATGAGCTC |
| 4009 | sgDLG3_9 | DLG3 | chrX | 69719776 | - | GTTCTCGGGACACCACAAAG |
| 4010 | sgDLG3_10 | DLG3 | chrX | 69719878 | + | AGTGCGGGCAGTTGCAGAGA |
| 4011 | sgDNAJC24_1 | DNAJC24 | chr11 | 31436470 | + | AAAGAGAGTATGACCTGCAG |
| 4012 | sgDNAJC24_2 | DNAJC24 | chr11 | 31436381 | + | AGATGTACCAGCAGGAACAG |
| 4013 | sgDNAJC24_3 | DNAJC24 | chr11 | 31436475 | + | GAGTATGACCTGCAGCGGTG |
| 4014 | sgDNAJC24_4 | DNAJC24 | chr11 | 31392283 | + | TCTGGTTCCATGGATGATGG |
| 4015 | sgDNAJC24_5 | DNAJC24 | chr11 | 31436373 | + | CAAAGTACAGATGTACCAGC |
| 4016 | sgDNAJC24_6 | DNAJC24 | chr11 | 31392322 | + | AAAGGATTGGTACAGCATCC |
| 4017 | sgDNAJC24_7 | DNAJC24 | chr11 | 31436391 | - | CATTCCTCCACTGTTCCTGC |
| 4018 | sgDNAJC24_8 | DNAJC24 | chr11 | 31436486 | - | AGCACCTACCACACCGCTGC |
| 4019 | sgDNAJC24_9 | DNAJC24 | chr11 | 31451832 | + | TATCTGAGTTGCAGATGTGG |
| 4020 | sgDNAJC24_10 | DNAJC24 | chr11 | 31451861 | + | CAGTGTTTCCAAGGATGAAG |
| 4021 | sgDPH3_1 | DPH3 | chr3 | 16306288 | + | GAAGTTATCTCCACATGGGC |
| 4022 | sgDPH3_2 | DPH3 | chr3 | 16306363 | + | CTCGTCATGAAACACTGCCA |
| 4023 | sgDPH3_3 | DPH3 | chr3 | 16306283 | + | ATGGAGAAGTTATCTCCACA |
| 4024 | sgDPH3_4 | DPH3 | chr3 | 16306264 | + | CCCTGAAGTTACCTTGGTGA |

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|---|---|---|---|---|---|---|
| 4025 | sgDPH3_5 | DPH3 | chr3 | 16302287 | + | TCTTTGTTGGCTGAAGGGGC |
| 4026 | sgDPH3_6 | DPH3 | chr3 | 16305712 | - | TTTGGAGAATGGGGAAGACG |
| 4027 | sgDPH3_7 | DPH3 | chr3 | 16305721 | - | GTAGGAAGATTTGGAGAATG |
| 4028 | sgDPH3_8 | DPH3 | chr3 | 16306335 | - | CGAGGACTTCCAATATGACG |
| 4029 | sgDPH3_9 | DPH3 | chr3 | 16306278 | - | AGATAACTTCTCCATCACCA |
| 4030 | sgDPH3_10 | DPH3 | chr3 | 16306353 | - | TCATGACGAGGTGGAAATCG |
| 4031 | sgENAH_1 | ENAH | chr1 | 225702536 | + | GAAGCCTGTGCAGGCCCTGG |
| 4032 | sgENAH_2 | ENAH | chr1 | 225702485 | + | GATGGGAGTGGAGGAGGTGG |
| 4033 | sgENAH_3 | ENAH | chr1 | 225742747 | + | GTACTTCAACCCTTTAGGAA |
| 4034 | sgENAH_4 | ENAH | chr1 | 225702434 | + | GGTACTTGATTAGGGAGAGG |
| 4035 | sgENAH_5 | ENAH | chr1 | 225700693 | - | GATACCTCTTTCCCAAGTGG |
| 4036 | sgENAH_6 | ENAH | chr1 | 225755042 | - | AAGAAGTGGGTGCCAGCTGG |
| 4037 | sgENAH_7 | ENAH | chr1 | 225707249 | - | GACAACTACAAGAACAGCAA |
| 4038 | sgENAH_8 | ENAH | chr1 | 225707180 | - | GAGAAAGGTTGGAGAGAGAG |
| 4039 | sgENAH_9 | ENAH | chr1 | 225707110 | - | GGAGAGAGAGAGACAAGAAC |
| 4040 | sgENAH_10 | ENAH | chr1 | 225706902 | - | GAGCGCAGAATATCAAGTGC |
| 4041 | sgEVL_1 | EVL | chr14 | 100551027 | + | ACAGAGTATCTGCCAAGCCC |
| 4042 | sgEVL_2 | EVL | chr14 | 100551047 | - | GTAGACCATCACGGAAGCCC |
| 4043 | sgEVL_3 | EVL | chr14 | 100594870 | - | GCAGATGAAGGATGTCCTGG |
| 4044 | sgEVL_4 | EVL | chr14 | 100594951 | - | GGGGTAGCCCCAGTGGGTGG |
| 4045 | sgEVL_5 | EVL | chr14 | 100595948 | + | GATGCCAACCGGGCAAGCAG |
| 4046 | sgEVL_6 | EVL | chr14 | 100595992 | + | GGAGGAAATGAACAAACTGC |
| 4047 | sgEVL_7 | EVL | chr14 | 100608093 | + | GAGAGAGCTCCACAAGGTGA |
| 4048 | sgEVL_8 | EVL | chr14 | 100608109 | + | GTGAAGGAGGAGATCATCGA |
| 4049 | sgEVL_9 | EVL | chr14 | 100594902 | - | GAGGCCCACTACATGAGACG |
| 4050 | sgEVL_10 | EVL | chr14 | 100604082 | - | GGGGCTCTTTGCCACAGACG |
| 4051 | sgEXO5_1 | EXO5 | chr1 | 40980495 | + | ACTGCAAACAGCATATGGGA |
| 4052 | sgEXO5_2 | EXO5 | chr1 | 40980920 | - | GTGGTGGATTAGGCTAGCAG |
| 4053 | sgEXO5_3 | EXO5 | chr1 | 40980368 | - | GGGTTTGTCATCCTTCCCAA |
| 4054 | sgEXO5_4 | EXO5 | chr1 | 40980762 | + | TGAGCTGCACTATACAGCCA |
| 4055 | sgEXO5_5 | EXO5 | chr1 | 40980797 | + | TGGCGGAACTCAAGACACGC |
| 4056 | sgEXO5_6 | EXO5 | chr1 | 40981118 | - | AATCTCAGTACCCAGCACAG |
| 4057 | sgEXO5_7 | EXO5 | chr1 | 40981149 | + | AGAGAAGGAGGTGAGAGCCA |
| 4058 | sgEXO5_8 | EXO5 | chr1 | 40981209 | + | GCCCCAGGGAGTTGACGTGG |
| 4059 | sgEXO5_9 | EXO5 | chr1 | 40980715 | + | CCAGTGTTTGGGGAAGGGGA |
| 4060 | sgEXO5_10 | EXO5 | chr1 | 40980947 | + | TGTGTCTAGAAAAGCCACTG |
| 4061 | sgFABP7_1 | FABP7 | chr6 | 123101461 | + | GGGAAATGTGACCAAACCAA |
| 4062 | sgFABP7_2 | FABP7 | chr6 | 123101586 | - | ACAGTTTCTATCATCTGCAG |
| 4063 | sgFABP7_3 | FABP7 | chr6 | 123100927 | + | GGAAAGGGCAAGGATGGTGG |
| 4064 | sgFABP7_4 | FABP7 | chr6 | 123102268 | + | GTTCACATACAGAAATGGGA |
| 4065 | sgFABP7_5 | FABP7 | chr6 | 123101437 | + | CGTGGGCTTTGCCACTAGGC |
| 4066 | sgFABP7_6 | FABP7 | chr6 | 123101542 | + | CACGGAGATTAGTTTCCAGC |
| 4067 | sgFABP7_7 | FABP7 | chr6 | 123101451 | - | CACATTTCCCACCTGCCTAG |
| 4068 | sgFABP7_8 | FABP7 | chr6 | 123101524 | + | TCTCAGCACATTCAAGAACA |
| 4069 | sgFABP7_9 | FABP7 | chr6 | 123101560 | - | CATCAAACTCTTCTCCCAGC |
| 4070 | sgFABP7_10 | FABP7 | chr6 | 123102252 | - | GAACAAGTTTGTCTCCATCC |
| 4071 | sgFDXR_1 | FDXR | chr17 | 72861843 | - | GACCCCACCTGAGCACCTGG |
| 4072 | sgFDXR_2 | FDXR | chr17 | 72862255 | - | CGGGCTTCCTGAGAACCAGG |
| 4073 | sgFDXR_3 | FDXR | chr17 | 72861038 | - | CCAGAGAACGGACATCACGA |
| 4074 | sgFDXR_4 | FDXR | chr17 | 72861008 | + | GACTCTGCCTCAGTACACCC |
| 4075 | sgFDXR_5 | FDXR | chr17 | 72860408 | - | GAACGGCCACAGAGAAGCCA |
| 4076 | sgFDXR_6 | FDXR | chr17 | 72860319 | + | GGTGAGGGCAGCACCTGCTG |
| 4077 | sgFDXR_7 | FDXR | chr17 | 72860120 | + | TGAGCACCAGCCCACAAGGG |
| 4078 | sgFDXR_8 | FDXR | chr17 | 72859229 | + | GTAGCCAGGCCTGGGGCCAG |
| 4079 | sgFDXR_9 | FDXR | chr17 | 72862914 | - | TGTGGCGCCTGATCACCCCG |
| 4080 | sgFDXR_10 | FDXR | chr17 | 72862277 | + | GTACCAGCCCACGAAGGCCC |
| 4081 | sgFOLH1_1 | FOLH1 | chr11 | 49168368 | + | CTGTCTCTTCACTTCTCCCC |
| 4082 | sgFOLH1_2 | FOLH1 | chr11 | 49214361 | + | GGAGAGAAAGCACTGAAAGG |
| 4083 | sgFOLH1_3 | FOLH1 | chr11 | 49204779 | - | TCAGAATATGCTTATAGGCG |
| 4084 | sgFOLH1_4 | FOLH1 | chr11 | 49221884 | + | GTGCTAGCTCAACAGAATCC |
| 4085 | sgFOLH1_5 | FOLH1 | chr11 | 49207339 | + | AGCAAAGTAGTCAGCAGGGT |

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|---|---|---|---|---|---|---|
| 4086 | sgFOLH1_6 | FOLH1 | chr11 | 49207303 | + | AAGATTCCAACCATCTGGAT |
| 4087 | sgFOLH1_7 | FOLH1 | chr11 | 49229838 | + | CCCTACCGAAGAGGAAGCCG |
| 4088 | sgFOLH1_8 | FOLH1 | chr11 | 49229928 | + | CAGCCGAGTCGGTTTCGTGA |
| 4089 | sgFOLH1_9 | FOLH1 | chr11 | 49229917 | + | CGCGGTGGCCACAGCCGAGT |
| 4090 | sgFOLH1_10 | FOLH1 | chr11 | 49229858 | - | GCGGGTGGCTTCTTTCTCCT |
| 4091 | sgHBA1_1 | HBA1 | chr16 | 226759 | - | GTGCGCGCCGACCTTACCCC |
| 4092 | sgHBA1_2 | HBA1 | chr16 | 226775 | + | GCACGCTGGCGAGTATGGTG |
| 4093 | sgHBA1_3 | HBA1 | chr16 | 226942 | - | GTAGGTCTTGGTGGTGGGGA |
| 4094 | sgHBA1_4 | HBA1 | chr16 | 227000 | + | TAAGGGCCACGGCAAGAAGG |
| 4095 | sgHBA1_5 | HBA1 | chr16 | 227024 | + | CGACGCGCTGACCAACGCCG |
| 4096 | sgHBA1_6 | HBA1 | chr16 | 227093 | + | GCACGCGCACAAGCTTCGGG |
| 4097 | sgHBA1_7 | HBA1 | chr16 | 226739 | + | GACCAACGTCAAGGCCGCCT |
| 4098 | sgHBA1_8 | HBA1 | chr16 | 226749 | + | AAGGCCGCCTGGGGTAAGGT |
| 4099 | sgHBA1_9 | HBA1 | chr16 | 227068 | - | GCTCAGGGCGGACAGCGCGT |
| 4100 | sgHBA1_10 | HBA1 | chr16 | 227080 | - | CGCGTGCAGGTCGCTCAGGG |
| 4101 | sgHBA2_1 | HBA2 | chr16 | 222955 | - | GTGCGCGCCGACCTTACCCC |
| 4102 | sgHBA2_2 | HBA2 | chr16 | 222971 | + | GCACGCTGGCGAGTATGGTG |
| 4103 | sgHBA2_3 | HBA2 | chr16 | 223138 | - | GTAGGTCTTGGTGGTGGGGA |
| 4104 | sgHBA2_4 | HBA2 | chr16 | 223196 | + | TAAGGGCCACGGCAAGAAGG |
| 4105 | sgHBA2_5 | HBA2 | chr16 | 223220 | + | CGACGCGCTGACCAACGCCG |
| 4106 | sgHBA2_6 | HBA2 | chr16 | 223289 | + | GCACGCGCACAAGCTTCGGG |
| 4107 | sgHBA2_7 | HBA2 | chr16 | 222935 | + | GACCAACGTCAAGGCCGCCT |
| 4108 | sgHBA2_8 | HBA2 | chr16 | 222945 | + | AAGGCCGCCTGGGGTAAGGT |
| 4109 | sgHBA2_9 | HBA2 | chr16 | 223264 | - | GCTCAGGGCGGACAGCGCGT |
| 4110 | sgHBA2_10 | HBA2 | chr16 | 223276 | - | CGCGTGCAGGTCGCTCAGGG |
| 4111 | sgHCCS_1 | HCCS | chrX | 11130243 | - | GCATCGGGCATCCTGAAGGT |
| 4112 | sgHCCS_2 | HCCS | chrX | 11130182 | - | AGCAGATGGAGACAAACCCA |
| 4113 | sgHCCS_3 | HCCS | chrX | 11135393 | - | GCTGGTGTTTGATTTGGTGG |
| 4114 | sgHCCS_4 | HCCS | chrX | 11136618 | + | TAGGTGGAAGTGGAAGGATG |
| 4115 | sgHCCS_5 | HCCS | chrX | 11130196 | - | ACTGCAACAGCAGGAGCAGA |
| 4116 | sgHCCS_6 | HCCS | chrX | 11133022 | - | ACTCATAGGCGCGTTCCTGG |
| 4117 | sgHCCS_7 | HCCS | chrX | 11133049 | + | GTGTCCCATTAGGGGCACTG |
| 4118 | sgHCCS_8 | HCCS | chrX | 11136678 | + | TCACAATCAGAATAACGAGC |
| 4119 | sgHCCS_9 | HCCS | chrX | 11136701 | + | CTTGGAAGGAGATTTTGAAG |
| 4120 | sgHCCS_10 | HCCS | chrX | 11135411 | - | GCAAATGGCTGATCTGGAGC |
| 4121 | sgHDAC1_1 | HDAC1 | chr1 | 32790091 | + | GAGGACTGTCCAGTATTCGA |
| 4122 | sgHDAC1_2 | HDAC1 | chr1 | 32792601 | + | GCACCATGCAAAGAAGTCCG |
| 4123 | sgHDAC1_3 | HDAC1 | chr1 | 32793127 | + | CTGATCCTAGGTATCACCAG |
| 4124 | sgHDAC1_4 | HDAC1 | chr1 | 32796199 | + | GATGTTCCAGCCTAGTGCGG |
| 4125 | sgHDAC1_5 | HDAC1 | chr1 | 32796413 | + | ATGCTGATGCTGGGAGGCGG |
| 4126 | sgHDAC1_6 | HDAC1 | chr1 | 32796444 | - | GCACCGGGCAACGTTACGAA |
| 4127 | sgHDAC1_7 | HDAC1 | chr1 | 32757764 | + | GAGCAAGATGGCGCAGACGC |
| 4128 | sgHDAC1_8 | HDAC1 | chr1 | 32768280 | - | GCAGCAAATTATGAGTCATG |
| 4129 | sgHDAC1_9 | HDAC1 | chr1 | 32792621 | - | GTAACAGAAGCCAGATGCCT |
| 4130 | sgHDAC1_10 | HDAC1 | chr1 | 32793170 | + | TATTCACCATGGTGACGGCG |
| 4131 | sgHDAC2_1 | HDAC2 | chr6 | 114265485 | - | GATGCTGTTCATGAAGACAG |
| 4132 | sgHDAC2_2 | HDAC2 | chr6 | 114262896 | - | GATAAATCCAAGGACAACAG |
| 4133 | sgHDAC2_3 | HDAC2 | chr6 | 114292052 | + | GCCTCCTTGACTGTACGCCA |
| 4134 | sgHDAC2_4 | HDAC2 | chr6 | 114264607 | - | GATTCTGAGGATGAAGGAGA |
| 4135 | sgHDAC2_5 | HDAC2 | chr6 | 114277264 | - | GATATGGCTGTTAATTGGGC |
| 4136 | sgHDAC2_6 | HDAC2 | chr6 | 114267252 | - | CCATTACTGATGCTTGGAGG |
| 4137 | sgHDAC2_7 | HDAC2 | chr6 | 114277815 | + | TCAAAGAGTCCATCAAACAC |
| 4138 | sgHDAC2_8 | HDAC2 | chr6 | 114274454 | - | GGGGAATACTTTCCTGGCAC |
| 4139 | sgHDAC2_9 | HDAC2 | chr6 | 114281105 | + | ACAGCAAGTTATGGGTCATG |
| 4140 | sgHDAC2_10 | HDAC2 | chr6 | 114277827 | - | GAAGATTGTCCAGTGTTTGA |
| 4141 | sgHEPH_1 | HEPH | chrX | 65417538 | - | AGGGCTTGGCAACCAAGCCA |
| 4142 | sgHEPH_2 | HEPH | chrX | 65409645 | + | GGACAGATGCTGACTACCCG |
| 4143 | sgHEPH_3 | HEPH | chrX | 65414959 | + | GGTGGGTGACACCATTCAGG |
| 4144 | sgHEPH_4 | HEPH | chrX | 65417606 | - | ACAAGCAGGATCCTGAGCAG |
| 4145 | sgHEPH_5 | HEPH | chrX | 65417692 | - | CCAGCCCTGCACACCAGCAG |
| 4146 | sgHEPH_6 | HEPH | chrX | 65418707 | + | ATTGGGCCTGCAGAAAGGGG |

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|---|---|---|---|---|---|---|
| 4147 | sgHEPH_7 | HEPH | chrX | 65420422 | + | CATGTGCAAGGGTGACACAG |
| 4148 | sgHEPH_8 | HEPH | chrX | 65427098 | + | GTATTCAGGGAATACACTGA |
| 4149 | sgHEPH_9 | HEPH | chrX | 65428021 | - | GAGCATGCACAGAGTAGGGG |
| 4150 | sgHEPH_10 | HEPH | chrX | 65479950 | + | GAACTACCGGGCAGATGTGG |
| 4151 | sgHEPHL1_1 | HEPHL1 | chr11 | 93778954 | - | GGGCCCAGGAATCCAAGCCA |
| 4152 | sgHEPHL1_2 | HEPHL1 | chr11 | 93800781 | + | GGTAACACCTTCATCAGCAG |
| 4153 | sgHEPHL1_3 | HEPHL1 | chr11 | 93803531 | + | GTTCTGCAGCTGGTATGCTG |
| 4154 | sgHEPHL1_4 | HEPHL1 | chr11 | 93822096 | + | GGAGTTCGAAAAGCAGCACG |
| 4155 | sgHEPHL1_5 | HEPHL1 | chr11 | 93796809 | - | GATGTGCGAATGGTACACCC |
| 4156 | sgHEPHL1_6 | HEPHL1 | chr11 | 93803702 | - | AAAGGGTGCTTACCTGCCAG |
| 4157 | sgHEPHL1_7 | HEPHL1 | chr11 | 93806213 | + | CAAGGGGACAACAGAATAGG |
| 4158 | sgHEPHL1_8 | HEPHL1 | chr11 | 93806472 | + | AGGCCCAGTCATCAAGGCAG |
| 4159 | sgHEPHL1_9 | HEPHL1 | chr11 | 93808373 | + | GTGAAACCTTCACATACAAG |
| 4160 | sgHEPHL1_10 | HEPHL1 | chr11 | 93819302 | - | CATGTGGGGAAACAGGGCCA |
| 4161 | sgHFE_1 | HFE | chr6 | 26093353 | - | GACTAGGGTGCCAGACGGTG |
| 4162 | sgHFE_2 | HFE | chr6 | 26087721 | - | CAAGCGCCCCTGCAGGACCG |
| 4163 | sgHFE_3 | HFE | chr6 | 26087690 | - | AGCATCAGGAGGAGAAGCGC |
| 4164 | sgHFE_4 | HFE | chr6 | 26087701 | + | CCTGATGCTTTTGCAGACCG |
| 4165 | sgHFE_5 | HFE | chr6 | 26093367 | + | CTAGTCATTGGAGTCATCAG |
| 4166 | sgHFE_6 | HFE | chr6 | 26087668 | + | AATGGGCCCGCGAGCCAGGC |
| 4167 | sgHFE_7 | HFE | chr6 | 26087678 | - | AGAAGCGCCGGCCTGGCTCG |
| 4168 | sgHFE_8 | HFE | chr6 | 26093340 | + | GTTTTAGAGCCCTCACCGTC |
| 4169 | sgHFE_9 | HFE | chr6 | 26094403 | + | TGTCTCCACAGGAGGAGCCA |
| 4170 | sgHFE_10 | HFE | chr6 | 26094423 | - | AGCTAAGACGTAGTGCCCCA |
| 4171 | sgHIF1A_1 | HIF1A | chr14 | 62200891 | + | AGGATGCTTGCCAAAAGAGG |
| 4172 | sgHIF1A_2 | HIF1A | chr14 | 62205044 | + | CAGACACCTAGTCCTTCCGA |
| 4173 | sgHIF1A_3 | HIF1A | chr14 | 62207543 | - | TAATGGTGACAACTGATCGA |
| 4174 | sgHIF1A_4 | HIF1A | chr14 | 62187200 | - | GAACTCACATTATGTGGAAG |
| 4175 | sgHIF1A_5 | HIF1A | chr14 | 62193480 | + | AAGTGTACCCTAACTAGCCG |
| 4176 | sgHIF1A_6 | HIF1A | chr14 | 62194225 | - | GGTTTCTTATACCCACACTG |
| 4177 | sgHIF1A_7 | HIF1A | chr14 | 62204919 | - | TGGCTTTGGCGTTTCAGCGG |
| 4178 | sgHIF1A_8 | HIF1A | chr14 | 62204939 | - | GGGTCAGCACTACTTCGAAG |
| 4179 | sgHIF1A_9 | HIF1A | chr14 | 62187237 | - | GATGGTAAGCCTCATCACAG |
| 4180 | sgHIF1A_10 | HIF1A | chr14 | 62194211 | + | ACAGTAACCAACCTCAGTGT |
| 4181 | sgHSCB_1 | HSCB | chr22 | 29138094 | + | GGAGAGCCGGGGCTTTGCTC |
| 4182 | sgHSCB_2 | HSCB | chr22 | 29138203 | - | GGCCGCCGCAGTTCCAACAG |
| 4183 | sgHSCB_3 | HSCB | chr22 | 29139906 | - | GCAGTTGCTGGTACCTGTGC |
| 4184 | sgHSCB_4 | HSCB | chr22 | 29138070 | + | AGGCCGCCGGCCAGATGTGG |
| 4185 | sgHSCB_5 | HSCB | chr22 | 29139939 | - | TCTGGCTGAAGAAATCTGGG |
| 4186 | sgHSCB_6 | HSCB | chr22 | 29138187 | + | GAAGCAATTATCCCCGCTGT |
| 4187 | sgHSCB_7 | HSCB | chr22 | 29139890 | + | ATACAGCGAAGCTCCAGCAC |
| 4188 | sgHSCB_8 | HSCB | chr22 | 29141883 | + | GGACAGATTATGAAATGGAC |
| 4189 | sgHSCB_9 | HSCB | chr22 | 29138291 | - | AGGCTGAAGTAGTCTCGAGT |
| 4190 | sgHSCB_10 | HSCB | chr22 | 29139876 | - | CTGTATCAACTCTGAAGGAA |
| 4191 | sgHSPA6_1 | HSPA6 | chr1 | 161494715 | + | GAAGCACTGGCCCTTCCGGG |
| 4192 | sgHSPA6_2 | HSPA6 | chr1 | 161496319 | + | GTGGCACTCAAGCCCGCCAG |
| 4193 | sgHSPA6_3 | HSPA6 | chr1 | 161494945 | - | CAACACGTTGAGCCCCGCGA |
| 4194 | sgHSPA6_4 | HSPA6 | chr1 | 161494964 | + | GCGGATCATCAATGAGCCCA |
| 4195 | sgHSPA6_5 | HSPA6 | chr1 | 161496023 | + | GCAGTACAAGGCTGAGGATG |
| 4196 | sgHSPA6_6 | HSPA6 | chr1 | 161494729 | - | GCCCTCGCTCACCACCCGGA |
| 4197 | sgHSPA6_7 | HSPA6 | chr1 | 161494983 | - | TAGGCGATGGCAGCTGCCGT |
| 4198 | sgHSPA6_8 | HSPA6 | chr1 | 161496157 | + | GCAAAATGCAAGACAAGTGT |
| 4199 | sgHSPA6_9 | HSPA6 | chr1 | 161494891 | - | GTCATTGAAATAGGCGGGCA |
| 4200 | sgHSPA6_10 | HSPA6 | chr1 | 161495841 | + | GGCATCCCTCCTGCCCCACG |
| 4201 | sgHTT_1 | HTT | chr4 | 3225755 | + | GGAGCAAGAGATTCAAGCAA |
| 4202 | sgHTT_2 | HTT | chr4 | 3237399 | - | CCAGCGATTCTGCATCCAGG |
| 4203 | sgHTT_3 | HTT | chr4 | 3076691 | - | TGAGGAAGCTGAGGAGGCGG |
| 4204 | sgHTT_4 | HTT | chr4 | 3107095 | - | GGGCAGCACGCAAACTCCGA |
| 4205 | sgHTT_5 | HTT | chr4 | 3129066 | + | ACATCATCACAGAACAGCCA |
| 4206 | sgHTT_6 | HTT | chr4 | 3131731 | + | TCTTCCTGATGAAGCCTCGG |
| 4207 | sgHTT_7 | HTT | chr4 | 3133414 | - | CAGCTGCTCCCACACAGCTG |

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|---|---|---|---|---|---|---|
| 4208 | sgHTT_8 | HTT | chr4 | 3134339 | - | GCAGTGGCTCCTCGAACCTG |
| 4209 | sgHTT_9 | HTT | chr4 | 3134355 | - | GGTCCCACAGAGAATGGCAG |
| 4210 | sgHTT_10 | HTT | chr4 | 3134392 | + | CAGCAGGTCCCGCTTCCACG |
| 4211 | sgIBA57_1 | IBA57 | chr1 | 228362483 | + | GATCCGGCGGAAGGTCACGG |
| 4212 | sgIBA57_2 | IBA57 | chr1 | 228362390 | + | CAGGCTCCAGGAACACTCGG |
| 4213 | sgIBA57_3 | IBA57 | chr1 | 228362563 | + | GGGCTGCATCGCTGCAGGAG |
| 4214 | sgIBA57_4 | IBA57 | chr1 | 228362613 | + | GACCCGCGAACAGCACGCAT |
| 4215 | sgIBA57_5 | IBA57 | chr1 | 228353723 | - | GGTCAGCAGCCCTAGCAGGA |
| 4216 | sgIBA57_6 | IBA57 | chr1 | 228353748 | + | ACTGCCGCTTCCGAGTCCTG |
| 4217 | sgIBA57_7 | IBA57 | chr1 | 228362429 | + | GGAGTGTGACAGCTCGGTGC |
| 4218 | sgIBA57_8 | IBA57 | chr1 | 228362599 | - | CGGGTCGCGGATGAGGATGG |
| 4219 | sgIBA57_9 | IBA57 | chr1 | 228353660 | - | GTCCAGCCGGAAGCAGGCCC |
| 4220 | sgIBA57_10 | IBA57 | chr1 | 228353711 | - | TAGCAGGAAGGGCGCCGCGT |
| 4221 | sgKAT2B_1 | KAT2B | chr3 | 20161104 | - | GAAATTGTCCCAGCCACAGG |
| 4222 | sgKAT2B_2 | KAT2B | chr3 | 20167436 | + | GCAAGGTTGGAAGAGCGCAG |
| 4223 | sgKAT2B_3 | KAT2B | chr3 | 20189777 | + | GAGCATCCTCCAGCAGGTGA |
| 4224 | sgKAT2B_4 | KAT2B | chr3 | 20082131 | + | GGCGACGGCAGTGGCTGCAG |
| 4225 | sgKAT2B_5 | KAT2B | chr3 | 20082265 | - | GCGAGCGCGTACCTTGCAGG |
| 4226 | sgKAT2B_6 | KAT2B | chr3 | 20167405 | + | TCTGTCAGCACACTCGGCCA |
| 4227 | sgKAT2B_7 | KAT2B | chr3 | 20167537 | - | GGTGGGAGAAAACGTTCTGT |
| 4228 | sgKAT2B_8 | KAT2B | chr3 | 20189457 | + | GAGACAGGCTGGAAACCGAG |
| 4229 | sgKAT2B_9 | KAT2B | chr3 | 20082209 | + | GCAACTACGCTCCGCTCCGC |
| 4230 | sgKAT2B_10 | KAT2B | chr3 | 20113944 | - | TTAGGAACTCACCTAGGGCA |
| 4231 | sgKAT5_1 | KAT5 | chr11 | 65479866 | + | GCTGCCGCCTACCCGTGCTG |
| 4232 | sgKAT5_2 | KAT5 | chr11 | 65479876 | - | GGTTCCGCCGCAGCACGGGT |
| 4233 | sgKAT5_3 | KAT5 | chr11 | 65481060 | + | GCAGAAACGGAAGGTGGAGG |
| 4234 | sgKAT5_4 | KAT5 | chr11 | 65479729 | + | GGGAGGGAAGATGGCGGAGG |
| 4235 | sgKAT5_5 | KAT5 | chr11 | 65480508 | + | TGGCTCTCCAGAGAGAGAGG |
| 4236 | sgKAT5_6 | KAT5 | chr11 | 65481100 | - | GGGGCTGTCTCGCTGGGCAC |
| 4237 | sgKAT5_7 | KAT5 | chr11 | 65481298 | + | GAATTGTTTGGGCACTGATG |
| 4238 | sgKAT5_8 | KAT5 | chr11 | 65482154 | - | GGCAGAACTCGCACAGGTAG |
| 4239 | sgKAT5_9 | KAT5 | chr11 | 65486155 | + | GACCATCCTGGAGATCCTGA |
| 4240 | sgKAT5_10 | KAT5 | chr11 | 65480497 | - | GGAGAGCCAGGACGGGACCC |
| 4241 | sgKIF4A_1 | KIF4A | chrX | 69510323 | + | GAAGGGAATTCCCGTAAGAG |
| 4242 | sgKIF4A_2 | KIF4A | chrX | 69595069 | - | GCTCCTGGAGACGTTTGCGG |
| 4243 | sgKIF4A_3 | KIF4A | chrX | 69606527 | + | TGTGCTCAGACGTAAAACGG |
| 4244 | sgKIF4A_4 | KIF4A | chrX | 69607059 | + | AGGATGCTCTCCAGAAACAA |
| 4245 | sgKIF4A_5 | KIF4A | chrX | 69607097 | + | CGGAAAGAGACTCAGAGCCG |
| 4246 | sgKIF4A_6 | KIF4A | chrX | 69615601 | + | AAAGATCCTGGCTCAAGATG |
| 4247 | sgKIF4A_7 | KIF4A | chrX | 69622466 | + | AAGACAGACCAAAACAACGC |
| 4248 | sgKIF4A_8 | KIF4A | chrX | 69521841 | - | CGACTGGGAGTTCATAGCCG |
| 4249 | sgKIF4A_9 | KIF4A | chrX | 69595996 | + | ATGCTGAGAAGTTTAGACAG |
| 4250 | sgKIF4A_10 | KIF4A | chrX | 69626904 | + | GTCCAGGAAGAACATCCAAG |
| 4251 | sgKIF4B_1 | KIF4B | chr5 | 154393524 | + | GCCCGGGGAGACTCAGGTGG |
| 4252 | sgKIF4B_2 | KIF4B | chr5 | 154393710 | + | AATGGGAGGTGCATACACTG |
| 4253 | sgKIF4B_3 | KIF4B | chr5 | 154393434 | + | GAAGGGAATTCCTGTAAGAG |
| 4254 | sgKIF4B_4 | KIF4B | chr5 | 154393571 | - | GGGGTCAAACACAAAATCGT |
| 4255 | sgKIF4B_5 | KIF4B | chr5 | 154395213 | - | GCTCCTGGAGAAGTTTGTGG |
| 4256 | sgKIF4B_6 | KIF4B | chr5 | 154395601 | + | CGGAAAGAGACTCAGAGCCA |
| 4257 | sgKIF4B_7 | KIF4B | chr5 | 154395732 | + | AAAGATCCTGGCTCAGGATG |
| 4258 | sgKIF4B_8 | KIF4B | chr5 | 154396598 | + | GTGATGGCGACAGTGATGAG |
| 4259 | sgKIF4B_9 | KIF4B | chr5 | 154396676 | + | AAGGGTGTTCCTGCAAGGGC |
| 4260 | sgKIF4B_10 | KIF4B | chr5 | 154396929 | + | AGAGATGTGTGACATGGAGC |
| 4261 | sgLDHD_1 | LDHD | chr16 | 75149534 | - | GCTCTGCAGGGACTTCGTAG |
| 4262 | sgLDHD_2 | LDHD | chr16 | 75149516 | - | AGAGGCTCTGAAGGCCGTGG |
| 4263 | sgLDHD_3 | LDHD | chr16 | 75149469 | + | GTGCTGCTCTCGGACCACCG |
| 4264 | sgLDHD_4 | LDHD | chr16 | 75149208 | + | GGCCACACCACAGCATCAGG |
| 4265 | sgLDHD_5 | LDHD | chr16 | 75148507 | + | GGTGCCGTAGCGGACCGCGT |
| 4266 | sgLDHD_6 | LDHD | chr16 | 75148482 | - | GGACAACGTGCTCAACCTGG |
| 4267 | sgLDHD_7 | LDHD | chr16 | 75147928 | + | ACTGGGGAACGCACACGTGG |
| 4268 | sgLDHD_8 | LDHD | chr16 | 75146793 | + | GATGGGCACACACACATCCG |

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|---|---|---|---|---|---|---|
| 4269 | sgLDHD_9 | LDHD | chr16 | 75146762 | - | GGAGATCGTGGTGCAGACCA |
| 4270 | sgLDHD_10 | LDHD | chr16 | 75146543 | - | GGTCAACCCTGATGACGCCG |
| 4271 | sgLRP1_1 | LRP1 | chr12 | 57522783 | + | GCTCTCAGCTCTGGTCGCGG |
| 4272 | sgLRP1_2 | LRP1 | chr12 | 57569847 | + | GTGGAGGACAAGATCTACCG |
| 4273 | sgLRP1_3 | LRP1 | chr12 | 57572301 | + | GACCGGCCACAATGTCACCG |
| 4274 | sgLRP1_4 | LRP1 | chr12 | 57578681 | + | GACAGGTGAGAACCGCGAGG |
| 4275 | sgLRP1_5 | LRP1 | chr12 | 57590897 | + | GAGGGCTATGCACCCCGCGG |
| 4276 | sgLRP1_6 | LRP1 | chr12 | 57605558 | - | AAGACGTGCTCCTCACACCG |
| 4277 | sgLRP1_7 | LRP1 | chr12 | 57522758 | - | CAGCAGCAGGAGCAACGGCG |
| 4278 | sgLRP1_8 | LRP1 | chr12 | 57535273 | + | GATGAGGGGCCCCACTGCCG |
| 4279 | sgLRP1_9 | LRP1 | chr12 | 57537528 | - | GCTGCTGTTGCAGTAGCAGG |
| 4280 | sgLRP1_10 | LRP1 | chr12 | 57537560 | + | GCAGATGGCAAGACCTGCAA |
| 4281 | sgLRP2_1 | LRP2 | chr2 | 170135898 | - | GCATCCTAGAGGAATTGCCG |
| 4282 | sgLRP2_2 | LRP2 | chr2 | 170048474 | + | GGAATGCACCTCCTGTCCGG |
| 4283 | sgLRP2_3 | LRP2 | chr2 | 170177289 | - | GACGCGGATGAAATTGGCTG |
| 4284 | sgLRP2_4 | LRP2 | chr2 | 170148864 | - | CCAGACTATCCGACCTGCGG |
| 4285 | sgLRP2_5 | LRP2 | chr2 | 170148848 | + | AGTGAACTGGTAACCACCGC |
| 4286 | sgLRP2_6 | LRP2 | chr2 | 170147399 | - | GATGGGATTTTAGATTGCCC |
| 4287 | sgLRP2_7 | LRP2 | chr2 | 170145558 | + | GTGGTTGATGATATAACCTG |
| 4288 | sgLRP2_8 | LRP2 | chr2 | 170136928 | - | GGAGTCTCAGAATCGTGGAG |
| 4289 | sgLRP2_9 | LRP2 | chr2 | 170136902 | + | ATAGTGGAAAGCCACACCCA |
| 4290 | sgLRP2_10 | LRP2 | chr2 | 170131731 | - | AGGAAGACTGTAGTTCATGG |
| 4291 | sgLYRM4_1 | LYRM4 | chr6 | 5216870 | - | AATAAAGCCAAGAGAGACCT |
| 4292 | sgLYRM4_2 | LYRM4 | chr6 | 5216956 | - | TTAGAACATATGCTGTCAGG |
| 4293 | sgLYRM4_3 | LYRM4 | chr6 | 5216850 | + | CCTGTCGACGAATTACTCCA |
| 4294 | sgLYRM4_4 | LYRM4 | chr6 | 5260937 | + | TAACACTTGTGCGCGACTGG |
| 4295 | sgLYRM4_5 | LYRM4 | chr6 | 5216860 | + | AATTACTCCAAGGTCTCTCT |
| 4296 | sgLYRM4_6 | LYRM4 | chr6 | 5260871 | + | GCTGGGTCACCTGTAATTGT |
| 4297 | sgLYRM4_7 | LYRM4 | chr6 | 5144455 | + | GTTCCCCGACTTCCTCCTGG |
| 4298 | sgLYRM4_8 | LYRM4 | chr6 | 5144470 | - | AGCAAGGCACAGCCGCCAGG |
| 4299 | sgLYRM4_9 | LYRM4 | chr6 | 5144440 | - | GGAACAGCAGCCGGAGCCTG |
| 4300 | sgLYRM4_10 | LYRM4 | chr6 | 5109666 | - | TTGAGAATCGAGACATGCCC |
| 4301 | sgLYRM7_1 | LYRM7 | chr5 | 130506701 | + | GGTGAGGAGAGCCATGGGAC |
| 4302 | sgLYRM7_2 | LYRM7 | chr5 | 130515795 | + | AGCTCTTTAAAACACTGCAC |
| 4303 | sgLYRM7_3 | LYRM7 | chr5 | 130515839 | + | AATGATGCCAGAGCATTAGA |
| 4304 | sgLYRM7_4 | LYRM7 | chr5 | 130506710 | + | AGCCATGGGACGGGCAGTCA |
| 4305 | sgLYRM7_5 | LYRM7 | chr5 | 130506715 | - | CACCTTGACTGCCCGTCCCA |
| 4306 | sgLYRM7_6 | LYRM7 | chr5 | 130535234 | - | CTACAAGAAGGTCTTTCCTA |
| 4307 | sgLYRM7_7 | LYRM7 | chr5 | 130535265 | - | TGAGTTGGTGCATCACAATA |
| 4308 | sgLYRM7_8 | LYRM7 | chr5 | 130535215 | + | TTCTTTCAGAACTGGTCCCT |
| 4309 | sgLYZ_1 | LYZ | chr12 | 69743998 | + | TGTAATGATGGCAAAACCCC |
| 4310 | sgLYZ_2 | LYZ | chr12 | 69742221 | - | CCTGGACCGTAACAGAAAGG |
| 4311 | sgLYZ_3 | LYZ | chr12 | 69742239 | - | ACCTTTCAAAGACCTTGCCC |
| 4312 | sgLYZ_4 | LYZ | chr12 | 69743893 | + | TGTTTGGCCAAATGGGAGAG |
| 4313 | sgLYZ_5 | LYZ | chr12 | 69743926 | + | CGAGCTACAAACTACAATGC |
| 4314 | sgLYZ_6 | LYZ | chr12 | 69744017 | - | ACAGGCATTAACTGCTCCTG |
| 4315 | sgLYZ_7 | LYZ | chr12 | 69746044 | + | AGGGTTGTCCGTGATCCACA |
| 4316 | sgLYZ_8 | LYZ | chr12 | 69742266 | + | GGCCAGAACTCTGAAAAGAT |
| 4317 | sgLYZ_9 | LYZ | chr12 | 69742285 | + | TTGGGAATGGATGGCTACAG |
| 4318 | sgLYZ_10 | LYZ | chr12 | 69743947 | + | GGAGACAGAAGCACTGATTA |
| 4319 | sgMARK3_1 | MARK3 | chr14 | 103941420 | - | ACTGCCACTTGATTTCCGGG |
| 4320 | sgMARK3_2 | MARK3 | chr14 | 103958173 | - | GAAGCGGATTCGATCTGGGG |
| 4321 | sgMARK3_3 | MARK3 | chr14 | 103958268 | - | GACAGGCTGGGAGAGGCAGG |
| 4322 | sgMARK3_4 | MARK3 | chr14 | 103871410 | + | CAGCACACGTCACATGGAGA |
| 4323 | sgMARK3_5 | MARK3 | chr14 | 103871532 | + | ACTGTTGAAAACAATCGGCA |
| 4324 | sgMARK3_6 | MARK3 | chr14 | 103932380 | - | GCACCAGGAAACGTTTGAGA |
| 4325 | sgMARK3_7 | MARK3 | chr14 | 103958235 | - | GTTGCGGTTCGCCGTTCCCG |
| 4326 | sgMARK3_8 | MARK3 | chr14 | 103871500 | + | GCAGATGAACAACCTCACAT |
| 4327 | sgMARK3_9 | MARK3 | chr14 | 103918299 | + | ATCATGGAATATGCAAGTGG |
| 4328 | sgMARK3_10 | MARK3 | chr14 | 103933507 | + | ATTGGGGAGAAAATCTTCAG |
| 4329 | sgMCOLN1_1 | MCOLN1 | chr19 | 7591383 | - | GAAGAGGTGTCGGAAGGCGA |

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|---|---|---|---|---|---|---|
| 4330 | sgMCOLN1_2 | MCOLN1 | chr19 | 7590019 | + | GCAAGTGGTCAAGATCCTGG |
| 4331 | sgMCOLN1_3 | MCOLN1 | chr19 | 7593550 | - | GAAGGAGTGAGCGGGCGCAG |
| 4332 | sgMCOLN1_4 | MCOLN1 | chr19 | 7593835 | + | GAAGATCGGCATCGAGGCCA |
| 4333 | sgMCOLN1_5 | MCOLN1 | chr19 | 7594019 | - | GCAGCGTCGAGGTGCCCAGG |
| 4334 | sgMCOLN1_6 | MCOLN1 | chr19 | 7587630 | + | CCCCAGCATGACAGCCCCGG |
| 4335 | sgMCOLN1_7 | MCOLN1 | chr19 | 7589875 | - | CCGCCTGGGTCCCATACCCG |
| 4336 | sgMCOLN1_8 | MCOLN1 | chr19 | 7589938 | - | AGTATTTGAGACGACGGCGA |
| 4337 | sgMCOLN1_9 | MCOLN1 | chr19 | 7592449 | - | AGAGGGTGAGATCGTCGCTG |
| 4338 | sgMCOLN1_10 | MCOLN1 | chr19 | 7593531 | - | GAGGAGGAAGGACAGGGAGC |
| 4339 | sgMDM4_1 | MDM4 | chr1 | 204494666 | - | AGATGTTGAACACTGAGCAG |
| 4340 | sgMDM4_2 | MDM4 | chr1 | 204494689 | + | AGTGCTTGCAGGATCTCTCC |
| 4341 | sgMDM4_3 | MDM4 | chr1 | 204518655 | + | TGTGAGAAAAGACCACGAGA |
| 4342 | sgMDM4_4 | MDM4 | chr1 | 204518729 | + | CAGAAGACTAAAGAAGGCTG |
| 4343 | sgMDM4_5 | MDM4 | chr1 | 204518547 | + | CAAGAGACCATCTCAAGCAT |
| 4344 | sgMDM4_6 | MDM4 | chr1 | 204518445 | - | GCATCTTTAGGTCTAACGAC |
| 4345 | sgMDM4_7 | MDM4 | chr1 | 204518492 | + | TTTTGATCCCTGCAACTCAG |
| 4346 | sgMDM4_8 | MDM4 | chr1 | 204518502 | - | AAGAATTCCACTGAGTTGCA |
| 4347 | sgMDM4_9 | MDM4 | chr1 | 204518557 | - | CTGTTCTCCCATGCTTGAGA |
| 4348 | sgMDM4_10 | MDM4 | chr1 | 204518670 | + | CGAGACGGGAACATTATTCA |
| 4349 | sgMETAP2_1 | METAP2 | chr12 | 95867984 | - | GCCATTCAGGTGGCTCCCGG |
| 4350 | sgMETAP2_2 | METAP2 | chr12 | 95905738 | + | GCCGATTGTGAAAGGAGGGG |
| 4351 | sgMETAP2_3 | METAP2 | chr12 | 95905753 | + | AGGGGAGGCAACAAGAATGG |
| 4352 | sgMETAP2_4 | METAP2 | chr12 | 95867994 | - | GATCCAGGTCGCCATTCAGG |
| 4353 | sgMETAP2_5 | METAP2 | chr12 | 95888772 | + | GAATGGATTAAATGCAGGCC |
| 4354 | sgMETAP2_6 | METAP2 | chr12 | 95867958 | + | GGCGGGTGTGGAGGAGGTAG |
| 4355 | sgMETAP2_7 | METAP2 | chr12 | 95868073 | + | CGAAAGAAGAAGAAGAGCAA |
| 4356 | sgMETAP2_8 | METAP2 | chr12 | 95869902 | + | ACAGTTGGAAAGATCAGCAT |
| 4357 | sgMETAP2_9 | METAP2 | chr12 | 95869866 | + | TAAAGAATCAGGAGCCTCAG |
| 4358 | sgMETAP2_10 | METAP2 | chr12 | 95879679 | - | CAGGTCACATATTGGAACTG |
| 4359 | sgMIPEP_1 | MIPEP | chr13 | 24463449 | - | GGTGCTAGAATGCTGTGCGT |
| 4360 | sgMIPEP_2 | MIPEP | chr13 | 24334314 | + | TAGCACCATACCCCACGAGG |
| 4361 | sgMIPEP_3 | MIPEP | chr13 | 24330716 | - | AGGGAGATGCTGGCCCACGG |
| 4362 | sgMIPEP_4 | MIPEP | chr13 | 24330699 | + | TGGGCTCCCTGCCTCCACCG |
| 4363 | sgMIPEP_5 | MIPEP | chr13 | 24463333 | - | CAGCACCAGCTGGTCTCCCG |
| 4364 | sgMIPEP_6 | MIPEP | chr13 | 24460502 | + | GAGCTCATCGAAGATCAGCA |
| 4365 | sgMIPEP_7 | MIPEP | chr13 | 24455878 | - | GCCAGCATTCAGAGAAGCTG |
| 4366 | sgMIPEP_8 | MIPEP | chr13 | 24444322 | - | CATACAGCGTAAAAGAGCAG |
| 4367 | sgMIPEP_9 | MIPEP | chr13 | 24443456 | + | GAGAGCCCTGTGAGAAAACG |
| 4368 | sgMIPEP_10 | MIPEP | chr13 | 24334329 | - | GCTGCGATTCAGCCACCTCG |
| 4369 | sgMMS19_1 | MMS19 | chr10 | 99221281 | + | AAAGCACTTGGCAGCAGCGG |
| 4370 | sgMMS19_2 | MMS19 | chr10 | 99236614 | + | GAGGTCATGGACGATGCGGA |
| 4371 | sgMMS19_3 | MMS19 | chr10 | 99230524 | + | AGACCCACCTCAGCAAATCG |
| 4372 | sgMMS19_4 | MMS19 | chr10 | 99229444 | - | GTATGGACAGAAGGAACTGA |
| 4373 | sgMMS19_5 | MMS19 | chr10 | 99229414 | + | TAGAAGCCCAAAGGCTGGGG |
| 4374 | sgMMS19_6 | MMS19 | chr10 | 99222363 | + | AGTGCCAATGACAGACACCA |
| 4375 | sgMMS19_7 | MMS19 | chr10 | 99220720 | - | GCTAGCTGTGGACAAAGTGG |
| 4376 | sgMMS19_8 | MMS19 | chr10 | 99220677 | + | GTGAAGGCCTGACTACGACA |
| 4377 | sgMMS19_9 | MMS19 | chr10 | 99219202 | + | GAAGAGGCTGAAGGCAGCTG |
| 4378 | sgMMS19_10 | MMS19 | chr10 | 99218968 | + | TGAGGTACTTACCACAGGGG |
| 4379 | sgMYLIP_1 | MYLIP | chr6 | 16129577 | + | GGACGCGGTGCTGATGGAGG |
| 4380 | sgMYLIP_2 | MYLIP | chr6 | 16141901 | - | GCTCTGGGGAACACAAGAGG |
| 4381 | sgMYLIP_3 | MYLIP | chr6 | 16144026 | + | TAAAATGATCAGCACCAGGG |
| 4382 | sgMYLIP_4 | MYLIP | chr6 | 16129599 | + | GAGGTGGAGGCGAAAGCCAA |
| 4383 | sgMYLIP_5 | MYLIP | chr6 | 16130882 | + | GGATCTCCCAGCAGATGGAT |
| 4384 | sgMYLIP_6 | MYLIP | chr6 | 16142032 | - | ACAGCCTCACCTGTTCAAGG |
| 4385 | sgMYLIP_7 | MYLIP | chr6 | 16143354 | + | CATTCTGTGCGGGATAGCGA |
| 4386 | sgMYLIP_8 | MYLIP | chr6 | 16145263 | + | GGTGTATGACCATGCCAGGA |
| 4387 | sgMYLIP_9 | MYLIP | chr6 | 16145372 | + | ATGAACTGCAGCAGCTGCGA |
| 4388 | sgMYLIP_10 | MYLIP | chr6 | 16145425 | + | GGAGAAGCTACGCAAGCTGA |
| 4389 | sgNDFIP1_1 | NDFIP1 | chr5 | 141511427 | - | GAAATGCTGCTGTAAGGTGG |
| 4390 | sgNDFIP1_2 | NDFIP1 | chr5 | 141511394 | + | GGAGAACCTGAACAGGCTGC |

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|---|---|---|---|---|---|---|
| 4391 | sgNDFIP1_3 | NDFIP1 | chr5 | 141517377 | - | AGAGAGACCAAATCCTGAAA |
| 4392 | sgNDFIP1_4 | NDFIP1 | chr5 | 141511439 | + | AGCATTTCTGCAGAGAGCGC |
| 4393 | sgNDFIP1_5 | NDFIP1 | chr5 | 141520156 | + | ATGGTCAGTACTGGCTCTGG |
| 4394 | sgNDFIP1_6 | NDFIP1 | chr5 | 141511873 | - | AGGGATAGTAGCTTCAGCCT |
| 4395 | sgNDFIP1_7 | NDFIP1 | chr5 | 141517344 | + | TGACCACTTCAGCTGCAGGA |
| 4396 | sgNDFIP1_8 | NDFIP1 | chr5 | 141488527 | + | TGCCGGCTGCGCCATGGCGT |
| 4397 | sgNDFIP1_9 | NDFIP1 | chr5 | 141488545 | + | GTTGGCGTTGGCGGCGCTGG |
| 4398 | sgNDFIP1_10 | NDFIP1 | chr5 | 141511841 | + | ACTGCCCAGTTATGATGAAG |
| 4399 | sgNDOR1_1 | NDOR1 | chr9 | 140109927 | - | AGGAGGAGCAGAGGCCCCGG |
| 4400 | sgNDOR1_2 | NDOR1 | chr9 | 140100242 | - | CCGAAGAGCACCAGAAGCTG |
| 4401 | sgNDOR1_3 | NDOR1 | chr9 | 140100343 | + | GGCCCTGGACTCCTACCCGG |
| 4402 | sgNDOR1_4 | NDOR1 | chr9 | 140100705 | - | GCACAAACAAATATCACCAG |
| 4403 | sgNDOR1_5 | NDOR1 | chr9 | 140107021 | - | GGAGTCCCCGAGGCCCAGGA |
| 4404 | sgNDOR1_6 | NDOR1 | chr9 | 140108309 | + | GCGATGACCAGCATGAGCTG |
| 4405 | sgNDOR1_7 | NDOR1 | chr9 | 140108700 | + | GCACGGGCTCTGAGGGGCAG |
| 4406 | sgNDOR1_8 | NDOR1 | chr9 | 140108751 | - | GAAGGGCTTCGACTCTGACG |
| 4407 | sgNDOR1_9 | NDOR1 | chr9 | 140109449 | + | GCCCCGCAGGACCATCCTGG |
| 4408 | sgNDOR1_10 | NDOR1 | chr9 | 140100357 | - | GCGAGCCCTCACCACCGGGT |
| 4409 | sgNEK6_1 | NEK6 | chr9 | 127064287 | + | ACAACCTCTGCCACACCCTG |
| 4410 | sgNEK6_2 | NEK6 | chr9 | 127074850 | + | AGGCCGAGGACAGTTCAGCG |
| 4411 | sgNEK6_3 | NEK6 | chr9 | 127064300 | - | GATGCACAGGCCCCAGGGTG |
| 4412 | sgNEK6_4 | NEK6 | chr9 | 127074798 | - | GCAGCGAAAAGACAGCGTGT |
| 4413 | sgNEK6_5 | NEK6 | chr9 | 127074907 | + | AGTGGCTCTGAAGAAGGTGC |
| 4414 | sgNEK6_6 | NEK6 | chr9 | 127083806 | + | GCTGGAGTTGGCTGACGCAG |
| 4415 | sgNEK6_7 | NEK6 | chr9 | 127088662 | + | TGTGCAGCTGTGCAGCGCCG |
| 4416 | sgNEK6_8 | NEK6 | chr9 | 127110075 | - | GAGTAGTGCTCCCCGGGGAG |
| 4417 | sgNEK6_9 | NEK6 | chr9 | 127074836 | + | ATCGAAAAGAAGATAGGCCG |
| 4418 | sgNEK6_10 | NEK6 | chr9 | 127076225 | + | GGCGAGGCAGGACTGTGTCA |
| 4419 | sgNIPA1_1 | NIPA1 | chr15 | 23052653 | + | GGAGTGGATAATCAGCACGA |
| 4420 | sgNIPA1_2 | NIPA1 | chr15 | 23060867 | - | AAACTTCCTGGCTTACACGG |
| 4421 | sgNIPA1_3 | NIPA1 | chr15 | 23060821 | + | GGTACTCCAAGGGCGCCCAG |
| 4422 | sgNIPA1_4 | NIPA1 | chr15 | 23052616 | - | GACAACTCAGGCTGAGCTGG |
| 4423 | sgNIPA1_5 | NIPA1 | chr15 | 23052681 | - | GGGTGCCTGCTAAGCTGTGC |
| 4424 | sgNIPA1_6 | NIPA1 | chr15 | 23060811 | + | TCACCCGAACGGTACTCCAA |
| 4425 | sgNIPA1_7 | NIPA1 | chr15 | 23052701 | - | TCAACATCTTGGGCAAGTTG |
| 4426 | sgNIPA1_8 | NIPA1 | chr15 | 23052597 | - | GAGGAAAAGCTGACCAATCC |
| 4427 | sgNIPA1_9 | NIPA1 | chr15 | 23052712 | - | GAAGGAAAAGCTCAACATCT |
| 4428 | sgNIPA1_10 | NIPA1 | chr15 | 23060890 | - | ACAGTGGCTGTTGGCCAGAT |
| 4429 | sgNIPAL1_1 | NIPAL1 | chr4 | 48035075 | - | AGAACACTCAAAGCACCCAG |
| 4430 | sgNIPAL1_2 | NIPAL1 | chr4 | 48018881 | - | TCTCGGCAGGGCTCTCCGGG |
| 4431 | sgNIPAL1_3 | NIPAL1 | chr4 | 48027118 | - | GATCTCACACCAAGCCTGGG |
| 4432 | sgNIPAL1_4 | NIPAL1 | chr4 | 48032146 | + | GACATTCTTACCTGAAGGAA |
| 4433 | sgNIPAL1_5 | NIPAL1 | chr4 | 48027101 | + | GGTCTGTCCAAACTCCTCCC |
| 4434 | sgNIPAL1_6 | NIPAL1 | chr4 | 48036991 | + | TATCCATGCCCCACAAGAAG |
| 4435 | sgNIPAL1_7 | NIPAL1 | chr4 | 48037004 | - | GATGTGACTTCCTCTTCTTG |
| 4436 | sgNIPAL1_8 | NIPAL1 | chr4 | 48035061 | - | ACCCAGAGGGGTGACCAAGG |
| 4437 | sgNIPAL1_9 | NIPAL1 | chr4 | 48018893 | - | AGACACAAACCTTCTCGGCA |
| 4438 | sgNIPAL1_10 | NIPAL1 | chr4 | 48027305 | + | AAAGAAGGGCCTCTTGCAAC |
| 4439 | sgNOX3_1 | NOX3 | chr6 | 155776203 | - | GTTCTACTGGTATGAAGAGG |
| 4440 | sgNOX3_2 | NOX3 | chr6 | 155774602 | - | GCTGCAGAGGACCGTGGAGG |
| 4441 | sgNOX3_3 | NOX3 | chr6 | 155764395 | + | GCAGGAACTCACTGTGGGGA |
| 4442 | sgNOX3_4 | NOX3 | chr6 | 155750151 | + | GTTCCAGGACTCCAGAGGGG |
| 4443 | sgNOX3_5 | NOX3 | chr6 | 155743876 | + | AGATTTCAGAAGAGCAGCGA |
| 4444 | sgNOX3_6 | NOX3 | chr6 | 155776910 | - | GGGGTGCTGGATTTTGAATG |
| 4445 | sgNOX3_7 | NOX3 | chr6 | 155764493 | - | CCACTGGAGCCAGTCCGAGG |
| 4446 | sgNOX3_8 | NOX3 | chr6 | 155761143 | + | GTACCAGAACAACTCATAGG |
| 4447 | sgNOX3_9 | NOX3 | chr6 | 155761094 | - | CAGCCTGGCCATCCATGGGA |
| 4448 | sgNOX3_10 | NOX3 | chr6 | 155750116 | - | GTGGCTTTAAAATGGCGCCA |
| 4449 | sgPARN_1 | PARN | chr16 | 14693799 | - | GGAGGAGCTGAATGATGCTG |
| 4450 | sgPARN_2 | PARN | chr16 | 14576522 | + | AGGGTGTAGGGTATGCACTG |
| 4451 | sgPARN_3 | PARN | chr16 | 14540827 | + | GGTCTGCTCAAGCTCAGTGT |

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|---|---|---|---|---|---|---|
| 4452 | sgPARN_4 | PARN | chr16 | 14704532 | - | ATGTCCTGTCACGATTCCTG |
| 4453 | sgPARN_5 | PARN | chr16 | 14647932 | + | GAAAAGCTGGTAAAGGTCGC |
| 4454 | sgPARN_6 | PARN | chr16 | 14576568 | - | GACTGAAGATAGCTGGAAGG |
| 4455 | sgPARN_7 | PARN | chr16 | 14540870 | - | GAGGAAGCTGGCCTGGAGGA |
| 4456 | sgPARN_8 | PARN | chr16 | 14711481 | + | GCTTGCTAGAAAGTCAATGC |
| 4457 | sgPARN_9 | PARN | chr16 | 14698005 | - | GCAGAAACATGCCAAAGAAC |
| 4458 | sgPARN_10 | PARN | chr16 | 14687147 | + | AGGTCACTTACCGCAGGCAG |
| 4459 | sgPDE4D_1 | PDE4D | chr5 | 58286645 | + | GCATGATAACAGTCAAGGGC |
| 4460 | sgPDE4D_2 | PDE4D | chr5 | 58271579 | - | GTGGACGGACCGGATAATGG |
| 4461 | sgPDE4D_3 | PDE4D | chr5 | 58287646 | + | GAAATCATCATACCTTGGCA |
| 4462 | sgPDE4D_4 | PDE4D | chr5 | 58271563 | - | ATGGAGGAGTTCTTCCGCCA |
| 4463 | sgPDE4D_5 | PDE4D | chr5 | 58271542 | - | GGAGACCGAGAGAGGGAACG |
| 4464 | sgPDE4D_6 | PDE4D | chr5 | 58287753 | - | AGACCAATGTCTCAGATCAG |
| 4465 | sgPDE4D_7 | PDE4D | chr5 | 58273104 | + | TAAAGCCCACAGCCAAATGA |
| 4466 | sgPDE4D_8 | PDE4D | chr5 | 58285647 | + | TGTGATAGGCCACATCAGCA |
| 4467 | sgPDE4D_9 | PDE4D | chr5 | 58273120 | + | ATGATGGTTCTCTAAGACTG |
| 4468 | sgPDE4D_10 | PDE4D | chr5 | 58272217 | - | ACTAAGAAAGTGACAAGCTC |
| 4469 | sgPRC1_1 | PRC1 | chr15 | 91527970 | - | GGAGCTAATTGGGATTCCAG |
| 4470 | sgPRC1_2 | PRC1 | chr15 | 91524158 | - | TGAAGAAGAAAGAGAAGCTG |
| 4471 | sgPRC1_3 | PRC1 | chr15 | 91519964 | - | AATCGATTTACAAACCGAGG |
| 4472 | sgPRC1_4 | PRC1 | chr15 | 91527982 | + | TTAGCTCCCATATTTCCCGA |
| 4473 | sgPRC1_5 | PRC1 | chr15 | 91527946 | - | CCAGCGGTTACAAAGAACTG |
| 4474 | sgPRC1_6 | PRC1 | chr15 | 91524803 | - | CACAAGCTTTGAAAGAGATG |
| 4475 | sgPRC1_7 | PRC1 | chr15 | 91523464 | + | GTACTAACCAGCACAGAAAG |
| 4476 | sgPRC1_8 | PRC1 | chr15 | 91519908 | - | GCTCCAGAAAATGCTGCCCA |
| 4477 | sgPRC1_9 | PRC1 | chr15 | 91517403 | - | CGAACACCTAGCAAGCGGCG |
| 4478 | sgPRC1_10 | PRC1 | chr15 | 91513645 | + | AAGGAGGAAGTCGAGACACG |
| 4479 | sgRAB6B_1 | RAB6B | chr3 | 133614303 | - | GCTGCCAGCACCATGTCCGC |
| 4480 | sgRAB6B_2 | RAB6B | chr3 | 133560156 | - | CTACATCCGGGACTCCACGG |
| 4481 | sgRAB6B_3 | RAB6B | chr3 | 133557087 | - | TAGGCAGATAACCATCGAGG |
| 4482 | sgRAB6B_4 | RAB6B | chr3 | 133560139 | + | GTACACCACCACAGCCACCG |
| 4483 | sgRAB6B_5 | RAB6B | chr3 | 133557019 | + | GTTGTAGCCAGTCTTCGCAC |
| 4484 | sgRAB6B_6 | RAB6B | chr3 | 133558363 | - | GGTGGGCAACAAGACGGACC |
| 4485 | sgRAB6B_7 | RAB6B | chr3 | 133558407 | - | GACGACGTCAGGACAGAGAG |
| 4486 | sgRAB6B_8 | RAB6B | chr3 | 133553424 | - | GTCCAGGAGAAAAGCAAAGA |
| 4487 | sgRAB6B_9 | RAB6B | chr3 | 133560220 | - | GACAGGTGCGACTGCAGCTC |
| 4488 | sgRAB6B_10 | RAB6B | chr3 | 133558381 | - | TGATGTTATCATCATGCTGG |
| 4489 | sgRASD1_1 | RASD1 | chr17 | 17399294 | + | GGATGGAGTAGAACTTGCGG |
| 4490 | sgRASD1_2 | RASD1 | chr17 | 17399273 | + | CGAGCTGGTAGACCTCGCCG |
| 4491 | sgRASD1_3 | RASD1 | chr17 | 17399358 | + | GGTGAGGAAGCGCGACACGA |
| 4492 | sgRASD1_4 | RASD1 | chr17 | 17399246 | + | GGTGGTTGCCGGACGTGTCG |
| 4493 | sgRASD1_5 | RASD1 | chr17 | 17399217 | + | GATGGAGAGGCGCCGCATGG |
| 4494 | sgRASD1_6 | RASD1 | chr17 | 17399387 | + | TGCCCACCTTGGACGAGCCG |
| 4495 | sgRASD1_7 | RASD1 | chr17 | 17399337 | + | GTAGGCGTCCTCGAAGCGGC |
| 4496 | sgRASD1_8 | RASD1 | chr17 | 17399204 | + | GCTCACCTGTGAGGATGGAG |
| 4497 | sgRASD1_9 | RASD1 | chr17 | 17399463 | + | GCACATCTTCTTGATCATCG |
| 4498 | sgRASD1_10 | RASD1 | chr17 | 17399453 | - | GAAGATGTGCCCGAGCGACT |
| 4499 | sgRSBN1_1 | RSBN1 | chr1 | 114354999 | - | GAAGAACGGCCGACAAGTGG |
| 4500 | sgRSBN1_2 | RSBN1 | chr1 | 114354971 | - | GGAGAGACTCCAATGCCCAG |
| 4501 | sgRSBN1_3 | RSBN1 | chr1 | 114354851 | - | GGTGCGCGTAGTACGGGCGG |
| 4502 | sgRSBN1_4 | RSBN1 | chr1 | 114354818 | - | GGAGCCGGACAAAGAGGGGA |
| 4503 | sgRSBN1_5 | RSBN1 | chr1 | 114354577 | + | GGTGCCAGCGAAGGTGGCGG |
| 4504 | sgRSBN1_6 | RSBN1 | chr1 | 114354881 | - | TGTGGGTGAAATGGCTGCGC |
| 4505 | sgRSBN1_7 | RSBN1 | chr1 | 114354800 | - | GAAGGAGAAACCTCATGCTG |
| 4506 | sgRSBN1_8 | RSBN1 | chr1 | 114354770 | + | GCTGCCGTTTAACTCCCCGC |
| 4507 | sgRSBN1_9 | RSBN1 | chr1 | 114354757 | - | CGGCAGCGCCGATCTAGCAG |
| 4508 | sgRSBN1_10 | RSBN1 | chr1 | 114354513 | + | CGAGAAGGTGAAGAGGGCCG |
| 4509 | sgRSBN1L_1 | RSBN1L | chr7 | 77325895 | - | TTGGCGGACAGAGAACCCGG |
| 4510 | sgRSBN1L_2 | RSBN1L | chr7 | 77326073 | - | GCTCCGAGAAGAGGACGGGG |
| 4511 | sgRSBN1L_3 | RSBN1L | chr7 | 77326136 | - | CGGCTGAGACAAGGAAGCGG |
| 4512 | sgRSBN1L_4 | RSBN1L | chr7 | 77326351 | + | GAGGTGAAGCCGCTGCCCCG |

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| 4513 | sgRSBN1L_5 | RSBN1L | chr7 | 77325926 | + | CTGAGGAGAAGAAGGCACCG |
| 4514 | sgRSBN1L_6 | RSBN1L | chr7 | 77325945 | + | GCGGAGAGTGAACGGAGAAG |
| 4515 | sgRSBN1L_7 | RSBN1L | chr7 | 77326056 | - | GGGAGGGAGCAGCAGACAGA |
| 4516 | sgRSBN1L_8 | RSBN1L | chr7 | 77326241 | - | GCGCGACTTGGCGTTAGCCG |
| 4517 | sgRSBN1L_9 | RSBN1L | chr7 | 77326290 | + | GAGGAGGCACGGTCTCGGTG |
| 4518 | sgRSBN1L_10 | RSBN1L | chr7 | 77379088 | + | ATAGAGCACCAGCCTAATGG |
| 4519 | sgSCARA5_1 | SCARA5 | chr8 | 27779098 | + | GGAGATGTTCCGCAGTGCGA |
| 4520 | sgSCARA5_2 | SCARA5 | chr8 | 27824043 | - | CAGGTCCATGTCACAAACGG |
| 4521 | sgSCARA5_3 | SCARA5 | chr8 | 27779511 | - | GCAGGCGGTGCAGACCGAGC |
| 4522 | sgSCARA5_4 | SCARA5 | chr8 | 27779436 | - | GGAGCTCTACCAGCTGCAGG |
| 4523 | sgSCARA5_5 | SCARA5 | chr8 | 27779175 | - | GCTGCAGCTGAAGCAGGAGC |
| 4524 | sgSCARA5_6 | SCARA5 | chr8 | 27764729 | - | GAGGTACCCCAGGATTGCCC |
| 4525 | sgSCARA5_7 | SCARA5 | chr8 | 27762304 | - | AGAGAAAGGAGACAGAGCTG |
| 4526 | sgSCARA5_8 | SCARA5 | chr8 | 27737236 | + | GACCTGAGCCATTCACCAGG |
| 4527 | sgSCARA5_9 | SCARA5 | chr8 | 27737152 | - | GGACAAGAAGGACGGAGACG |
| 4528 | sgSCARA5_10 | SCARA5 | chr8 | 27737107 | + | GGTACACCTCCTCCACACCG |
| 4529 | sgSCD_1 | SCD | chr10 | 102112187 | - | GCCGAGCTTTGTAAGAGCGG |
| 4530 | sgSCD_2 | SCD | chr10 | 102116488 | - | GAAACCAGGATATTCTCCCG |
| 4531 | sgSCD_3 | SCD | chr10 | 102116448 | - | AAGGACGATATCCGAAGAGG |
| 4532 | sgSCD_4 | SCD | chr10 | 102114247 | + | GATCCTCATAATTCCCGACG |
| 4533 | sgSCD_5 | SCD | chr10 | 102116344 | - | GTTTCACCCCAGAAATACCA |
| 4534 | sgSCD_6 | SCD | chr10 | 102112214 | - | CAATGATCAGAAAGAGCCGT |
| 4535 | sgSCD_7 | SCD | chr10 | 102116423 | - | AGCACTGTTCACCAGCCAGG |
| 4536 | sgSCD_8 | SCD | chr10 | 102114311 | + | ACCCAGCTGTCAAAGAGAAG |
| 4537 | sgSCD_9 | SCD | chr10 | 102107867 | - | TCCATTCTGCAGGACCCTGG |
| 4538 | sgSCD_10 | SCD | chr10 | 102107273 | - | TCACATCGTCCTGCAGCAAG |
| 4539 | sgSDHAF1_1 | SDHAF1 | chr19 | 36486385 | - | TACGAAGGCGCCCATGGCGG |
| 4540 | sgSDHAF1_2 | SDHAF1 | chr19 | 36486438 | + | GTGGGTTGCCAGCCTGACGA |
| 4541 | sgSDHAF1_3 | SDHAF1 | chr19 | 36486324 | + | ATCGAGTACCTGTACCGCCG |
| 4542 | sgSDHAF1_4 | SDHAF1 | chr19 | 36486219 | + | TACCGCGATCTGCTGCGCGC |
| 4543 | sgSDHAF1_5 | SDHAF1 | chr19 | 36486313 | - | GTACTCGATGCGCAGCACGT |
| 4544 | sgSDHAF1_6 | SDHAF1 | chr19 | 36486354 | + | CAGCTGCAGCTGCTACGCTC |
| 4545 | sgSDHAF1_7 | SDHAF1 | chr19 | 36486509 | - | CCTGTCACCGTCCGTCGGGG |
| 4546 | sgSDHAF1_8 | SDHAF1 | chr19 | 36486163 | + | GCTTAGCCGCGGTCATGAGC |
| 4547 | sgSDHAF1_9 | SDHAF1 | chr19 | 36486185 | + | GCACAGCCGGCTGCAGAGGC |
| 4548 | sgSDHAF1_10 | SDHAF1 | chr19 | 36486449 | - | GACTGTCGCCGTCGTCAGGC |
| 4549 | sgSET_1 | SET | chr9 | 131454951 | + | GCTTGGGGAGGAAGATGAAG |
| 4550 | sgSET_2 | SET | chr9 | 131454258 | + | ACATTTGTCAACCATCCACA |
| 4551 | sgSET_3 | SET | chr9 | 131454935 | + | GCCTAGTGTCTGCACTGCTT |
| 4552 | sgSET_4 | SET | chr9 | 131446265 | + | GCAGGCTTGCCGAAGAAGGG |
| 4553 | sgSET_5 | SET | chr9 | 131451852 | + | GAGCAGCACCATGTCGGCGC |
| 4554 | sgSET_6 | SET | chr9 | 131451895 | + | GAGCTCAACTCCAACCACGA |
| 4555 | sgSET_7 | SET | chr9 | 131452299 | - | CGTCCGGCCGCACCATGTGG |
| 4556 | sgSET_8 | SET | chr9 | 131451923 | - | GCTCTCACCTGAGGTCTCGT |
| 4557 | sgSET_9 | SET | chr9 | 131447467 | - | AGGTAGGTTTCAAGCTGGGC |
| 4558 | sgSET_10 | SET | chr9 | 131447483 | - | TGTGGCTCACCCAGCAAGGT |
| 4559 | sgSETD7_1 | SETD7 | chr4 | 140477258 | - | CGAGATGGTGGAGGAGGCGG |
| 4560 | sgSETD7_2 | SETD7 | chr4 | 140477270 | - | GGATAGCGACGACGAGATGG |
| 4561 | sgSETD7_3 | SETD7 | chr4 | 140468176 | - | GACGATGACGGATTACCGCA |
| 4562 | sgSETD7_4 | SETD7 | chr4 | 140468103 | - | TTCACGGAGAAAAGAACGGA |
| 4563 | sgSETD7_5 | SETD7 | chr4 | 140454479 | - | GATGATGCCTTGCAGGGCCA |
| 4564 | sgSETD7_6 | SETD7 | chr4 | 140454458 | - | GGAGTTTACACTTACGAAGA |
| 4565 | sgSETD7_7 | SETD7 | chr4 | 140444522 | + | AGGATCTGGAAGAAGAGCAT |
| 4566 | sgSETD7_8 | SETD7 | chr4 | 140441516 | - | GAATCTCTTATTTCCAGTGC |
| 4567 | sgSETD7_9 | SETD7 | chr4 | 140441433 | - | AGTTCGAATTACACACCAAG |
| 4568 | sgSETD7_10 | SETD7 | chr4 | 140439044 | + | GTAGATGCAGTTTGGAGTGA |
| 4569 | sgSGK1_1 | SGK1 | chr6 | 134495182 | + | AGGTTGGGAGATCTTCAAGA |
| 4570 | sgSGK1_2 | SGK1 | chr6 | 134493851 | + | GCAGCATAGAAACGAGCCCG |
| 4571 | sgSGK1_3 | SGK1 | chr6 | 134495711 | - | CCACAGCTTTCATGAAGCAG |
| 4572 | sgSGK1_4 | SGK1 | chr6 | 134495153 | + | GGGTTGGCATTCATAAGCTC |
| 4573 | sgSGK1_5 | SGK1 | chr6 | 134492199 | + | TCTGCAGGAGGCCCTCCAGG |

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| 4574 | sgSGK1_6 | SGK1 | chr6 | 134492178 | - | GGACAGGACAAAGCGGCTCG |
| 4575 | sgSGK1_7 | SGK1 | chr6 | 134494659 | + | GAGGATTGGACGACGGGCCA |
| 4576 | sgSGK1_8 | SGK1 | chr6 | 134494220 | + | AGTGAAGGCCCACCAGGAAA |
| 4577 | sgSGK1_9 | SGK1 | chr6 | 134494205 | + | CAGTCTGGAAAGAGAAGTGA |
| 4578 | sgSGK1_10 | SGK1 | chr6 | 134494168 | - | GTCCTAGACTACATTAATGG |
| 4579 | sgSLC22A17_1 | SLC22A17 | chr14 | 23817141 | + | GTAGTTGAGGAGGGAAGCAA |
| 4580 | sgSLC22A17_2 | SLC22A17 | chr14 | 23821323 | - | GAGCAGCCTCCCAATGCCAG |
| 4581 | sgSLC22A17_3 | SLC22A17 | chr14 | 23821286 | + | GCTGGCTGCTAGGGCAGCGC |
| 4582 | sgSLC22A17_4 | SLC22A17 | chr14 | 23821233 | + | GGGGCGAAGCCGCTGCACGA |
| 4583 | sgSLC22A17_5 | SLC22A17 | chr14 | 23821214 | + | GCAATGGTTGAAGTCCGGCG |
| 4584 | sgSLC22A17_6 | SLC22A17 | chr14 | 23818607 | + | TCAGCAGCACAATCCCGCGA |
| 4585 | sgSLC22A17_7 | SLC22A17 | chr14 | 23818517 | + | GAAAGCCCAAGAGGAATCGG |
| 4586 | sgSLC22A17_8 | SLC22A17 | chr14 | 23817457 | - | AGTGAAGCGGCAGATTGAGG |
| 4587 | sgSLC22A17_9 | SLC22A17 | chr14 | 23816774 | + | AGAGAAGAAGGATGCCCCGG |
| 4588 | sgSLC22A17_10 | SLC22A17 | chr14 | 23816339 | + | AAGGAGGGTGCTGAGGATGG |
| 4589 | sgSLC39A1_1 | SLC39A1 | chr1 | 153935072 | + | GAGCACCAGCAGCAGCACCA |
| 4590 | sgSLC39A1_2 | SLC39A1 | chr1 | 153935048 | + | GGGCACCAGGCTGCAGAGGA |
| 4591 | sgSLC39A1_3 | SLC39A1 | chr1 | 153935162 | + | CAGGAGCTCTGGCTCTCCCC |
| 4592 | sgSLC39A1_4 | SLC39A1 | chr1 | 153935131 | + | GCTCTGAAGCTACCGCCTCG |
| 4593 | sgSLC39A1_5 | SLC39A1 | chr1 | 153935101 | - | TGTGGGGCTGGAGGTGAAGT |
| 4594 | sgSLC39A1_6 | SLC39A1 | chr1 | 153935027 | + | TGGCCGGCGCAGCACACAGA |
| 4595 | sgSLC39A1_7 | SLC39A1 | chr1 | 153935007 | - | GGAGCTAACCATGAAGGCTC |
| 4596 | sgSLC39A1_8 | SLC39A1 | chr1 | 153934747 | + | CAGCAGGTCCAGGAGACAAG |
| 4597 | sgSLC39A1_9 | SLC39A1 | chr1 | 153935151 | + | GGGCGCCACACCAGGAGCTC |
| 4598 | sgSLC39A1_10 | SLC39A1 | chr1 | 153934800 | + | CTAGGCTCAGGGCTTTCTGG |
| 4599 | sgSLC39A10_1 | SLC39A10 | chr2 | 196545312 | - | CAAGATGATGATGCAAACGA |
| 4600 | sgSLC39A10_2 | SLC39A10 | chr2 | 196545408 | + | AACAGAGACCAATAAAACCC |
| 4601 | sgSLC39A10_3 | SLC39A10 | chr2 | 196581571 | + | TGAGGAAGCATAATCACCAG |
| 4602 | sgSLC39A10_4 | SLC39A10 | chr2 | 196581626 | - | GATCGGATCCAGAATGACAG |
| 4603 | sgSLC39A10_5 | SLC39A10 | chr2 | 196581696 | + | GGCATCCACAACTTCAGTGA |
| 4604 | sgSLC39A10_6 | SLC39A10 | chr2 | 196548503 | - | GATATAACAATGCAGGGCAA |
| 4605 | sgSLC39A10_7 | SLC39A10 | chr2 | 196581477 | + | ATAGACCATTCTCACAGTGA |
| 4606 | sgSLC39A10_8 | SLC39A10 | chr2 | 196581531 | + | GCTGCTGCACATAACCACCA |
| 4607 | sgSLC39A10_9 | SLC39A10 | chr2 | 196581551 | - | GCACAGTTTTGTTCTCGCCG |
| 4608 | sgSLC39A10_10 | SLC39A10 | chr2 | 196544838 | - | GGTCATGTTCTTCATGGCAA |
| 4609 | sgSLC39A11_1 | SLC39A11 | chr17 | 70645369 | - | GGGATCCAGAATTTCCCCGA |
| 4610 | sgSLC39A11_2 | SLC39A11 | chr17 | 70845883 | - | GCAGCCACTGGCCTTCCAGA |
| 4611 | sgSLC39A11_3 | SLC39A11 | chr17 | 70845835 | - | GGGAATCTGGCACAGCCCGG |
| 4612 | sgSLC39A11_4 | SLC39A11 | chr17 | 70645327 | + | GAGAAGCCTGCCCCTCGCAA |
| 4613 | sgSLC39A11_5 | SLC39A11 | chr17 | 70645050 | + | GCACCAAAGACCCCGGCCAG |
| 4614 | sgSLC39A11_6 | SLC39A11 | chr17 | 71084855 | + | AGAAGGTCCCCAGCAAGGCC |
| 4615 | sgSLC39A11_7 | SLC39A11 | chr17 | 71027795 | + | GACGTGGCCATCTCAACTGC |
| 4616 | sgSLC39A11_8 | SLC39A11 | chr17 | 71027691 | + | TCACCAAGTGAGGCATCAGG |
| 4617 | sgSLC39A11_9 | SLC39A11 | chr17 | 70845869 | + | GGACAGCAGGACCCTCTGGA |
| 4618 | sgSLC39A11_10 | SLC39A11 | chr17 | 70645081 | - | GTATGGGCAGCTGAGCGGCA |
| 4619 | sgSLC39A12_1 | SLC39A12 | chr10 | 18242296 | + | GCCCAGGATAGCAGAAGCCG |
| 4620 | sgSLC39A12_2 | SLC39A12 | chr10 | 18242280 | + | GACAGACAAACCCTCAGCCC |
| 4621 | sgSLC39A12_3 | SLC39A12 | chr10 | 18242414 | + | AGAAAACTGGGTGCCCACGG |
| 4622 | sgSLC39A12_4 | SLC39A12 | chr10 | 18254519 | - | GTCCCAGACAAACACCCTGG |
| 4623 | sgSLC39A12_5 | SLC39A12 | chr10 | 18276406 | + | AGAATACGGCTACAGCACGG |
| 4624 | sgSLC39A12_6 | SLC39A12 | chr10 | 18280116 | + | GGGCATTTCCATGAAAGCAA |
| 4625 | sgSLC39A12_7 | SLC39A12 | chr10 | 18242245 | - | CGGCTGAGTAGAAGAAACAA |
| 4626 | sgSLC39A12_8 | SLC39A12 | chr10 | 18250557 | + | AGATCAGCTTAGAGAAGAAG |
| 4627 | sgSLC39A12_9 | SLC39A12 | chr10 | 18270351 | - | GTAAGTGGCAGGAGCAGCTG |
| 4628 | sgSLC39A12_10 | SLC39A12 | chr10 | 18276441 | + | TCACACTGGGCTCCATGCTG |
| 4629 | sgSLC39A13_1 | SLC39A13 | chr11 | 47433496 | + | GCAGCTGCTCAGCTTCGCCC |
| 4630 | sgSLC39A13_2 | SLC39A13 | chr11 | 47431688 | - | GCAGTGAGGAAGAGGAGCCT |
| 4631 | sgSLC39A13_3 | SLC39A13 | chr11 | 47431717 | + | GGAGCTCTTGGAAAGGGCTG |
| 4632 | sgSLC39A13_4 | SLC39A13 | chr11 | 47433982 | + | GATGTTCCTGGACAGCAAGG |
| 4633 | sgSLC39A13_5 | SLC39A13 | chr11 | 47434975 | + | GCTGCCGCCGCGCTCAATGG |
| 4634 | sgSLC39A13_6 | SLC39A13 | chr11 | 47436384 | + | GCTGCAACTCTCAACAGCGC |

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| 4635 | sgSLC39A13_7 | SLC39A13 | chr11 | 47436644 | - | GATGTAGAGAAAGCCGCCAG |
| 4636 | sgSLC39A13_8 | SLC39A13 | chr11 | 47431661 | - | GCCATGCCACAGCCAGGGCA |
| 4637 | sgSLC39A13_9 | SLC39A13 | chr11 | 47431903 | + | GCTTGTCATTCCCCTAGAGA |
| 4638 | sgSLC39A13_10 | SLC39A13 | chr11 | 47433544 | + | GCATCTGCTGCCCGAAGCCT |
| 4639 | sgSLC39A14_1 | SLC39A14 | chr8 | 22265966 | + | GGAGAATGAGCAGACGGAGG |
| 4640 | sgSLC39A14_2 | SLC39A14 | chr8 | 22262427 | - | GGCCCACTCCCACATCCAGG |
| 4641 | sgSLC39A14_3 | SLC39A14 | chr8 | 22273658 | + | TGGATGATCACTCTGAGCGA |
| 4642 | sgSLC39A14_4 | SLC39A14 | chr8 | 22273768 | - | CATGTGGGAACTCCTCACAG |
| 4643 | sgSLC39A14_5 | SLC39A14 | chr8 | 22262348 | - | TATTAGATCCTGCAGGAAGG |
| 4644 | sgSLC39A14_6 | SLC39A14 | chr8 | 22265914 | - | GGAATCCAGCTGCTGGAGGA |
| 4645 | sgSLC39A14_7 | SLC39A14 | chr8 | 22273323 | + | CTCCAAGAAGGACCAGGAGG |
| 4646 | sgSLC39A14_8 | SLC39A14 | chr8 | 22273413 | + | GGACGGCAAGGCGCCCATGG |
| 4647 | sgSLC39A14_9 | SLC39A14 | chr8 | 22273679 | + | GGCCTCCATAATTTCATCGA |
| 4648 | sgSLC39A14_10 | SLC39A14 | chr8 | 22262276 | - | GGTTCTCCATAAGCCAAGCA |
| 4649 | sgSLC39A2_1 | SLC39A2 | chr14 | 21467971 | + | GCATATGACTGCTGAAGCCC |
| 4650 | sgSLC39A2_2 | SLC39A2 | chr14 | 21467929 | - | CACCAGCAGAAATACAGCCC |
| 4651 | sgSLC39A2_3 | SLC39A2 | chr14 | 21467942 | + | GCTGGTGTTTTCCTGGGAGC |
| 4652 | sgSLC39A2_4 | SLC39A2 | chr14 | 21467699 | + | TTCCAGATTGATGCAGCCAG |
| 4653 | sgSLC39A2_5 | SLC39A2 | chr14 | 21468010 | + | GATTCAGAAGTTCATGGTGC |
| 4654 | sgSLC39A2_6 | SLC39A2 | chr14 | 21467651 | + | TTGGCTCTCACTCTGGGCTG |
| 4655 | sgSLC39A2_7 | SLC39A2 | chr14 | 21467641 | - | TGAGAGCCAACAGGGCAAAC |
| 4656 | sgSLC39A2_8 | SLC39A2 | chr14 | 21467956 | - | TATGCATGAACCCTGCTCCC |
| 4657 | sgSLC39A2_9 | SLC39A2 | chr14 | 21467991 | - | CTGTGATTCAATTTCCTCCA |
| 4658 | sgSLC39A2_10 | SLC39A2 | chr14 | 21468284 | + | GCAAGTGAGAGAAATTCTTC |
| 4659 | sgSLC39A3_1 | SLC39A3 | chr19 | 2737207 | + | AGAACACGCCCACCATGCAC |
| 4660 | sgSLC39A3_2 | SLC39A3 | chr19 | 2737235 | + | GGCCACTAGCAATTTCACCA |
| 4661 | sgSLC39A3_3 | SLC39A3 | chr19 | 2737219 | - | GGCCAAAATCCTGTGCATGG |
| 4662 | sgSLC39A3_4 | SLC39A3 | chr19 | 2737150 | - | CATCGAGACAGATTTTGAGA |
| 4663 | sgSLC39A3_5 | SLC39A3 | chr19 | 2737105 | + | CAAAGGTGTTGCAGAGAGAG |
| 4664 | sgSLC39A3_6 | SLC39A3 | chr19 | 2737064 | + | CAGCAGAGCGTTGAAGCACG |
| 4665 | sgSLC39A3_7 | SLC39A3 | chr19 | 2737088 | + | CAGAAACACCCCTCCTCCAA |
| 4666 | sgSLC39A3_8 | SLC39A3 | chr19 | 2737048 | - | GCTGCCCGCTGTGAGGGAAA |
| 4667 | sgSLC39A3_9 | SLC39A3 | chr19 | 2737165 | + | CGATGATCTTCACGGGGAGC |
| 4668 | sgSLC39A3_10 | SLC39A3 | chr19 | 2733438 | - | CATCAGCACCGACTACCCGC |
| 4669 | sgSLC39A4_1 | SLC39A4 | chr8 | 145641353 | + | GCTGAGGTACAGGACGGCGG |
| 4670 | sgSLC39A4_2 | SLC39A4 | chr8 | 145640767 | - | TCAGCTGCTGGAGGAGGCGG |
| 4671 | sgSLC39A4_3 | SLC39A4 | chr8 | 145641295 | + | GGTCTGCATGAGAGGCCCAG |
| 4672 | sgSLC39A4_4 | SLC39A4 | chr8 | 145641235 | + | GCAGCAGCCAGCTCAGGCCC |
| 4673 | sgSLC39A4_5 | SLC39A4 | chr8 | 145640663 | + | GAAGTACTGAGGGCTCGGCA |
| 4674 | sgSLC39A4_6 | SLC39A4 | chr8 | 145640214 | - | ACAGGCTGGGGTGACCCCGG |
| 4675 | sgSLC39A4_7 | SLC39A4 | chr8 | 145639781 | + | GCAGATGAGCAGCGTGGCCA |
| 4676 | sgSLC39A4_8 | SLC39A4 | chr8 | 145639759 | + | GGAGGCCAAAGACCGCGCAG |
| 4677 | sgSLC39A4_9 | SLC39A4 | chr8 | 145639452 | - | GCTGCATACACACAGCGAAG |
| 4678 | sgSLC39A4_10 | SLC39A4 | chr8 | 145639190 | + | CCAGCTGCAGGGACACACCG |
| 4679 | sgSLC39A5_1 | SLC39A5 | chr12 | 56626555 | + | AAGGCCCCTCACCTACCCCG |
| 4680 | sgSLC39A5_2 | SLC39A5 | chr12 | 56626589 | - | GTGAAGGAGGTCCAGGCCCG |
| 4681 | sgSLC39A5_3 | SLC39A5 | chr12 | 56628652 | - | GAGGGGTCAGAGGAGCAGCG |
| 4682 | sgSLC39A5_4 | SLC39A5 | chr12 | 56628669 | - | CAGCAGAGCAAACTGACGAG |
| 4683 | sgSLC39A5_5 | SLC39A5 | chr12 | 56628959 | - | GCTGAGCAACAGGACTGCCA |
| 4684 | sgSLC39A5_6 | SLC39A5 | chr12 | 56630181 | + | GATGCTGCAGGCGAAAACGA |
| 4685 | sgSLC39A5_7 | SLC39A5 | chr12 | 56630497 | + | GGTCTACACAACCTCACTGA |
| 4686 | sgSLC39A5_8 | SLC39A5 | chr12 | 56631071 | - | GCAGTGACCCCAAACACCCA |
| 4687 | sgSLC39A5_9 | SLC39A5 | chr12 | 56628981 | - | GCAGGGATAGGGGAGAAGGG |
| 4688 | sgSLC39A5_10 | SLC39A5 | chr12 | 56629061 | - | ACAAAGAGTGCCCACCGCCA |
| 4689 | sgSLC39A6_1 | SLC39A6 | chr18 | 33694074 | - | GGCCTGCACAATTTCAGCGA |
| 4690 | sgSLC39A6_2 | SLC39A6 | chr18 | 33702148 | + | GAAGACAGATGACTGAAAAG |
| 4691 | sgSLC39A6_3 | SLC39A6 | chr18 | 33694213 | + | TATGATGGTAGTCATGATGG |
| 4692 | sgSLC39A6_4 | SLC39A6 | chr18 | 33694177 | + | GAGGATGGTGGTTTTGGTGG |
| 4693 | sgSLC39A6_5 | SLC39A6 | chr18 | 33694144 | + | GCTCCTCCCGAGAGTAGCGC |
| 4694 | sgSLC39A6_6 | SLC39A6 | chr18 | 33702188 | - | TAGCCATGAAGAACCAGCAA |
| 4695 | sgSLC39A6_7 | SLC39A6 | chr18 | 33702175 | - | CCAGCAATGGAAATGAAAAG |

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| 4696 | sgSLC39A6_8 | SLC39A6 | chr18 | 33702111 | - | GTGCCTATTTTGATTCCACG |
| 4697 | sgSLC39A6_9 | SLC39A6 | chr18 | 33694375 | + | CAGGCTGCTGAGAATCAAAG |
| 4698 | sgSLC39A6_10 | SLC39A6 | chr18 | 33694162 | + | GCTGGCTGTGACTGTGAGGA |
| 4699 | sgSLC39A7_1 | SLC39A7 | chr6 | 33170387 | + | AGAGGGGTTCAGAAGAGGCG |
| 4700 | sgSLC39A7_2 | SLC39A7 | chr6 | 33169049 | - | GCAGTCCCACGGCCACCCAG |
| 4701 | sgSLC39A7_3 | SLC39A7 | chr6 | 33169581 | - | GGGGAGAGTTCGACTCCACG |
| 4702 | sgSLC39A7_4 | SLC39A7 | chr6 | 33169600 | - | TGAAGTAGAGAGCGATGCCG |
| 4703 | sgSLC39A7_5 | SLC39A7 | chr6 | 33169881 | + | GGACATGGACACTCCCACAG |
| 4704 | sgSLC39A7_6 | SLC39A7 | chr6 | 33170111 | + | TTTGTGAGACATGTGAAAGG |
| 4705 | sgSLC39A7_7 | SLC39A7 | chr6 | 33170691 | - | TCAGGTACCCCGACACACGC |
| 4706 | sgSLC39A7_8 | SLC39A7 | chr6 | 33169018 | + | GCGTGATGGCCAGAGGCCTG |
| 4707 | sgSLC39A7_9 | SLC39A7 | chr6 | 33169075 | - | CAGAAGCCCCAAGGTCGCCC |
| 4708 | sgSLC39A7_10 | SLC39A7 | chr6 | 33169187 | - | GGGCATGGCTGTGGCCATGG |
| 4709 | sgSLC39A8_1 | SLC39A8 | chr4 | 103189017 | + | AGAGCTCCTTACCTAACTCG |
| 4710 | sgSLC39A8_2 | SLC39A8 | chr4 | 103265729 | - | GCCAGGGCTAGCCTTCAGCG |
| 4711 | sgSLC39A8_3 | SLC39A8 | chr4 | 103228691 | + | GTGGAGTCAAAATCAATCCG |
| 4712 | sgSLC39A8_4 | SLC39A8 | chr4 | 103189124 | - | GCCCTCCACAATTTCATCGA |
| 4713 | sgSLC39A8_5 | SLC39A8 | chr4 | 103265751 | - | GCCTCGGAGGAGTGGCGGAG |
| 4714 | sgSLC39A8_6 | SLC39A8 | chr4 | 103265715 | + | GCTCAGCACATCCTCGCTGA |
| 4715 | sgSLC39A8_7 | SLC39A8 | chr4 | 103236907 | + | GATGACAGAGAATTTGGAGC |
| 4716 | sgSLC39A8_8 | SLC39A8 | chr4 | 103265780 | - | GGCCGGGCTCCTGTTGCTGG |
| 4717 | sgSLC39A8_9 | SLC39A8 | chr4 | 103265654 | + | CCATCTGCTCCAGCAAGTGC |
| 4718 | sgSLC39A8_10 | SLC39A8 | chr4 | 103189075 | + | GAGTCCCTGAAGGAGAGACA |
| 4719 | sgSLC39A9_1 | SLC39A9 | chr14 | 69908915 | - | GAAAACGAAGCCCAGAACGA |
| 4720 | sgSLC39A9_2 | SLC39A9 | chr14 | 69922455 | - | GAAACCAGTCCAAAAGCAGC |
| 4721 | sgSLC39A9_3 | SLC39A9 | chr14 | 69922477 | - | TAAGCCAGCATGCATCAAGA |
| 4722 | sgSLC39A9_4 | SLC39A9 | chr14 | 69890849 | - | CCAGAGCAGTTCCACAGAGA |
| 4723 | sgSLC39A9_5 | SLC39A9 | chr14 | 69922517 | + | GCACTTGCTGGTCTTTGCAT |
| 4724 | sgSLC39A9_6 | SLC39A9 | chr14 | 69866113 | + | GCTGTCTCTGGCTATGTTGG |
| 4725 | sgSLC39A9_7 | SLC39A9 | chr14 | 69866163 | - | CTCTGAGAAATTAACAGCCA |
| 4726 | sgSLC39A9_8 | SLC39A9 | chr14 | 69908966 | - | ACCGTCAGTAGAATGCACAT |
| 4727 | sgSLC39A9_9 | SLC39A9 | chr14 | 69922558 | - | CAGTCCTAAGTATGTCACCA |
| 4728 | sgSLC39A9_10 | SLC39A9 | chr14 | 69866143 | + | CGTGGCCGGAATCATTCCCT |
| 4729 | sgSOD2_1 | SOD2 | chr6 | 160113723 | - | GAACAACCTGAACGTCACCG |
| 4730 | sgSOD2_2 | SOD2 | chr6 | 160113753 | - | GCACCACAGCAAGCACCACG |
| 4731 | sgSOD2_3 | SOD2 | chr6 | 160113702 | - | GGAGAAGTACCAGGAGGCGT |
| 4732 | sgSOD2_4 | SOD2 | chr6 | 160105961 | + | GCCAACCCCAACCTGAGCCT |
| 4733 | sgSOD2_5 | SOD2 | chr6 | 160106003 | - | CAAGTTTAAGGAGAAGCTGA |
| 4734 | sgSOD2_6 | SOD2 | chr6 | 160105944 | - | GGCTTGGTTTCAATAAGGAA |
| 4735 | sgSOD2_7 | SOD2 | chr6 | 160105882 | + | TAACCTGTTGTTCCTTGCAG |
| 4736 | sgSOD2_8 | SOD2 | chr6 | 160113816 | + | AGTCGTAGGGCAGGTCGGGG |
| 4737 | sgSOD2_9 | SOD2 | chr6 | 160113735 | + | GGTTGTTCACGTAGGCCGCG |
| 4738 | sgSOD2_10 | SOD2 | chr6 | 160106035 | - | GAAGCCATCAAACGTGACTT |
| 4739 | sgSP1_1 | SP1 | chr12 | 53800474 | + | AAGCCGGTCGGAGGACCCGG |
| 4740 | sgSP1_2 | SP1 | chr12 | 53775957 | + | GAGAACAGCAACAACTCCCA |
| 4741 | sgSP1_3 | SP1 | chr12 | 53776143 | + | AAGAATCGCACAGTCTCTGG |
| 4742 | sgSP1_4 | SP1 | chr12 | 53777080 | + | TCATCCGGACACCAACAGTG |
| 4743 | sgSP1_5 | SP1 | chr12 | 53775565 | + | GGCAGTAGCAGCAGCACTGG |
| 4744 | sgSP1_6 | SP1 | chr12 | 53776374 | + | ATCACAAATCGAGGAAGTGG |
| 4745 | sgSP1_7 | SP1 | chr12 | 53776719 | + | ACTACTACCACCAGCAACAT |
| 4746 | sgSP1_8 | SP1 | chr12 | 53776783 | + | CTCAAGGCCAGACACCCCAG |
| 4747 | sgSP1_9 | SP1 | chr12 | 53776842 | + | CAGCAAAACCAGACATCTGG |
| 4748 | sgSP1_10 | SP1 | chr12 | 53776967 | - | GTGCTGCTTGGAGGGCCTGG |
| 4749 | sgSTEAP1B_1 | STEAP1B | chr7 | 22533347 | - | TTCAGAACTTCAGCACGCAC |
| 4750 | sgSTEAP1B_2 | STEAP1B | chr7 | 22459413 | + | GCAGGATCTGTCACAAGGTC |
| 4751 | sgSTEAP1B_3 | STEAP1B | chr7 | 22478304 | - | CTGGCCAAGACACAACTGGT |
| 4752 | sgSTEAP1B_4 | STEAP1B | chr7 | 22478196 | - | TCAGCAGCCAGCCCTTCAAA |
| 4753 | sgSTEAP1B_5 | STEAP1B | chr7 | 22478186 | + | AACATTTCCCTTTGAAGGGC |
| 4754 | sgSTEAP1B_6 | STEAP1B | chr7 | 22478284 | - | AGGCACACCAAATTTCTGGC |
| 4755 | sgSTEAP1B_7 | STEAP1B | chr7 | 22478235 | + | CTCCTAGTCTTGGAAGGTGG |
| 4756 | sgSTEAP1B_8 | STEAP1B | chr7 | 22478271 | - | TTCTGGCAGGAGCAGCAGTG |

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|---|---|---|---|---|---|---|
| 4757 | sgSTEAP1B_9 | STEAP1B | chr7 | 22532249 | - | ACTGGCAATACTGGCTCTGT |
| 4758 | sgSTEAP1B_10 | STEAP1B | chr7 | 22533397 | + | TGCTGCAAATGCAAAAGCAC |
| 4759 | sgTMEM199_1 | TMEM199 | chr17 | 26684849 | - | GACGGAAAGAAACCAAGCGT |
| 4760 | sgTMEM199_2 | TMEM199 | chr17 | 26684805 | + | CTGGGGAAGAAGCACAAGGG |
| 4761 | sgTMEM199_3 | TMEM199 | chr17 | 26684764 | + | AGCGGCTACCCCGAAAGCTG |
| 4762 | sgTMEM199_4 | TMEM199 | chr17 | 26684867 | - | GGTGCAGATCCCGGATGAGA |
| 4763 | sgTMEM199_5 | TMEM199 | chr17 | 26686007 | - | TATCCCTTACATACCCGTGG |
| 4764 | sgTMEM199_6 | TMEM199 | chr17 | 26686361 | + | GGAGAAGATTAAGATACAGC |
| 4765 | sgTMEM199_7 | TMEM199 | chr17 | 26684820 | + | AAGGGCGGTGATAGCTCCAG |
| 4766 | sgTMEM199_8 | TMEM199 | chr17 | 26685955 | - | TGCCTTCTAGGAGCTCATGG |
| 4767 | sgTMEM199_9 | TMEM199 | chr17 | 26687546 | + | TCCCAGGATACAAGACATGG |
| 4768 | sgTMEM199_10 | TMEM199 | chr17 | 26684727 | + | GTGCGTGCTTTGGGCCCCGG |
| 4769 | sgTSHZ1_1 | TSHZ1 | chr18 | 72997663 | - | GAGACGCTGTCGGGACACTG |
| 4770 | sgTSHZ1_2 | TSHZ1 | chr18 | 72997928 | - | GGAGCTGCTGCTGGTACTGG |
| 4771 | sgTSHZ1_3 | TSHZ1 | chr18 | 72998198 | + | ACTCCGAGAAGACCAAGAGG |
| 4772 | sgTSHZ1_4 | TSHZ1 | chr18 | 72998393 | - | GGAGGGGACCAGTTTGGTGA |
| 4773 | sgTSHZ1_5 | TSHZ1 | chr18 | 72998814 | + | AAAGCAGCCCGACTCTCCCG |
| 4774 | sgTSHZ1_6 | TSHZ1 | chr18 | 72998984 | + | TGGACGACAGCCCCAAGGGA |
| 4775 | sgTSHZ1_7 | TSHZ1 | chr18 | 72999064 | + | AATGGTGCGCCCTCATGGGG |
| 4776 | sgTSHZ1_8 | TSHZ1 | chr18 | 72999253 | - | GACACGTTGCTCTTGTGCGG |
| 4777 | sgTSHZ1_9 | TSHZ1 | chr18 | 72999282 | + | GGAGCTGGTGGAGAAGGTCA |
| 4778 | sgTSHZ1_10 | TSHZ1 | chr18 | 72999533 | + | CCAACGGCTGTAACAACCTG |
| 4779 | sgTSHZ2_1 | TSHZ2 | chr20 | 51870051 | + | GGAACAGCTGAAAGAAGAGG |
| 4780 | sgTSHZ2_2 | TSHZ2 | chr20 | 51870069 | + | GGAGGAAATAAAAGAAGAGG |
| 4781 | sgTSHZ2_3 | TSHZ2 | chr20 | 51870109 | + | TCAGTAGCTCAACTGCAGGG |
| 4782 | sgTSHZ2_4 | TSHZ2 | chr20 | 51870126 | + | GGGTGGCAATGACACAGGGA |
| 4783 | sgTSHZ2_5 | TSHZ2 | chr20 | 51870554 | - | GAACAGGCTGGGTTTCGAGA |
| 4784 | sgTSHZ2_6 | TSHZ2 | chr20 | 51870609 | + | GTGCGGGACTGTGTTCACAG |
| 4785 | sgTSHZ2_7 | TSHZ2 | chr20 | 51871254 | + | GGTATTAGACCCGTTAGCAG |
| 4786 | sgTSHZ2_8 | TSHZ2 | chr20 | 51871516 | + | GAAGATGGCTCAAAGGGTGG |
| 4787 | sgTSHZ2_9 | TSHZ2 | chr20 | 51871703 | + | CTAATCTCACCAACAAGCTG |
| 4788 | sgTSHZ2_10 | TSHZ2 | chr20 | 51871756 | - | TGTGTGGGCATAGAAACCAG |
| 4789 | sgTSHZ3_1 | TSHZ3 | chr19 | 31840117 | - | GGAGAAGCATCATGCCGAGG |
| 4790 | sgTSHZ3_2 | TSHZ3 | chr19 | 31840099 | - | GGAGGAAGCAGCAGGCGCCC |
| 4791 | sgTSHZ3_3 | TSHZ3 | chr19 | 31840077 | + | GGCTCGTACCTGCTGCGCGC |
| 4792 | sgTSHZ3_4 | TSHZ3 | chr19 | 31768092 | + | GGAGATGCTGGAAGGAGTGG |
| 4793 | sgTSHZ3_5 | TSHZ3 | chr19 | 31770513 | + | GGAGTTCTGGTAGCTGGGGC |
| 4794 | sgTSHZ3_6 | TSHZ3 | chr19 | 31770398 | - | GAACGAAGAGGAGACCAAGG |
| 4795 | sgTSHZ3_7 | TSHZ3 | chr19 | 31770344 | - | GGATAGCCTGGAGCAGATGA |
| 4796 | sgTSHZ3_8 | TSHZ3 | chr19 | 31770003 | + | GTGCACCGTCAACTCCACCA |
| 4797 | sgTSHZ3_9 | TSHZ3 | chr19 | 31769993 | - | GACGGTGCACATGAACGAGA |
| 4798 | sgTSHZ3_10 | TSHZ3 | chr19 | 31769940 | - | ATAACAACAACCCCAAGCGC |
| 4799 | sgTYW1_1 | TYW1 | chr7 | 66548414 | + | TAGGCACCACACCAACCCCG |
| 4800 | sgTYW1_2 | TYW1 | chr7 | 66483109 | + | ATTGCATCATAGAGACACCG |
| 4801 | sgTYW1_3 | TYW1 | chr7 | 66463161 | + | CCAGATTGTCATCAAGACGC |
| 4802 | sgTYW1_4 | TYW1 | chr7 | 66520853 | + | GAAGCTTTGCAGGTGGACAA |
| 4803 | sgTYW1_5 | TYW1 | chr7 | 66548431 | + | CCGTGGGCACTGAGTGGCGG |
| 4804 | sgTYW1_6 | TYW1 | chr7 | 66660243 | - | GGATCAGATCCACCAACTCG |
| 4805 | sgTYW1_7 | TYW1 | chr7 | 66483082 | + | GGAGGAAGGATCTCATGAGC |
| 4806 | sgTYW1_8 | TYW1 | chr7 | 66532272 | + | TCCATGCTCCGAGGGAGAGG |
| 4807 | sgTYW1_9 | TYW1 | chr7 | 66582476 | - | ACAGCTGAGTAACCGGCTCG |
| 4808 | sgTYW1_10 | TYW1 | chr7 | 66660200 | - | ATGCCAGGGCACGTGGGCCA |
| 4809 | sgUBE2D1_1 | UBE2D1 | chr10 | 60121125 | - | CCAGCTGAACAGTGAGCAGG |
| 4810 | sgUBE2D1_2 | UBE2D1 | chr10 | 60123369 | + | CCTGATAGCGCATATCAAGG |
| 4811 | sgUBE2D1_3 | UBE2D1 | chr10 | 60121273 | - | ACTTACAGGCCCCATAATAG |
| 4812 | sgUBE2D1_4 | UBE2D1 | chr10 | 60121262 | - | CCATAATAGTGGCTTGCCAG |
| 4813 | sgUBE2D1_5 | UBE2D1 | chr10 | 60124615 | + | CCAGCTCTGACTGTATCAAA |
| 4814 | sgUBE2D1_6 | UBE2D1 | chr10 | 60121149 | - | GGCTTACAGTCATCTCCCAC |
| 4815 | sgUBE2D1_7 | UBE2D1 | chr10 | 60127732 | - | GTGCAATATCTGGTACTAAG |
| 4816 | sgUBE2D1_8 | UBE2D1 | chr10 | 60094963 | - | CTGAATCCTCTTCAGCGCCA |
| 4817 | sgUBE2D1_9 | UBE2D1 | chr10 | 60121243 | + | TGTTTGTTTCAGTGTTCCAC |

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|---|---|---|---|---|---|---|
| 4818 | sgUBE2D1_10 | UBE2D1 | chr10 | 60124589 | + | TCGATATTCTGAGGTCACAA |
| 4819 | sgUQCRC1_1 | UQCRC1 | chr3 | 48646673 | + | GAACTGGAGCGCCTGAGCGA |
| 4820 | sgUQCRC1_2 | UQCRC1 | chr3 | 48646604 | + | GGGCTGAGAGGACTGCTCGG |
| 4821 | sgUQCRC1_3 | UQCRC1 | chr3 | 48638524 | + | AAGGTAGAGCATCATCACGG |
| 4822 | sgUQCRC1_4 | UQCRC1 | chr3 | 48646972 | + | GCCACCACCTCACCGAGCGG |
| 4823 | sgUQCRC1_5 | UQCRC1 | chr3 | 48641805 | - | GGAAGACTCACAGATTGAGA |
| 4824 | sgUQCRC1_6 | UQCRC1 | chr3 | 48640999 | - | ATGGTGCTGGCAGCAGCTGG |
| 4825 | sgUQCRC1_7 | UQCRC1 | chr3 | 48638797 | + | GAAGCGGCATGGAGTAAGAG |
| 4826 | sgUQCRC1_8 | UQCRC1 | chr3 | 48637959 | - | ACGGAGAGTGAGGTGGCCCG |
| 4827 | sgUQCRC1_9 | UQCRC1 | chr3 | 48646687 | - | GAGTACGGCAACCTTCGCTC |
| 4828 | sgUQCRC1_10 | UQCRC1 | chr3 | 48646615 | + | ACTGCTCGGAGGCCACACGC |
| 4829 | sgUQCRC2_1 | UQCRC2 | chr16 | 21969871 | + | TCATCTTTCAAGATAACCCG |
| 4830 | sgUQCRC2_2 | UQCRC2 | chr16 | 21974161 | - | GCTTTGTCAATCTTTAGCTG |
| 4831 | sgUQCRC2_3 | UQCRC2 | chr16 | 21982920 | + | GCAAAGGCCAACTACCGTGG |
| 4832 | sgUQCRC2_4 | UQCRC2 | chr16 | 21973796 | + | GGAAAACATGGCTTATACTG |
| 4833 | sgUQCRC2_5 | UQCRC2 | chr16 | 21976805 | + | TGGAAAAGTGACATCAGAGG |
| 4834 | sgUQCRC2_6 | UQCRC2 | chr16 | 21982881 | + | CAGTTTCTCAACATGAGGGG |
| 4835 | sgUQCRC2_7 | UQCRC2 | chr16 | 21964767 | - | TGAGCTCACCGAGAAAGAGC |
| 4836 | sgUQCRC2_8 | UQCRC2 | chr16 | 21968628 | - | GGACTAACCTCAAGGTCCTG |
| 4837 | sgUQCRC2_9 | UQCRC2 | chr16 | 21968859 | - | TGTAAGACGCAGCAAATGGG |
| 4838 | sgUQCRC2_10 | UQCRC2 | chr16 | 21973826 | - | GTACTTACACATCACCCCGC |
| 4839 | sgVWF_1 | VWF | chr12 | 6172167 | - | CGTGCGCCTCAGCTACGGGG |
| 4840 | sgVWF_2 | VWF | chr12 | 6140645 | - | GAAACGGGTCACCATCCTGG |
| 4841 | sgVWF_3 | VWF | chr12 | 6105215 | - | GGGCTGCATGAAATCCATCG |
| 4842 | sgVWF_4 | VWF | chr12 | 6232341 | - | GATTCCTGCCAGATTTGCCG |
| 4843 | sgVWF_5 | VWF | chr12 | 6230446 | + | GAAAAGGCTGCATCGGGCCG |
| 4844 | sgVWF_6 | VWF | chr12 | 6219644 | - | GTGGCCAGGATCGATGGCAG |
| 4845 | sgVWF_7 | VWF | chr12 | 6184661 | + | GTGGCAGCGGGCAAACACCG |
| 4846 | sgVWF_8 | VWF | chr12 | 6181512 | + | CGAGAGAGGGAGGTGCCGGG |
| 4847 | sgVWF_9 | VWF | chr12 | 6181499 | + | GGTGTTGCAGTCTCGAGAGA |
| 4848 | sgVWF_10 | VWF | chr12 | 6180491 | - | GCATTTGCCGAAACAGCCAG |
| 4849 | CTRL00001 | NA | NA | NA | NA | GGTCCATGGGTGGAGTTACG |
| 4850 | CTRL00002 | NA | NA | NA | NA | GGACGCTAAACCAACGGTGC |
| 4851 | CTRL00003 | NA | NA | NA | NA | GCCGTGCCGTAGCTATCCGG |
| 4852 | CTRL00004 | NA | NA | NA | NA | GTCCGTTCGACAATTTCACA |
| 4853 | CTRL00005 | NA | NA | NA | NA | GTACAGCTAAGTTAAACTCG |
| 4854 | CTRL00006 | NA | NA | NA | NA | GCTGCTTGCGATACCAATAG |
| 4855 | CTRL00007 | NA | NA | NA | NA | GTGACACAGGGAACGAGGCG |
| 4856 | CTRL00008 | NA | NA | NA | NA | GGACACGGCATTTCCGCTGT |
| 4857 | CTRL00009 | NA | NA | NA | NA | GCTGGTATACCGTCTTCATC |
| 4858 | CTRL00010 | NA | NA | NA | NA | GGGACAAGTTGGACAGTTGC |
| 4859 | CTRL00011 | NA | NA | NA | NA | GTCGGGCCGCTATATAGGCG |
| 4860 | CTRL00012 | NA | NA | NA | NA | GATTTGATGTGGTGCTCACA |
| 4861 | CTRL00013 | NA | NA | NA | NA | GAGCAGCGCGACAACCCATT |
| 4862 | CTRL00014 | NA | NA | NA | NA | GAGTCTGACGTCGACTATCT |
| 4863 | CTRL00015 | NA | NA | NA | NA | GTGCATCAACAAGTACGCGT |
| 4864 | CTRL00016 | NA | NA | NA | NA | GTAACGCAGTACTTAGGGCC |
| 4865 | CTRL00017 | NA | NA | NA | NA | GTAGCCGAATTCGTTACGTA |
| 4866 | CTRL00018 | NA | NA | NA | NA | GGTGATCCTAGTCGACTGGC |
| 4867 | CTRL00019 | NA | NA | NA | NA | GGGTGCGACAACAATTGATC |
| 4868 | CTRL00020 | NA | NA | NA | NA | GCCGCACAGGGAACGCATAT |
| 4869 | CTRL00021 | NA | NA | NA | NA | GTCCCGAGTCGCGCTCTCGA |
| 4870 | CTRL00022 | NA | NA | NA | NA | GCTATTGTCGGCTGGATGGA |
| 4871 | CTRL00023 | NA | NA | NA | NA | GGCTGGTGGCTTACTTACCT |
| 4872 | CTRL00024 | NA | NA | NA | NA | GATCGGCAGGTTACCTCTGA |
| 4873 | CTRL00025 | NA | NA | NA | NA | GCTAGATCTACGTAGCGTGC |
| 4874 | CTRL00026 | NA | NA | NA | NA | GCGGCTAATTGTAGGTCCAT |
| 4875 | CTRL00027 | NA | NA | NA | NA | GCTACTCCGCATGCCACTAC |
| 4876 | CTRL00028 | NA | NA | NA | NA | GTGTCGCGAGCACCGCGATC |
| 4877 | CTRL00029 | NA | NA | NA | NA | GTCGAAGTACTCGTTAAATG |
| 4878 | CTRL00030 | NA | NA | NA | NA | GCGCCCTCACCGTCGTGATT |

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|---|---|---|---|---|---|---|
| 4879 | CTRL00031 | NA | NA | NA | NA | GACATTGTTAGTAACGACTC |
| 4880 | CTRL00032 | NA | NA | NA | NA | GCCAATCGGATTGTAGAAAT |
| 4881 | CTRL00033 | NA | NA | NA | NA | GCTCCGACCGTTGATGCAGC |
| 4882 | CTRL00034 | NA | NA | NA | NA | GTTTGTTAACTAGATACGGG |
| 4883 | CTRL00035 | NA | NA | NA | NA | GAAGGCGGAGAATCCGGGCA |
| 4884 | CTRL00036 | NA | NA | NA | NA | GTATTTACTCGGTGTCGTCA |
| 4885 | CTRL00037 | NA | NA | NA | NA | GATGCGAAACCTAACGCCGC |
| 4886 | CTRL00038 | NA | NA | NA | NA | GTCGGAGGTAGCCGCCTGTT |
| 4887 | CTRL00039 | NA | NA | NA | NA | GTTTACGCCTTCACTTGACC |
| 4888 | CTRL00040 | NA | NA | NA | NA | GGTCGATTCAAGCGGTCGTT |
| 4889 | CTRL00041 | NA | NA | NA | NA | GTCAATCGGCGTTCGACACA |
| 4890 | CTRL00042 | NA | NA | NA | NA | GTGGGATCTCATTCGGAGGA |
| 4891 | CTRL00043 | NA | NA | NA | NA | GCCGGGACCAAAGGCACTGC |
| 4892 | CTRL00044 | NA | NA | NA | NA | GAGATGTACACTTTGCCAAC |
| 4893 | CTRL00045 | NA | NA | NA | NA | GCACGTGTAGTCGATCTGAT |
| 4894 | CTRL00046 | NA | NA | NA | NA | GGTGAGCTCCGACCCGTGGA |
| 4895 | CTRL00047 | NA | NA | NA | NA | GTGACGCCGGTCCATGCGAT |
| 4896 | CTRL00048 | NA | NA | NA | NA | GCAACGCGGTGGCGTAACGT |
| 4897 | CTRL00049 | NA | NA | NA | NA | GGAATAAGGTTCTCGCGAGA |
| 4898 | CTRL00050 | NA | NA | NA | NA | GTGCGAGCCCAACAGTAAGT |
| 4899 | CTRL00051 | NA | NA | NA | NA | GAGTAACTCTCTGACCCGCC |
| 4900 | CTRL00052 | NA | NA | NA | NA | GCATAACGCTAGTGTAACGA |
| 4901 | CTRL00053 | NA | NA | NA | NA | GCTGGATATTACTACGTCGG |
| 4902 | CTRL00054 | NA | NA | NA | NA | GGCACGCTCGGGAACCTCTG |
| 4903 | CTRL00055 | NA | NA | NA | NA | GCTCGTTCGCAGTTGATCGC |
| 4904 | CTRL00056 | NA | NA | NA | NA | GTATACAACATCGACGTGGG |
| 4905 | CTRL00057 | NA | NA | NA | NA | GCGCGACCCTCCACTGGCTC |
| 4906 | CTRL00058 | NA | NA | NA | NA | GTAATAGCTTGCGGTGAGGA |
| 4907 | CTRL00059 | NA | NA | NA | NA | GGTCCGCACTTTATCAACAG |
| 4908 | CTRL00060 | NA | NA | NA | NA | GCAGATTCGACGTGCCCGTG |
| 4909 | CTRL00061 | NA | NA | NA | NA | GTGGTAGCCACCTGGTGCGC |
| 4910 | CTRL00062 | NA | NA | NA | NA | GCCATCTAGGCCTGTGTTGC |
| 4911 | CTRL00063 | NA | NA | NA | NA | GCGCCGAGCGTAACAATGTT |
| 4912 | CTRL00064 | NA | NA | NA | NA | GATTTGTATGAGCTCAACTC |
| 4913 | CTRL00065 | NA | NA | NA | NA | GACGGTGCCACACTTACCAG |
| 4914 | CTRL00066 | NA | NA | NA | NA | GGCTATAATACGGTATCGTA |
| 4915 | CTRL00067 | NA | NA | NA | NA | GTAATCGAGTCGCCTCTGCA |
| 4916 | CTRL00068 | NA | NA | NA | NA | GTTTCTCGCACCACCTCAAG |
| 4917 | CTRL00069 | NA | NA | NA | NA | GTGTTCGTACCCGCCACATG |
| 4918 | CTRL00070 | NA | NA | NA | NA | GTTTCCCAGTGGGTTTACGA |
| 4919 | CTRL00071 | NA | NA | NA | NA | GAATTGAGACTAGAACGTAG |
| 4920 | CTRL00072 | NA | NA | NA | NA | GACTACGAGATATACGATCG |
| 4921 | CTRL00073 | NA | NA | NA | NA | GTCGGCCAGCCAAGACGGTT |
| 4922 | CTRL00074 | NA | NA | NA | NA | GCTGCCAAGACTTCACGGAA |
| 4923 | CTRL00075 | NA | NA | NA | NA | GTAACGTCTACTAACGGATC |
| 4924 | CTRL00076 | NA | NA | NA | NA | GCGCTAGGTCCCTGGTAAGG |
| 4925 | CTRL00077 | NA | NA | NA | NA | GCGTGCCCGAACCACGGTTC |
| 4926 | CTRL00078 | NA | NA | NA | NA | GCTTACCTGTTATCGACTCT |
| 4927 | CTRL00079 | NA | NA | NA | NA | GTACTATTTACGCCCGGTAT |
| 4928 | CTRL00080 | NA | NA | NA | NA | GCGCATCAATATGCCCGCAC |
| 4929 | CTRL00081 | NA | NA | NA | NA | GTAGCATCGCGCTCGTACGC |
| 4930 | CTRL00082 | NA | NA | NA | NA | GAGCCGCTTTCATGATCGAG |
| 4931 | CTRL00083 | NA | NA | NA | NA | GCGGAATTACTCTAAACTTC |
| 4932 | CTRL00084 | NA | NA | NA | NA | GGTTGCAATCGCCTAAGACG |
| 4933 | CTRL00085 | NA | NA | NA | NA | GATCGTGGTTAACTCCGACC |
| 4934 | CTRL00086 | NA | NA | NA | NA | GTGGTAGAATCCTCAATCGA |
| 4935 | CTRL00087 | NA | NA | NA | NA | GAGGTCCCGCCTCCGCCCAA |
| 4936 | CTRL00088 | NA | NA | NA | NA | GCGCCATGTCGCAATACCAG |
| 4937 | CTRL00089 | NA | NA | NA | NA | GGGACCGAAGACTATTGATC |
| 4938 | CTRL00090 | NA | NA | NA | NA | GCCGAAATATCCCGCGAATA |
| 4939 | CTRL00091 | NA | NA | NA | NA | GTAAGCCGAAATACGCGGTT |

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|---|---|---|---|---|---|---|
| 4940 | CTRL00092 | NA | NA | NA | NA | GGCATTACCCGCCGTCCGGC |
| 4941 | CTRL00093 | NA | NA | NA | NA | GGTTCCACCAGGTAGTCGAC |
| 4942 | CTRL00094 | NA | NA | NA | NA | GCGGACATGACTTCTATCCA |
| 4943 | CTRL00095 | NA | NA | NA | NA | GTCGTCTCACCGTGCGGCGA |
| 4944 | CTRL00096 | NA | NA | NA | NA | GGCTAACGCACGCCGAGGTG |
| 4945 | CTRL00097 | NA | NA | NA | NA | GATTGGCCGGCGACAGCGCT |
| 4946 | CTRL00098 | NA | NA | NA | NA | GCGGTCTCTCTACTGCGACG |
| 4947 | CTRL00099 | NA | NA | NA | NA | GTCCACCACCAAGCTTGTAG |
| 4948 | CTRL00100 | NA | NA | NA | NA | GAACAATGGCTTCGTCGACT |
| 4949 | CTRL00101 | NA | NA | NA | NA | GACCTTATGTTCGCCGCCTC |
| 4950 | CTRL00102 | NA | NA | NA | NA | GAGACACCGTAACTCGAATT |
| 4951 | CTRL00103 | NA | NA | NA | NA | GCTCGTAGGTCAATCGCGGA |
| 4952 | CTRL00104 | NA | NA | NA | NA | GGACGGTTCCGATAACCTTA |
| 4953 | CTRL00105 | NA | NA | NA | NA | GGGATCTCTCAATATGGCGC |
| 4954 | CTRL00106 | NA | NA | NA | NA | GAGCGCCGTTGTTGAGAAGA |
| 4955 | CTRL00107 | NA | NA | NA | NA | GCCGCCGGCCCTAACTGACC |
| 4956 | CTRL00108 | NA | NA | NA | NA | GTGACTAGACCCTTACGCGG |
| 4957 | CTRL00109 | NA | NA | NA | NA | GATCGGAGAGCCTGAAGTTG |
| 4958 | CTRL00110 | NA | NA | NA | NA | GAGAACTCAGCGGTCTCAAG |
| 4959 | CTRL00111 | NA | NA | NA | NA | GATGTCCGTTGTAGTCCTCG |
| 4960 | CTRL00112 | NA | NA | NA | NA | GCCGGTCGCAATTGTTGCTA |
| 4961 | CTRL00113 | NA | NA | NA | NA | GTGCCTATTCAGTAGGTCGT |
| 4962 | CTRL00114 | NA | NA | NA | NA | GGTGCGGTAAGCGTGGCTAG |
| 4963 | CTRL00115 | NA | NA | NA | NA | GCCATGGAGCCCAATCAATC |
| 4964 | CTRL00116 | NA | NA | NA | NA | GGTGTAGTTCGGATTGATGA |
| 4965 | CTRL00117 | NA | NA | NA | NA | GGGAATTGGAGACGATGCCG |
| 4966 | CTRL00118 | NA | NA | NA | NA | GAGTGCCTCGTAGTTGTGGG |
| 4967 | CTRL00119 | NA | NA | NA | NA | GCCTCGTTTCCACGTAATTC |
| 4968 | CTRL00120 | NA | NA | NA | NA | GATTAGGTCGTTCTGTAACA |
| 4969 | CTRL00121 | NA | NA | NA | NA | GCCGGTAGTGACCACGAACA |
| 4970 | CTRL00122 | NA | NA | NA | NA | GTCTTCGCGAAAGCGTATTC |
| 4971 | CTRL00123 | NA | NA | NA | NA | GGCCACACACGCGGCTTTAC |
| 4972 | CTRL00124 | NA | NA | NA | NA | GGGCCTCATTAGTCGTCTGG |
| 4973 | CTRL00125 | NA | NA | NA | NA | GAAGCCGCGAATGGCTAACT |
| 4974 | CTRL00126 | NA | NA | NA | NA | GATATGCTAGACGTGACTCA |
| 4975 | CTRL00127 | NA | NA | NA | NA | GTTAGCAATCGTACGGGTCA |
| 4976 | CTRL00128 | NA | NA | NA | NA | GTCTCTTCGGATTCTTGGCA |
| 4977 | CTRL00129 | NA | NA | NA | NA | GCGGGTCTGGAAAGGCGTAT |
| 4978 | CTRL00130 | NA | NA | NA | NA | GCTCCGTAGTTCGGGACGCT |
| 4979 | CTRL00131 | NA | NA | NA | NA | GACTCCGGCAAGCCAGCTCT |
| 4980 | CTRL00132 | NA | NA | NA | NA | GCCCGCTCTAGCCTATAAGA |
| 4981 | CTRL00133 | NA | NA | NA | NA | GGAAGATTCCCACTCATCCG |
| 4982 | CTRL00134 | NA | NA | NA | NA | GTACGGATGCTGAACTCTAG |
| 4983 | CTRL00135 | NA | NA | NA | NA | GAACCTACGGGCTACGATAC |
| 4984 | CTRL00136 | NA | NA | NA | NA | GCGTGTGAAGGGCGATATAC |
| 4985 | CTRL00137 | NA | NA | NA | NA | GCTAGGCGCGGGAGTCCGCT |
| 4986 | CTRL00138 | NA | NA | NA | NA | GGACCCAGCTGCAGTAACGA |
| 4987 | CTRL00139 | NA | NA | NA | NA | GATTGGTTACCTTGCGTCTC |
| 4988 | CTRL00140 | NA | NA | NA | NA | GGGTTCTGCCGCTTATAATA |
| 4989 | CTRL00141 | NA | NA | NA | NA | GGCAATTCAGTGCTATATCG |
| 4990 | CTRL00142 | NA | NA | NA | NA | GGCGTCGGATCGATGGTTCT |
| 4991 | CTRL00143 | NA | NA | NA | NA | GTTCGATCCGGCGACTCGAA |
| 4992 | CTRL00144 | NA | NA | NA | NA | GTCGGTACATGTATAGACGA |
| 4993 | CTRL00145 | NA | NA | NA | NA | GCGCCACGACGTCCGGCATG |
| 4994 | CTRL00146 | NA | NA | NA | NA | GGCCTGCCCGCTCGGCATAT |
| 4995 | CTRL00147 | NA | NA | NA | NA | GTATGCTCTATGGGATAAAC |
| 4996 | CTRL00148 | NA | NA | NA | NA | GGGTCCTGCCCGTATCACCG |
| 4997 | CTRL00149 | NA | NA | NA | NA | GAAGGCCAAGGAGGATGATC |
| 4998 | CTRL00150 | NA | NA | NA | NA | GACGAGACCTTGCGATATAG |
| 4999 | CTRL00151 | NA | NA | NA | NA | GACCACGCCCGTAATGTGCC |
| 5000 | CTRL00152 | NA | NA | NA | NA | GCGAATCCCATAACGCCACA |

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|---|---|---|---|---|---|---|
| 5001 | CTRL00153 | NA | NA | NA | NA | GATGACGCATCGAGGAGAAG |
| 5002 | CTRL00154 | NA | NA | NA | NA | GTACTGGCGTTCAACCTAAC |
| 5003 | CTRL00155 | NA | NA | NA | NA | GGAAGTCAAGTCCGCACCGC |
| 5004 | CTRL00156 | NA | NA | NA | NA | GCTCGCCTTAACTTGATGGT |
| 5005 | CTRL00157 | NA | NA | NA | NA | GAGTCGCCACTCTCAGGTAG |
| 5006 | CTRL00158 | NA | NA | NA | NA | GCGTTTCACACGATCGGAGA |
| 5007 | CTRL00159 | NA | NA | NA | NA | GGGCCGCGCAGGATAAACAA |
| 5008 | CTRL00160 | NA | NA | NA | NA | GCAACTCGAGCTTGCGCGGA |
| 5009 | CTRL00161 | NA | NA | NA | NA | GAGGTTATGTCCCGCACCCG |
| 5010 | CTRL00162 | NA | NA | NA | NA | GTACGCTGCGACACCCGGTG |
| 5011 | CTRL00163 | NA | NA | NA | NA | GCTCGGCCTATGCCTATGCC |
| 5012 | CTRL00164 | NA | NA | NA | NA | GCACCGAATTACGCCAACTC |
| 5013 | CTRL00165 | NA | NA | NA | NA | GAGCAGACGAGTCGAGACAT |
| 5014 | CTRL00166 | NA | NA | NA | NA | GTCCCAGGCATTACCATCGG |
| 5015 | CTRL00167 | NA | NA | NA | NA | GAGTCTATCGTCGAGTGAGA |
| 5016 | CTRL00168 | NA | NA | NA | NA | GGGTGTGGTCACGCCTTGCA |
| 5017 | CTRL00169 | NA | NA | NA | NA | GCGATACACTACCGTCTCCG |
| 5018 | CTRL00170 | NA | NA | NA | NA | GGTCAAACGGTATGGAGGCG |
| 5019 | CTRL00171 | NA | NA | NA | NA | GGGTTGGCACGTCCAACGAC |
| 5020 | CTRL00172 | NA | NA | NA | NA | GATTGTCGTTTACGATCCCA |
| 5021 | CTRL00173 | NA | NA | NA | NA | GTGCTCGGATCAAATCATCA |
| 5022 | CTRL00174 | NA | NA | NA | NA | GTTCGAAACCCAAAGGCGTG |
| 5023 | CTRL00175 | NA | NA | NA | NA | GACCATACGAGTAACTGCAA |
| 5024 | CTRL00176 | NA | NA | NA | NA | GCTCGCGCGCGCTAAAGACT |
| 5025 | CTRL00177 | NA | NA | NA | NA | GAGTGGATGCGTAATACAAC |
| 5026 | CTRL00178 | NA | NA | NA | NA | GCATACCCACTTATCACCGC |
| 5027 | CTRL00179 | NA | NA | NA | NA | GGAGGTCGCTACAAACGGTA |
| 5028 | CTRL00180 | NA | NA | NA | NA | GGGCGCCTAGCGTTTGGACG |
| 5029 | CTRL00181 | NA | NA | NA | NA | GGCTGACGGTATGATCAACT |
| 5030 | CTRL00182 | NA | NA | NA | NA | GGAGCAATCCGAATCGCTTC |
| 5031 | CTRL00183 | NA | NA | NA | NA | GATGTACGTGCCCACCGGCA |
| 5032 | CTRL00184 | NA | NA | NA | NA | GCATTCCTTGCTTCGTGCAG |
| 5033 | CTRL00185 | NA | NA | NA | NA | GGGCGGTCCAAACCTGAACG |
| 5034 | CTRL00186 | NA | NA | NA | NA | GCCCTACGTTGGAAACCAGT |
| 5035 | CTRL00187 | NA | NA | NA | NA | GCTTAAACCCGTATACTATG |
| 5036 | CTRL00188 | NA | NA | NA | NA | GAGTCCGGTTGCCCGTCGTA |
| 5037 | CTRL00189 | NA | NA | NA | NA | GTACAGAACGGGTCGGTAGC |
| 5038 | CTRL00190 | NA | NA | NA | NA | GATTGTGGTCTCATCGGGCG |
| 5039 | CTRL00191 | NA | NA | NA | NA | GAATAATACGGGCCGTTGGA |
| 5040 | CTRL00192 | NA | NA | NA | NA | GTTGATGTCGAACCCGGAGA |
| 5041 | CTRL00193 | NA | NA | NA | NA | GTCAGCCCGGGTATCTCGTA |
| 5042 | CTRL00194 | NA | NA | NA | NA | GTCGGTTTGAGCGTACAAAT |
| 5043 | CTRL00195 | NA | NA | NA | NA | GGAGGGCTTATTCGCGCCAC |
| 5044 | CTRL00196 | NA | NA | NA | NA | GGGCCTTAATAGTTCAACGC |
| 5045 | CTRL00197 | NA | NA | NA | NA | GGATTCTTAGACAGTTGGGC |
| 5046 | CTRL00198 | NA | NA | NA | NA | GTCGTGGCATAGAGCGACCC |
| 5047 | CTRL00199 | NA | NA | NA | NA | GTTTACGATTGTCGTTCATC |
| 5048 | CTRL00200 | NA | NA | NA | NA | GCACCATTGTTGAACGCTCG |
| 5049 | CTRL00201 | NA | NA | NA | NA | GTCTAACCGAACAATACGAC |
| 5050 | CTRL00202 | NA | NA | NA | NA | GAGACCGTTAGCCTGAGATA |
| 5051 | CTRL00203 | NA | NA | NA | NA | GACGTACGATACACGGTTAG |
| 5052 | CTRL00204 | NA | NA | NA | NA | GTCTCGACGAAACGTGCTGT |
| 5053 | CTRL00205 | NA | NA | NA | NA | GACGTATCACCATAGAAGCG |
| 5054 | CTRL00206 | NA | NA | NA | NA | GACTAGATGGGCGTTCTATC |
| 5055 | CTRL00207 | NA | NA | NA | NA | GCGGGATCTATCTCATCCAA |
| 5056 | CTRL00208 | NA | NA | NA | NA | GCTTGCCGGGTCTATTAATG |
| 5057 | CTRL00209 | NA | NA | NA | NA | GACGTTGAGGTCCACTAGCT |
| 5058 | CTRL00210 | NA | NA | NA | NA | GCTTCGAGGCGTATATGATT |
| 5059 | CTRL00211 | NA | NA | NA | NA | GCTTTCGGCGCCGGTGGCCA |
| 5060 | CTRL00212 | NA | NA | NA | NA | GCCACGTTGGTCACTCGGCG |
| 5061 | CTRL00213 | NA | NA | NA | NA | GCGCCACGGCTGCACTATCC |

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|---|---|---|---|---|---|---|
| 5062 | CTRL00214 | NA | NA | NA | NA | GTATTGGTATCTCAGCAGGC |
| 5063 | CTRL00215 | NA | NA | NA | NA | GGTTTCCGCGGGCCCAGAGG |
| 5064 | CTRL00216 | NA | NA | NA | NA | GTGTGATCCGACACCTTTCC |
| 5065 | CTRL00217 | NA | NA | NA | NA | GAACGGTGAGGCGTTAACAA |
| 5066 | CTRL00218 | NA | NA | NA | NA | GCGAGCCAGCATCCCTTCGC |
| 5067 | CTRL00219 | NA | NA | NA | NA | GATTGACGCGCTCTATACGA |
| 5068 | CTRL00220 | NA | NA | NA | NA | GTAGAAGTCCTCCGTCAAAC |
| 5069 | CTRL00221 | NA | NA | NA | NA | GTTCGGCTCGAGATGAGTAC |
| 5070 | CTRL00222 | NA | NA | NA | NA | GTTATATCGGGATACTTGAC |
| 5071 | CTRL00223 | NA | NA | NA | NA | GCGCTCACCATTCGTTGCTA |
| 5072 | CTRL00224 | NA | NA | NA | NA | GGGATTCCGCCGGTGTTTGT |
| 5073 | CTRL00225 | NA | NA | NA | NA | GGTCTTTCACGTCCCGCGTA |
| 5074 | CTRL00226 | NA | NA | NA | NA | GAGGGTCGTGGGTGTTGCGT |
| 5075 | CTRL00227 | NA | NA | NA | NA | GGCATGGCAGTATCCCATAG |
| 5076 | CTRL00228 | NA | NA | NA | NA | GCGGTAGGGCGGTATAACCT |
| 5077 | CTRL00229 | NA | NA | NA | NA | GTTTGCCTTACGCTGGAAAT |
| 5078 | CTRL00230 | NA | NA | NA | NA | GAAGGAGGCGGCGGTAGTGG |
| 5079 | CTRL00231 | NA | NA | NA | NA | GGTTCTAAGAACAACTCGAC |
| 5080 | CTRL00232 | NA | NA | NA | NA | GAGGCACTTGCCGACCTTAC |
| 5081 | CTRL00233 | NA | NA | NA | NA | GCGCCGCGTGTATCCTATGC |
| 5082 | CTRL00234 | NA | NA | NA | NA | GACAGACCTCGTAGGGAGCC |
| 5083 | CTRL00235 | NA | NA | NA | NA | GCGGACGGGTGCAATTAGGT |
| 5084 | CTRL00236 | NA | NA | NA | NA | GAGCGAGGTCTTCGATGAAT |
| 5085 | CTRL00237 | NA | NA | NA | NA | GTAGCCGTCACCTTCTGACA |
| 5086 | CTRL00238 | NA | NA | NA | NA | GATGTCACGCGATGACTCGT |
| 5087 | CTRL00239 | NA | NA | NA | NA | GCCGCTATCTCTATTACGAC |
| 5088 | CTRL00240 | NA | NA | NA | NA | GATGTAACAACGCACAGCGA |
| 5089 | CTRL00241 | NA | NA | NA | NA | GAGGCTTTATCTCTAGACGC |
| 5090 | CTRL00242 | NA | NA | NA | NA | GTTCTCTCGCCAACCGGTAT |
| 5091 | CTRL00243 | NA | NA | NA | NA | GGGTCAAGTCAGAGGCGTCG |
| 5092 | CTRL00244 | NA | NA | NA | NA | GACACCCACTGAGCGCCGCG |
| 5093 | CTRL00245 | NA | NA | NA | NA | GGACATTCGCGGCATGGCAC |
| 5094 | CTRL00246 | NA | NA | NA | NA | GCATAGCAACGTTGTGACCG |
| 5095 | CTRL00247 | NA | NA | NA | NA | GGACGCGTAACGGTCTTATT |
| 5096 | CTRL00248 | NA | NA | NA | NA | GAGCAATGCGCCGCAACCAT |
| 5097 | CTRL00249 | NA | NA | NA | NA | GCGTTCGTTCAACCACTATC |
| 5098 | CTRL00250 | NA | NA | NA | NA | GTACAGGTGAGTAACCGACG |
| 5099 | CTRL00251 | NA | NA | NA | NA | GCTTAAAGAGATACCGTATC |
| 5100 | CTRL00252 | NA | NA | NA | NA | GCCGACCTCGGCTGTTCGCC |
| 5101 | CTRL00253 | NA | NA | NA | NA | GCGGGTTCTATAGACCTCTT |
| 5102 | CTRL00254 | NA | NA | NA | NA | GCACGGTTTCGCTAATGCTA |
| 5103 | CTRL00255 | NA | NA | NA | NA | GATTGCGTTGGTTTACTAGG |
| 5104 | CTRL00256 | NA | NA | NA | NA | GCGAATCGACGGTTGATAAT |
| 5105 | CTRL00257 | NA | NA | NA | NA | GGTTAGGTAGTATTTATCCG |
| 5106 | CTRL00258 | NA | NA | NA | NA | GAGCGGTTATCGGCAAACAC |
| 5107 | CTRL00259 | NA | NA | NA | NA | GGTACTGCACTATTCCCGTG |
| 5108 | CTRL00260 | NA | NA | NA | NA | GCCGTACTACACGGCTTTCA |
| 5109 | CTRL00261 | NA | NA | NA | NA | GCTAGGCGACGAAAGCATGA |
| 5110 | CTRL00262 | NA | NA | NA | NA | GGCGATACCTCCCTATGAGC |
| 5111 | CTRL00263 | NA | NA | NA | NA | GAGATTGGGCGTTTACTCGG |
| 5112 | CTRL00264 | NA | NA | NA | NA | GACATAGCAAACTGACGAGC |
| 5113 | CTRL00265 | NA | NA | NA | NA | GCGAGTAGGTCCAGCTGGAT |
| 5114 | CTRL00266 | NA | NA | NA | NA | GTTCTTTAGGCAGGCGTGGT |
| 5115 | CTRL00267 | NA | NA | NA | NA | GAACGATCGACCTTTGCGTA |
| 5116 | CTRL00268 | NA | NA | NA | NA | GCGACCTTATGAATACGCGA |
| 5117 | CTRL00269 | NA | NA | NA | NA | GGTGTTGCTAGTACTTAGGC |
| 5118 | CTRL00270 | NA | NA | NA | NA | GAATGAGTCACTGCCGCGTG |
| 5119 | CTRL00271 | NA | NA | NA | NA | GCTATTTCGGAATCGTCAGG |
| 5120 | CTRL00272 | NA | NA | NA | NA | GATTCTTCCGCCGCTTCGTA |
| 5121 | CTRL00273 | NA | NA | NA | NA | GGTTCCGGGACCGTAACGCT |
| 5122 | CTRL00274 | NA | NA | NA | NA | GGCCACCTATGACAAACTCA |

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|---|---|---|---|---|---|---|
| 5123 | CTRL00275 | NA | NA | NA | NA | GCAGGACGATAGTAACGTCC |
| 5124 | CTRL00276 | NA | NA | NA | NA | GCTGACTCGCGCGTCGTGCT |
| 5125 | CTRL00277 | NA | NA | NA | NA | GGGCACCATGCGGAAGATCG |
| 5126 | CTRL00278 | NA | NA | NA | NA | GGCCGGATGCGAAGCTCGTT |
| 5127 | CTRL00279 | NA | NA | NA | NA | GGCATTAACGTACTGGCCGA |
| 5128 | CTRL00280 | NA | NA | NA | NA | GCGTCGGATCATTTCATACC |
| 5129 | CTRL00281 | NA | NA | NA | NA | GCCGGTTCACTCATAAGTGA |
| 5130 | CTRL00282 | NA | NA | NA | NA | GAACACACCAAAGCGCCGCT |
| 5131 | CTRL00283 | NA | NA | NA | NA | GAGTTCCTACCGGCCCGACA |
| 5132 | CTRL00284 | NA | NA | NA | NA | GTCGAAGCGAGCAAGGTCAC |
| 5133 | CTRL00285 | NA | NA | NA | NA | GACTGGCCGAAGCTTTAGCG |
| 5134 | CTRL00286 | NA | NA | NA | NA | GGGTGTACCAAATAGTGATC |
| 5135 | CTRL00287 | NA | NA | NA | NA | GGATACGAATGACTTCGGAC |
| 5136 | CTRL00288 | NA | NA | NA | NA | GCATTTGTTCCAAATACGTC |
| 5137 | CTRL00289 | NA | NA | NA | NA | GGTACGAAGAACCCTATCTC |
| 5138 | CTRL00290 | NA | NA | NA | NA | GCCTCGTCTGAGGTTAATGG |
| 5139 | CTRL00291 | NA | NA | NA | NA | GCAGCCAGCGGTTGAACGCT |
| 5140 | CTRL00292 | NA | NA | NA | NA | GACGGCACGCCGCACTTGCA |
| 5141 | CTRL00293 | NA | NA | NA | NA | GGCCGTTTCGATTGTGCAAG |
| 5142 | CTRL00294 | NA | NA | NA | NA | GGTATGCCAACCGAACCGTA |
| 5143 | CTRL00295 | NA | NA | NA | NA | GCGACAATGAATGTCGACAT |
| 5144 | CTRL00296 | NA | NA | NA | NA | GTGTAATCCAAAGACGTCAG |
| 5145 | CTRL00297 | NA | NA | NA | NA | GAAGATTTACGACACTTCGT |
| 5146 | CTRL00298 | NA | NA | NA | NA | GGATCATGTCTTACTATCGG |
| 5147 | CTRL00299 | NA | NA | NA | NA | GGTAGGGTGTTGTCGGGTAT |
| 5148 | CTRL00300 | NA | NA | NA | NA | GAATCATACGTGTCGAAATG |
| 5149 | CTRL00301 | NA | NA | NA | NA | GGCCGTAATACAGGTATGTA |
| 5150 | CTRL00302 | NA | NA | NA | NA | GCGAATTGTCCCATTTCCGT |
| 5151 | CTRL00303 | NA | NA | NA | NA | GGACGATCTGTCAAGAATAT |
| 5152 | CTRL00304 | NA | NA | NA | NA | GCCGCGGTTCAGTAACGCTA |
| 5153 | CTRL00305 | NA | NA | NA | NA | GTATAATTCGTGAGCGGGTG |
| 5154 | CTRL00306 | NA | NA | NA | NA | GATTCTGTAGAACAGACCGT |
| 5155 | CTRL00307 | NA | NA | NA | NA | GCAGCGTTGATTGAACGAAA |
| 5156 | CTRL00308 | NA | NA | NA | NA | GCAGACTTCTATACTTGTCG |
| 5157 | CTRL00309 | NA | NA | NA | NA | GGTGCGCTGATTCATACGTG |
| 5158 | CTRL00310 | NA | NA | NA | NA | GACTACCAGAGCGACCCGTC |
| 5159 | CTRL00311 | NA | NA | NA | NA | GGAATCCATCGGGCGAATAC |
| 5160 | CTRL00312 | NA | NA | NA | NA | GGCCTAGACGAGTCGCGTTG |
| 5161 | CTRL00313 | NA | NA | NA | NA | GATATGGTAGCGGCGATCAA |
| 5162 | CTRL00314 | NA | NA | NA | NA | GACACGCCCGCGGTAGGTGC |
| 5163 | CTRL00315 | NA | NA | NA | NA | GAATAGTGGTTCGCGATCGC |
| 5164 | CTRL00316 | NA | NA | NA | NA | GTTACGGGATAACCCGCCCG |
| 5165 | CTRL00317 | NA | NA | NA | NA | GCTAACACGCCTACTAATGC |
| 5166 | CTRL00318 | NA | NA | NA | NA | GGATTCCGCCCTAGGTGGTA |
| 5167 | CTRL00319 | NA | NA | NA | NA | GACGTTGCGCCTGCCCGCAT |
| 5168 | CTRL00320 | NA | NA | NA | NA | GAGAACGTGATAAGACTCGG |
| 5169 | CTRL00321 | NA | NA | NA | NA | GTATCAAACACGTCCGCGCA |
| 5170 | CTRL00322 | NA | NA | NA | NA | GAAGCGCATTTAGCCGAAGA |
| 5171 | CTRL00323 | NA | NA | NA | NA | GATGAGGTCCCTATAGAGCG |
| 5172 | CTRL00324 | NA | NA | NA | NA | GCCACAGGAGCATATTCCGA |
| 5173 | CTRL00325 | NA | NA | NA | NA | GTACCGTACCTCTTGCGGTG |
| 5174 | CTRL00326 | NA | NA | NA | NA | GCCGGTCCGCCGGCGAACTT |
| 5175 | CTRL00327 | NA | NA | NA | NA | GAAACCGCGTCTAAATCCGA |
| 5176 | CTRL00328 | NA | NA | NA | NA | GACCTGTCCGTGACGATAGG |
| 5177 | CTRL00329 | NA | NA | NA | NA | GAGTGGCTCCTTTGTCGCGT |
| 5178 | CTRL00330 | NA | NA | NA | NA | GGTTAGTATATTCCGGTGCT |
| 5179 | CTRL00331 | NA | NA | NA | NA | GCGCAACCGTGGATAGGGTT |
| 5180 | CTRL00332 | NA | NA | NA | NA | GAGTACGTGTCCATATCAAT |
| 5181 | CTRL00333 | NA | NA | NA | NA | GTTAGAGCTATCGCTCGCGG |
| 5182 | CTRL00334 | NA | NA | NA | NA | GCGTATTTGGTGAATGTGGA |
| 5183 | CTRL00335 | NA | NA | NA | NA | GGGATCGCTCCCTTTATCGA |

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|---|---|---|---|---|---|---|
| 5184 | CTRL00336 | NA | NA | NA | NA | GAATACTACGGGCACGGACA |
| 5185 | CTRL00337 | NA | NA | NA | NA | GATTCCGCACCGTGGATCCA |
| 5186 | CTRL00338 | NA | NA | NA | NA | GCCTCAGGTCTTTCTATCCG |
| 5187 | CTRL00339 | NA | NA | NA | NA | GGACCAAACATGGGCTTGCG |
| 5188 | CTRL00340 | NA | NA | NA | NA | GGCACCGAGTGTTCGACGCA |
| 5189 | CTRL00341 | NA | NA | NA | NA | GCTAAGGGACGGGCGCATGG |
| 5190 | CTRL00342 | NA | NA | NA | NA | GTCAGCTAAATCACTACGAG |
| 5191 | CTRL00343 | NA | NA | NA | NA | GGCGGCCGCTAGTATGGCAT |
| 5192 | CTRL00344 | NA | NA | NA | NA | GCTCGAGCGACGTGGTAGGT |
| 5193 | CTRL00345 | NA | NA | NA | NA | GCACGTATGTAACACTACGA |
| 5194 | CTRL00346 | NA | NA | NA | NA | GGTTTCAGAGGACGCAAAGT |
| 5195 | CTRL00347 | NA | NA | NA | NA | GGGCTTCTGGCGATCTAGCA |
| 5196 | CTRL00348 | NA | NA | NA | NA | GGATAGCGGGCCTGATATCT |
| 5197 | CTRL00349 | NA | NA | NA | NA | GCCCATAATGTTGAACGCAC |
| 5198 | CTRL00350 | NA | NA | NA | NA | GTCCAAGCTTCGTGTGGTAA |
| 5199 | CTRL00351 | NA | NA | NA | NA | GTAGACCTCTTCGCCTGCAA |
| 5200 | CTRL00352 | NA | NA | NA | NA | GGATCCATACGACGTAGCGC |
| 5201 | CTRL00353 | NA | NA | NA | NA | GCTGCGTAGTACAATAGCGT |
| 5202 | CTRL00354 | NA | NA | NA | NA | GGCTAACACTAGCGAGTGAG |
| 5203 | CTRL00355 | NA | NA | NA | NA | GCGACGCGCGTTGTTCTAGC |
| 5204 | CTRL00356 | NA | NA | NA | NA | GCTACTCTGGCTCACGTTAG |
| 5205 | CTRL00357 | NA | NA | NA | NA | GACAACAACGAGAGCTCGTG |
| 5206 | CTRL00358 | NA | NA | NA | NA | GGCGCCTGAAGTGTCTACGT |
| 5207 | CTRL00359 | NA | NA | NA | NA | GTTTCGAGGCTATGGGAGTT |
| 5208 | CTRL00360 | NA | NA | NA | NA | GATTGCCCTAGGTACTCGTG |
| 5209 | CTRL00361 | NA | NA | NA | NA | GGGCGCCAGTACACGACTTC |
| 5210 | CTRL00362 | NA | NA | NA | NA | GACTTGTGTGTAATTCGCCC |
| 5211 | CTRL00363 | NA | NA | NA | NA | GCTAGCACGCCGCCGGTTTC |
| 5212 | CTRL00364 | NA | NA | NA | NA | GGCTAGACCACGCGCGATTG |
| 5213 | CTRL00365 | NA | NA | NA | NA | GATATCTTTGCAGCTAGCTC |
| 5214 | CTRL00366 | NA | NA | NA | NA | GTAGGCCCGAAAGGCTTAAT |
| 5215 | CTRL00367 | NA | NA | NA | NA | GTTAAATCGCGCGGCGCTCC |
| 5216 | CTRL00368 | NA | NA | NA | NA | GTCAGGCGACGCTCGACATA |
| 5217 | CTRL00369 | NA | NA | NA | NA | GGCTGTGGACCACATCGTGA |
| 5218 | CTRL00370 | NA | NA | NA | NA | GCTCGGAAGCGTGAAGGGCT |
| 5219 | CTRL00371 | NA | NA | NA | NA | GCCCACGTGCTTCCTGCCGG |
| 5220 | CTRL00372 | NA | NA | NA | NA | GATTACCCAGTAGCAAACGC |
| 5221 | CTRL00373 | NA | NA | NA | NA | GATCTTCGCCGAGCTCGCTT |
| 5222 | CTRL00374 | NA | NA | NA | NA | GTTGCCACATCCCACCAACG |
| 5223 | CTRL00375 | NA | NA | NA | NA | GCGACCACTCTACGATATCA |
| 5224 | CTRL00376 | NA | NA | NA | NA | GATCCATGTGAAACCGCTAC |
| 5225 | CTRL00377 | NA | NA | NA | NA | GTATAGCGTAACCCGACCGG |
| 5226 | CTRL00378 | NA | NA | NA | NA | GCGTATCAGGCGGTCGTAGG |
| 5227 | CTRL00379 | NA | NA | NA | NA | GCGCGAGCACTACCAGAAAC |
| 5228 | CTRL00380 | NA | NA | NA | NA | GACGTGGGAGCATCGGCAGT |
| 5229 | CTRL00381 | NA | NA | NA | NA | GTCTTATGGTGACGATCAAA |
| 5230 | CTRL00382 | NA | NA | NA | NA | GACACTGTAAACCAACGACA |
| 5231 | CTRL00383 | NA | NA | NA | NA | GCGACTGAACTGGCTTCGTG |
| 5232 | CTRL00384 | NA | NA | NA | NA | GCAATGACTCTGCGGATTCT |
| 5233 | CTRL00385 | NA | NA | NA | NA | GATAGTTAAGGCCGACGTAC |
| 5234 | CTRL00386 | NA | NA | NA | NA | GTCAGAGGCACGGATCCGTA |
| 5235 | CTRL00387 | NA | NA | NA | NA | GTCGTCGTTGCCAGTTGGTG |
| 5236 | CTRL00388 | NA | NA | NA | NA | GCCACTTATAGCCACTCAAT |
| 5237 | CTRL00389 | NA | NA | NA | NA | GCTTTCGACTGGTTAGGTGT |
| 5238 | CTRL00390 | NA | NA | NA | NA | GGGTAGGAACTGAGAAGCGT |
| 5239 | CTRL00391 | NA | NA | NA | NA | GACCTGTCAGGTAGAACGAT |
| 5240 | CTRL00392 | NA | NA | NA | NA | GTGTATAGTTTCGAATAGCG |
| 5241 | CTRL00393 | NA | NA | NA | NA | GGTAGAAAGAACGATTATGG |
| 5242 | CTRL00394 | NA | NA | NA | NA | GCTTAGCCGGCGCGTTTATC |
| 5243 | CTRL00395 | NA | NA | NA | NA | GAACTATAGCGGCTTAGAAT |
| 5244 | CTRL00396 | NA | NA | NA | NA | GACGTGCGTCTTCATCGAAA |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5245 | CTRL00397 | NA | NA | NA | NA | GCGTACCAACACGTGATGTT |
| 5246 | CTRL00398 | NA | NA | NA | NA | GATAGCGTGTCCACAGATGA |
| 5247 | CTRL00399 | NA | NA | NA | NA | GACACAACTACGTCAGTCCG |
| 5248 | CTRL00400 | NA | NA | NA | NA | GCTAGTTCAGCGACTATCGC |
| 5249 | CTRL00401 | NA | NA | NA | NA | GATCCCTTAACGAATTCTAG |
| 5250 | CTRL00402 | NA | NA | NA | NA | GCCCAGCTGTCAAAGTCGCC |
| 5251 | CTRL00403 | NA | NA | NA | NA | GCGAGCTCACGGGCGAAGGC |
| 5252 | CTRL00404 | NA | NA | NA | NA | GAAATCACTCTACGAGGCTA |
| 5253 | CTRL00405 | NA | NA | NA | NA | GGACTGACGTATACGCTTGC |
| 5254 | CTRL00406 | NA | NA | NA | NA | GTGATACGTCTGTACTTAGG |
| 5255 | CTRL00407 | NA | NA | NA | NA | GCCGAGCACGCGTAAAGCTA |
| 5256 | CTRL00408 | NA | NA | NA | NA | GCGACGCACTTTACGCAAAC |
| 5257 | CTRL00409 | NA | NA | NA | NA | GCACCGAATACAGCGGCTGT |
| 5258 | CTRL00410 | NA | NA | NA | NA | GCACTAATCTTGGTACACCT |
| 5259 | CTRL00411 | NA | NA | NA | NA | GGTATCTGGGCAGTGGTACG |
| 5260 | CTRL00412 | NA | NA | NA | NA | GTCTGATTTCAGCCGGTGGT |
| 5261 | CTRL00413 | NA | NA | NA | NA | GGATATTCCCGACGAACCCT |
| 5262 | CTRL00414 | NA | NA | NA | NA | GCTAGAATCACTGTGATCGT |
| 5263 | CTRL00415 | NA | NA | NA | NA | GTTTCGACCGTCCCGTCGCC |
| 5264 | CTRL00416 | NA | NA | NA | NA | GAACCGCAATCCTGGTGTAC |
| 5265 | CTRL00417 | NA | NA | NA | NA | GCCATCCTCGCACAATACGT |
| 5266 | CTRL00418 | NA | NA | NA | NA | GTGTACTGCCGATACACTCC |
| 5267 | CTRL00419 | NA | NA | NA | NA | GGTGGTATCTGGTCGTCGAC |
| 5268 | CTRL00420 | NA | NA | NA | NA | GCGACCTGTTTGCTAGGCGT |
| 5269 | CTRL00421 | NA | NA | NA | NA | GTGATGTCCATCTCAACGAA |
| 5270 | CTRL00422 | NA | NA | NA | NA | GCGCAGCGGCTGCCCAGGAT |
| 5271 | CTRL00423 | NA | NA | NA | NA | GCAGTAGAAACGAGGCGAAC |
| 5272 | CTRL00424 | NA | NA | NA | NA | GTGGTTATTCGGCAGATCCG |
| 5273 | CTRL00425 | NA | NA | NA | NA | GCCGGCGCCAAGCTAGTACA |
| 5274 | CTRL00426 | NA | NA | NA | NA | GTCGGACACTCGGAACCGCC |
| 5275 | CTRL00427 | NA | NA | NA | NA | GAGATAAGCAGCGATACACG |
| 5276 | CTRL00428 | NA | NA | NA | NA | GTCGGGTTCCCATCCCTTCA |
| 5277 | CTRL00429 | NA | NA | NA | NA | GGTTCCCGACGCGAGTGATA |
| 5278 | CTRL00430 | NA | NA | NA | NA | GTAAATCTGCGGGATATTGC |
| 5279 | CTRL00431 | NA | NA | NA | NA | GCGAGGGTGGCCACGTATTT |
| 5280 | CTRL00432 | NA | NA | NA | NA | GCGAACACACCGCTACGGCG |
| 5281 | CTRL00433 | NA | NA | NA | NA | GATCTCGGCTTGTCGCAGCT |
| 5282 | CTRL00434 | NA | NA | NA | NA | GCGTTATGGCTCCGACCGGC |
| 5283 | CTRL00435 | NA | NA | NA | NA | GATATCGCCGAGGACGTGCT |
| 5284 | CTRL00436 | NA | NA | NA | NA | GATGTCTGACGGCACGCGTG |
| 5285 | CTRL00437 | NA | NA | NA | NA | GAAAGACCACCGTCGGACGA |
| 5286 | CTRL00438 | NA | NA | NA | NA | GTTAGACGCGCAACACCGCA |
| 5287 | CTRL00439 | NA | NA | NA | NA | GCAGAACCCGTACTAATATC |
| 5288 | CTRL00440 | NA | NA | NA | NA | GTCCGCTAGTGCCTCCACAT |
| 5289 | CTRL00441 | NA | NA | NA | NA | GGTTCTACCGGATTACCGAC |
| 5290 | CTRL00442 | NA | NA | NA | NA | GCGCATATCCTGTCCGATAC |
| 5291 | CTRL00443 | NA | NA | NA | NA | GTAGGCTCCCTTCGCCAATA |
| 5292 | CTRL00444 | NA | NA | NA | NA | GCAGGGACACATTCGTGTTC |
| 5293 | CTRL00445 | NA | NA | NA | NA | GGAGCCGATTGCTCTTAGCA |
| 5294 | CTRL00446 | NA | NA | NA | NA | GCTAAACGTTCCTCTCGCAG |
| 5295 | CTRL00447 | NA | NA | NA | NA | GCTAGGAAATCCCGACGTAA |
| 5296 | CTRL00448 | NA | NA | NA | NA | GCTATACGCTCTAGGCCAAT |
| 5297 | CTRL00449 | NA | NA | NA | NA | GCCGGCCCTTTACGAGGGCA |
| 5298 | CTRL00450 | NA | NA | NA | NA | GTCACACGCTTACGGCTTAC |
| 5299 | CTRL00451 | NA | NA | NA | NA | GCGTTAGGGAAGGGCGGTGT |
| 5300 | CTRL00452 | NA | NA | NA | NA | GTGATCTCACCGGCACGTGA |
| 5301 | CTRL00453 | NA | NA | NA | NA | GGGTCGACCATTCGGGACGA |
| 5302 | CTRL00454 | NA | NA | NA | NA | GACCGCTAAGAACAGCGCTC |
| 5303 | CTRL00455 | NA | NA | NA | NA | GAACGAGTCGCATCCGATGT |
| 5304 | CTRL00456 | NA | NA | NA | NA | GAGGTAGATGTGTCTTGTGA |
| 5305 | CTRL00457 | NA | NA | NA | NA | GTCAGCCCATTGTGTAACGG |

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|---|---|---|---|---|---|---|
| 5306 | CTRL00458 | NA | NA | NA | NA | GCTTGGCCGAAACAGGCGAA |
| 5307 | CTRL00459 | NA | NA | NA | NA | GTCATCGCGGTTTGCGTACG |
| 5308 | CTRL00460 | NA | NA | NA | NA | GCCCAAACTGTGCTACCGCA |
| 5309 | CTRL00461 | NA | NA | NA | NA | GCACGGACTGGTTCCGACAT |
| 5310 | CTRL00462 | NA | NA | NA | NA | GTACAGGAAGCATCCGTAGG |
| 5311 | CTRL00463 | NA | NA | NA | NA | GGCCCGGATGTCTGGAGCCA |
| 5312 | CTRL00464 | NA | NA | NA | NA | GAATCTCGTACCGTACACGA |
| 5313 | CTRL00465 | NA | NA | NA | NA | GCGAGCTCCATCTCACCAGT |
| 5314 | CTRL00466 | NA | NA | NA | NA | GCGGATATGACTATGATTGG |
| 5315 | CTRL00467 | NA | NA | NA | NA | GGATGGACTCCTGCTACGCC |
| 5316 | CTRL00468 | NA | NA | NA | NA | GCATCTACGGCCGATGTTCT |
| 5317 | CTRL00469 | NA | NA | NA | NA | GTATGTCGTCGCTTGCCCTG |
| 5318 | CTRL00470 | NA | NA | NA | NA | GCGACGCGCTGCGACCCTTC |
| 5319 | CTRL00471 | NA | NA | NA | NA | GATCAAGACAACGGTCGACA |
| 5320 | CTRL00472 | NA | NA | NA | NA | GGTATTGTAGGAAGCACCGC |
| 5321 | CTRL00473 | NA | NA | NA | NA | GCGCTACGTAGTGGGTACAT |
| 5322 | CTRL00474 | NA | NA | NA | NA | GCGCAAGGAGTCCGGACCGG |
| 5323 | CTRL00475 | NA | NA | NA | NA | GCGGACCTCCCGTTTGGAGA |
| 5324 | CTRL00476 | NA | NA | NA | NA | GTCTACGCTGACCCGGGTAT |
| 5325 | CTRL00477 | NA | NA | NA | NA | GCGAGTGCTTACGTTAAGCT |
| 5326 | CTRL00478 | NA | NA | NA | NA | GTTGCTGGCTTACTCTAAGT |
| 5327 | CTRL00479 | NA | NA | NA | NA | GTTACGGAGTTTCACCTCAG |
| 5328 | CTRL00480 | NA | NA | NA | NA | GAAGCTGCTGTTGCCCGACC |
| 5329 | CTRL00481 | NA | NA | NA | NA | GTAACGCGCTTGGGTCAAGC |
| 5330 | CTRL00482 | NA | NA | NA | NA | GACCTGATGGCCGAGATTAA |
| 5331 | CTRL00483 | NA | NA | NA | NA | GGTAACCTGCTGCCTAGCGT |
| 5332 | CTRL00484 | NA | NA | NA | NA | GTGAATACCCGTGACGGACA |
| 5333 | CTRL00485 | NA | NA | NA | NA | GAGTGAACGACGCCTACGAG |
| 5334 | CTRL00486 | NA | NA | NA | NA | GGAGGATTGGACGTTCCCTA |
| 5335 | CTRL00487 | NA | NA | NA | NA | GAGGTTAGAGCTTCGTGGTC |
| 5336 | CTRL00488 | NA | NA | NA | NA | GCTCAATATATCGTGACCGA |
| 5337 | CTRL00489 | NA | NA | NA | NA | GAGACCTTCGTTTCCCGCGT |
| 5338 | CTRL00490 | NA | NA | NA | NA | GCATGCGACCATTAGGACCC |
| 5339 | CTRL00491 | NA | NA | NA | NA | GTGGCCTCGTCAAATCGGAT |
| 5340 | CTRL00492 | NA | NA | NA | NA | GGATACTTCTTCGAACGTTT |
| 5341 | CTRL00493 | NA | NA | NA | NA | GGCAATCGGCACGGCAAGGT |
| 5342 | CTRL00494 | NA | NA | NA | NA | GGCAATACTAGGCCTTGCTG |
| 5343 | CTRL00495 | NA | NA | NA | NA | GTTCGCAGCAAAGATTACCC |
| 5344 | CTRL00496 | NA | NA | NA | NA | GTAGTTTATTTCCGTATCGC |
| 5345 | CTRL00497 | NA | NA | NA | NA | GGTAGGAATCTAGAACTCGG |
| 5346 | CTRL00498 | NA | NA | NA | NA | GACGCGTCATAGCGGATAAA |
| 5347 | CTRL00499 | NA | NA | NA | NA | GGCCTAACCCACATAAGCGG |
| 5348 | CTRL00500 | NA | NA | NA | NA | GTCCACGACGACCTAGAATC |
| 5349 | CTRL00501 | NA | NA | NA | NA | GCAGCGGTCGGTCAACTTAT |
| 5350 | CTRL00502 | NA | NA | NA | NA | GCGAATTGGCGTGGCATCGT |
| 5351 | CTRL00503 | NA | NA | NA | NA | GGGAGTGGTAAGCTGGTGCG |
| 5352 | CTRL00504 | NA | NA | NA | NA | GGTTCTATGTTACGCAGGGC |
| 5353 | CTRL00505 | NA | NA | NA | NA | GCATGAACTCCGGCCATTAA |
| 5354 | CTRL00506 | NA | NA | NA | NA | GTAAAGACCCACCATCAGAG |
| 5355 | CTRL00507 | NA | NA | NA | NA | GTGTGTCGACATGATACGGG |
| 5356 | CTRL00508 | NA | NA | NA | NA | GCATCTCTACCGTTCACCGC |
| 5357 | CTRL00509 | NA | NA | NA | NA | GCGAATTCACTCCCTTAGCG |
| 5358 | CTRL00510 | NA | NA | NA | NA | GTGTTAACTCGGGTGTGGAC |
| 5359 | CTRL00511 | NA | NA | NA | NA | GAGTAGTTCGTCGTCTTCGT |
| 5360 | CTRL00512 | NA | NA | NA | NA | GGTCCGATGCCCAAAGCATT |
| 5361 | CTRL00513 | NA | NA | NA | NA | GCGGCAAACAACCTGCGGCT |
| 5362 | CTRL00514 | NA | NA | NA | NA | GACGTCGGTCACTGAGATGC |
| 5363 | CTRL00515 | NA | NA | NA | NA | GAGAAAGCCCGCTCTCGTAT |
| 5364 | CTRL00516 | NA | NA | NA | NA | GACTCGCCGACCCGAAGGCA |
| 5365 | CTRL00517 | NA | NA | NA | NA | GATGGATCCCTATAGCTACG |
| 5366 | CTRL00518 | NA | NA | NA | NA | GATAATGTACGTATGTTGCG |

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|---|---|---|---|---|---|---|
| 5367 | CTRL00519 | NA | NA | NA | NA | GCCTAGCCTCGCTATGAACG |
| 5368 | CTRL00520 | NA | NA | NA | NA | GGTTGGTGCTAGTGGTCGAA |
| 5369 | CTRL00521 | NA | NA | NA | NA | GCAATCACATGCAACCGATA |
| 5370 | CTRL00522 | NA | NA | NA | NA | GGTGCGCCCGATGGTGCATA |
| 5371 | CTRL00523 | NA | NA | NA | NA | GCCCTGATCGCATACGTTGA |
| 5372 | CTRL00524 | NA | NA | NA | NA | GTATTAGTATGTCCTCAGCG |
| 5373 | CTRL00525 | NA | NA | NA | NA | GTTCTCCGCCCAAATCGCAT |
| 5374 | CTRL00526 | NA | NA | NA | NA | GTCCCTAGCTGAAGGACCGG |
| 5375 | CTRL00527 | NA | NA | NA | NA | GATGTCGACACGTTGGAATA |
| 5376 | CTRL00528 | NA | NA | NA | NA | GACCATACTAGCGAGAAGCG |
| 5377 | CTRL00529 | NA | NA | NA | NA | GGCGTTATAAGCATTTCGGG |
| 5378 | CTRL00530 | NA | NA | NA | NA | GTATTACGCCGGACCGCCGA |
| 5379 | CTRL00531 | NA | NA | NA | NA | GAATCGGGCATGGAGTCACG |
| 5380 | CTRL00532 | NA | NA | NA | NA | GTCGCCGGTATGCATCTGCT |
| 5381 | CTRL00533 | NA | NA | NA | NA | GATTAGTAGCCGAACCCTTT |
| 5382 | CTRL00534 | NA | NA | NA | NA | GCAATATCGCCTGTATTACC |
| 5383 | CTRL00535 | NA | NA | NA | NA | GGTTGCGCCCATGGCCTTTA |
| 5384 | CTRL00536 | NA | NA | NA | NA | GCCCAGCGCATCCCGGTGGA |
| 5385 | CTRL00537 | NA | NA | NA | NA | GTACTGGCGGTTGAAGCCGC |
| 5386 | CTRL00538 | NA | NA | NA | NA | GAAAGCCTAATCTGCACAGC |
| 5387 | CTRL00539 | NA | NA | NA | NA | GTAATGCCAGTGAACTACGC |
| 5388 | CTRL00540 | NA | NA | NA | NA | GTTCGTCTTCGATTGGGATA |
| 5389 | CTRL00541 | NA | NA | NA | NA | GTTCGTATCTCCTGACAAGA |
| 5390 | CTRL00542 | NA | NA | NA | NA | GTCAGAATTTGCCACCATAA |
| 5391 | CTRL00543 | NA | NA | NA | NA | GTACTGCCGGACGTAGCGTT |
| 5392 | CTRL00544 | NA | NA | NA | NA | GCGGCCTTTCGCGCGTCCTT |
| 5393 | CTRL00545 | NA | NA | NA | NA | GGGCTGTTCTCACTCGTAGC |
| 5394 | CTRL00546 | NA | NA | NA | NA | GCTTCGGTCACTCTATCGAT |
| 5395 | CTRL00547 | NA | NA | NA | NA | GCGATGGGACTTCCCTACAG |
| 5396 | CTRL00548 | NA | NA | NA | NA | GCGCCGTTTGAATTGCGACG |
| 5397 | CTRL00549 | NA | NA | NA | NA | GCGGCGGTGAGTCGTTTATG |
| 5398 | CTRL00550 | NA | NA | NA | NA | GCATACCTCGTGAGCTGAAA |
| 5399 | CTRL00551 | NA | NA | NA | NA | GCGAAGAGTGTATGCCGCAA |
| 5400 | CTRL00552 | NA | NA | NA | NA | GCCCGTTCGCGCGTATGACC |
| 5401 | CTRL00553 | NA | NA | NA | NA | GCCGATAACGATTCCGCCTG |
| 5402 | CTRL00554 | NA | NA | NA | NA | GCTTCCACGCGCGCGGGTTA |
| 5403 | CTRL00555 | NA | NA | NA | NA | GGCGCAGCCGGTTCCTTCTA |
| 5404 | CTRL00556 | NA | NA | NA | NA | GAGGCGGCCATCGGCTCAAT |
| 5405 | CTRL00557 | NA | NA | NA | NA | GCTCGTACGGGTTAACCTTC |
| 5406 | CTRL00558 | NA | NA | NA | NA | GTTCCGGGTCGTCGTTCTTC |
| 5407 | CTRL00559 | NA | NA | NA | NA | GTCGACAGAACGAACATAGG |
| 5408 | CTRL00560 | NA | NA | NA | NA | GTCTCGTGCAACCTGCGCGT |
| 5409 | CTRL00561 | NA | NA | NA | NA | GTACTAGCATGCCAGCCCAC |
| 5410 | CTRL00562 | NA | NA | NA | NA | GTTCCACGTAGACACGCAAG |
| 5411 | CTRL00563 | NA | NA | NA | NA | GCTCAACATACGCCCACACT |
| 5412 | CTRL00564 | NA | NA | NA | NA | GCCCTTCACACGCAGAACTC |
| 5413 | CTRL00565 | NA | NA | NA | NA | GTAAGCAGATCATGAGCGGT |
| 5414 | CTRL00566 | NA | NA | NA | NA | GATGCGATCCTCTACTCACG |
| 5415 | CTRL00567 | NA | NA | NA | NA | GTGACCTACTAATTTCGGAC |
| 5416 | CTRL00568 | NA | NA | NA | NA | GTTTCTATAACGTCGGGTGA |
| 5417 | CTRL00569 | NA | NA | NA | NA | GAGCGGATTGGCCTGCGTCC |
| 5418 | CTRL00570 | NA | NA | NA | NA | GTATCAGTCCGCCGCTGTTA |
| 5419 | CTRL00571 | NA | NA | NA | NA | GCTTAGCGAAGAGTTCAGGA |
| 5420 | CTRL00572 | NA | NA | NA | NA | GGCCTGCGACCATCGCCAAC |
| 5421 | CTRL00573 | NA | NA | NA | NA | GCGGAGTTGCTCGGCAAGTG |
| 5422 | CTRL00574 | NA | NA | NA | NA | GCCCGTATACTGTTTAGGGC |
| 5423 | CTRL00575 | NA | NA | NA | NA | GGAGACACGGTTGGTTCGGG |
| 5424 | CTRL00576 | NA | NA | NA | NA | GATGATAATCGCGGTCGAGA |
| 5425 | CTRL00577 | NA | NA | NA | NA | GGGCCTAGGATCCGCTATCG |
| 5426 | CTRL00578 | NA | NA | NA | NA | GTTGCATTGACGGAGCGTAA |
| 5427 | CTRL00579 | NA | NA | NA | NA | GACATCTGTCTACGTAACCC |

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|---|---|---|---|---|---|---|
| 5428 | CTRL00580 | NA | NA | NA | NA | GGCAAACGGACGCTAAACAG |
| 5429 | CTRL00581 | NA | NA | NA | NA | GTTGCGTTTACCGTAGACGT |
| 5430 | CTRL00582 | NA | NA | NA | NA | GTCGTGATGGACTTCGTAGG |
| 5431 | CTRL00583 | NA | NA | NA | NA | GTCCTAGTAGATACCTCGTC |
| 5432 | CTRL00584 | NA | NA | NA | NA | GCGCCAGTAGGCACATCGAC |
| 5433 | CTRL00585 | NA | NA | NA | NA | GTAAGACGTTCAATGCGCTA |
| 5434 | CTRL00586 | NA | NA | NA | NA | GGACGGCTATTAGATAGTTT |
| 5435 | CTRL00587 | NA | NA | NA | NA | GATCGACTCACACACGACAC |
| 5436 | CTRL00588 | NA | NA | NA | NA | GCCGAACATACACGACGCCT |
| 5437 | CTRL00589 | NA | NA | NA | NA | GGATGACGTCGGATGTTAAT |
| 5438 | CTRL00590 | NA | NA | NA | NA | GTACCTACCGCCAGCGTTCC |
| 5439 | CTRL00591 | NA | NA | NA | NA | GAGGGTACACTGCCGCTCGA |
| 5440 | CTRL00592 | NA | NA | NA | NA | GGTATCGTCAGATTTCCGCG |
| 5441 | CTRL00593 | NA | NA | NA | NA | GTAATAAATTGCCTGCCGTT |
| 5442 | CTRL00594 | NA | NA | NA | NA | GGTCGATAGGGTCACGAGAA |
| 5443 | CTRL00595 | NA | NA | NA | NA | GGAGACACGAATAGCCGCCT |
| 5444 | CTRL00596 | NA | NA | NA | NA | GGCTAAAGGGCAAGGCGCGC |
| 5445 | CTRL00597 | NA | NA | NA | NA | GAATTAGTCGCGGTTAGGTG |
| 5446 | CTRL00598 | NA | NA | NA | NA | GGATCGATCCACACTAAGGA |
| 5447 | CTRL00599 | NA | NA | NA | NA | GCGATGGCGCTGCTTGCGAA |
| 5448 | CTRL00600 | NA | NA | NA | NA | GCAAGCTGTCGTTACACATA |
| 5449 | CTRL00601 | NA | NA | NA | NA | GATCCCGAGGGCGGCGTGTC |
| 5450 | CTRL00602 | NA | NA | NA | NA | GGTAATTGCGGAATCGTCCG |
| 5451 | CTRL00603 | NA | NA | NA | NA | GGCAACGCTTCATACGAAAT |
| 5452 | CTRL00604 | NA | NA | NA | NA | GCCAGCAACTTTCGCCATGC |
| 5453 | CTRL00605 | NA | NA | NA | NA | GCTGAAGACGGTCTCTGATT |
| 5454 | CTRL00606 | NA | NA | NA | NA | GGACGGTCAATGTGTTATCG |
| 5455 | CTRL00607 | NA | NA | NA | NA | GCCGGTCCGTGCAACATACT |
| 5456 | CTRL00608 | NA | NA | NA | NA | GGTATGAAACACGACCGCGG |
| 5457 | CTRL00609 | NA | NA | NA | NA | GGAACCGCTTTACGCATACG |
| 5458 | CTRL00610 | NA | NA | NA | NA | GTGTACTTCGGACTGGTCCG |
| 5459 | CTRL00611 | NA | NA | NA | NA | GAATATCTACCCAACGACTA |
| 5460 | CTRL00612 | NA | NA | NA | NA | GCCGCAGGCCTCGCACAATA |
| 5461 | CTRL00613 | NA | NA | NA | NA | GAGGACGAACCCGTCATCAC |
| 5462 | CTRL00614 | NA | NA | NA | NA | GTTGGCCTCGTCAATAACGT |
| 5463 | CTRL00615 | NA | NA | NA | NA | GCGCGCTGAACCAGCCCTTA |
| 5464 | CTRL00616 | NA | NA | NA | NA | GGTTAAAGAGATTGTACGCC |
| 5465 | CTRL00617 | NA | NA | NA | NA | GGGACTACTCCCGGAGATCG |
| 5466 | CTRL00618 | NA | NA | NA | NA | GACTTTAACTAGGGTACGCG |
| 5467 | CTRL00619 | NA | NA | NA | NA | GTAGCCCATAGCCGGAGAGG |
| 5468 | CTRL00620 | NA | NA | NA | NA | GTTAGTCGATAACCAAACGG |
| 5469 | CTRL00621 | NA | NA | NA | NA | GGTGGAGCACCCGGTACTCA |
| 5470 | CTRL00622 | NA | NA | NA | NA | GCGTACCCGCTCATGTATGC |
| 5471 | CTRL00623 | NA | NA | NA | NA | GTTATGAGCGGGCTTCTAAC |
| 5472 | CTRL00624 | NA | NA | NA | NA | GGGCTAACGGATTTACCCGC |
| 5473 | CTRL00625 | NA | NA | NA | NA | GACTGACACGAGTAGACCGC |
| 5474 | CTRL00626 | NA | NA | NA | NA | GACGCCCAGACTGTTAGCGC |
| 5475 | CTRL00627 | NA | NA | NA | NA | GCGCTCACCGTTGTAAGTTC |
| 5476 | CTRL00628 | NA | NA | NA | NA | GTTGGTCACACAGCGAATAT |
| 5477 | CTRL00629 | NA | NA | NA | NA | GCACGTGATGTCTCACTTCG |
| 5478 | CTRL00630 | NA | NA | NA | NA | GCAGATCGTTCATTTCAGCG |
| 5479 | CTRL00631 | NA | NA | NA | NA | GTTAACGCGTGCTACTGGTT |
| 5480 | CTRL00632 | NA | NA | NA | NA | GTCGTCCAGAAGCTATCGAG |
| 5481 | CTRL00633 | NA | NA | NA | NA | GCGAACACTTAACGGATACG |
| 5482 | CTRL00634 | NA | NA | NA | NA | GGACGCAAGTTTGGTGCAAA |
| 5483 | CTRL00635 | NA | NA | NA | NA | GAGACGGCTCATGCACTTAC |
| 5484 | CTRL00636 | NA | NA | NA | NA | GAATGGGAGCGCGCAGTACC |
| 5485 | CTRL00637 | NA | NA | NA | NA | GGGTTGCACGTAGGATATTC |
| 5486 | CTRL00638 | NA | NA | NA | NA | GGACGGGTAACGAGTCGGCT |
| 5487 | CTRL00639 | NA | NA | NA | NA | GCCGTAATCCGCTCCCTAAA |
| 5488 | CTRL00640 | NA | NA | NA | NA | GCGTATTGTATCCGCCACCG |

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|---|---|---|---|---|---|---|
| 5489 | CTRL00641 | NA | NA | NA | NA | GCCGTCGAGTTTCTAGCGAT |
| 5490 | CTRL00642 | NA | NA | NA | NA | GCGATCCGGAGATAGTTATG |
| 5491 | CTRL00643 | NA | NA | NA | NA | GTCGATCCTCACTTCGCACT |
| 5492 | CTRL00644 | NA | NA | NA | NA | GCAGCGTGGATTACTTGCCT |
| 5493 | CTRL00645 | NA | NA | NA | NA | GGCACTATGTTCTGCGCGGC |
| 5494 | CTRL00646 | NA | NA | NA | NA | GCAAGAGCTCGATACAACCA |
| 5495 | CTRL00647 | NA | NA | NA | NA | GGCCGCACGACACTTTATAC |
| 5496 | CTRL00648 | NA | NA | NA | NA | GGGTATTAGCAGTGTGACAG |
| 5497 | CTRL00649 | NA | NA | NA | NA | GTCGTGAATTCGCCATCACG |
| 5498 | CTRL00650 | NA | NA | NA | NA | GATTAGACGGCTCTTCCCGT |
| 5499 | CTRL00651 | NA | NA | NA | NA | GGATCCGTCCTTCGCTATCA |
| 5500 | CTRL00652 | NA | NA | NA | NA | GCAAGCACTATCCGAGTACG |
| 5501 | CTRL00653 | NA | NA | NA | NA | GCCACTAGTCGTGTGTCACA |
| 5502 | CTRL00654 | NA | NA | NA | NA | GATTATTCCCAGAGTACTCC |
| 5503 | CTRL00655 | NA | NA | NA | NA | GGACTCCAGCCAGGTAGCGC |
| 5504 | CTRL00656 | NA | NA | NA | NA | GAGAATTGCCGGAGGAGTAT |
| 5505 | CTRL00657 | NA | NA | NA | NA | GGGTCGCTAGCGTATGGCTC |
| 5506 | CTRL00658 | NA | NA | NA | NA | GCGGGTCGCAGGAACCGGGA |
| 5507 | CTRL00659 | NA | NA | NA | NA | GAGATTGCTCATGGTTCCCG |
| 5508 | CTRL00660 | NA | NA | NA | NA | GTGTACAGATGCCACCGTAA |
| 5509 | CTRL00661 | NA | NA | NA | NA | GTCCTCTCCGGACGAGATGG |
| 5510 | CTRL00662 | NA | NA | NA | NA | GGTACATAGCGGCTGTAACG |
| 5511 | CTRL00663 | NA | NA | NA | NA | GAACCGAAATCTCACGGACA |
| 5512 | CTRL00664 | NA | NA | NA | NA | GACGGGTATACCGATAAGCA |
| 5513 | CTRL00665 | NA | NA | NA | NA | GCACTAGTTGCGACACGCTC |
| 5514 | CTRL00666 | NA | NA | NA | NA | GTACACATGTGATATGTCGA |
| 5515 | CTRL00667 | NA | NA | NA | NA | GGACCCACCGGACTTGTGGC |
| 5516 | CTRL00668 | NA | NA | NA | NA | GCTGTTGGCTCGACGAAAGT |
| 5517 | CTRL00669 | NA | NA | NA | NA | GCCCGTCTCGCATTCGGGAT |
| 5518 | CTRL00670 | NA | NA | NA | NA | GGCCCGGAGGGTTTACCACA |
| 5519 | CTRL00671 | NA | NA | NA | NA | GGACGGAGGAGCGCGGTCAA |
| 5520 | CTRL00672 | NA | NA | NA | NA | GAGCGGTAACAAGGCTTGCG |
| 5521 | CTRL00673 | NA | NA | NA | NA | GAGTAAAGCCGATTATATCG |
| 5522 | CTRL00674 | NA | NA | NA | NA | GGTGCACGTCCGGCTTAAAT |
| 5523 | CTRL00675 | NA | NA | NA | NA | GATCGCGAAATCCAAGCCCT |
| 5524 | CTRL00676 | NA | NA | NA | NA | GCTACATTCTGACATCGCAT |
| 5525 | CTRL00677 | NA | NA | NA | NA | GCTCCGTCGGGCTGTATCCG |
| 5526 | CTRL00678 | NA | NA | NA | NA | GGTTCGCCCGATGGAGGTCT |
| 5527 | CTRL00679 | NA | NA | NA | NA | GGCGTTATAGCTCGCCGTTA |
| 5528 | CTRL00680 | NA | NA | NA | NA | GCTCTTATTGTCCTCGAGTT |
| 5529 | CTRL00681 | NA | NA | NA | NA | GTTGCTACCGGATCGTCGTC |
| 5530 | CTRL00682 | NA | NA | NA | NA | GGGCTCAAGGGTGTTCGAAC |
| 5531 | CTRL00683 | NA | NA | NA | NA | GATAGACGGCTATCCGACGG |
| 5532 | CTRL00684 | NA | NA | NA | NA | GACATCCGTTGTCTTATCTA |
| 5533 | CTRL00685 | NA | NA | NA | NA | GCGATGACATACTGCTCGTG |
| 5534 | CTRL00686 | NA | NA | NA | NA | GGGCGTCCTTTAGAGTGAGA |
| 5535 | CTRL00687 | NA | NA | NA | NA | GTATCTGAGGCTTTAGACGG |
| 5536 | CTRL00688 | NA | NA | NA | NA | GACCCTGAACAACCTAGGAT |
| 5537 | CTRL00689 | NA | NA | NA | NA | GGACCGGCACCTTATTATAT |
| 5538 | CTRL00690 | NA | NA | NA | NA | GATTCCGACTATCTCGACCA |
| 5539 | CTRL00691 | NA | NA | NA | NA | GTACCTCCACCTACCCTAGT |
| 5540 | CTRL00692 | NA | NA | NA | NA | GCGGCTTCCGGGCTTTAATG |
| 5541 | CTRL00693 | NA | NA | NA | NA | GATAGCCAGTGACGGATGGC |
| 5542 | CTRL00694 | NA | NA | NA | NA | GTCGCTCAATTCTCGGTAGG |
| 5543 | CTRL00695 | NA | NA | NA | NA | GTACGCGTACGGTTCCGTCG |
| 5544 | CTRL00696 | NA | NA | NA | NA | GAATGCTGAGTACGGTCTGT |
| 5545 | CTRL00697 | NA | NA | NA | NA | GCGATCTGCCGTATCATCAT |
| 5546 | CTRL00698 | NA | NA | NA | NA | GGTCTATGGCCACCCGCTAC |
| 5547 | CTRL00699 | NA | NA | NA | NA | GAATCGGAATCGTTCCAGGC |
| 5548 | CTRL00700 | NA | NA | NA | NA | GAGTATCACCTGAGCCGATT |
| 5549 | CTRL00701 | NA | NA | NA | NA | GACGATCTTCCGCGCGAGAG |

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|---|---|---|---|---|---|---|
| 5550 | CTRL00702 | NA | NA | NA | NA | GGCTTTCGCGGTTCACCAGG |
| 5551 | CTRL00703 | NA | NA | NA | NA | GACATCAACCATCTGCGTGA |
| 5552 | CTRL00704 | NA | NA | NA | NA | GCCCGGGACCGTGTCGATGA |
| 5553 | CTRL00705 | NA | NA | NA | NA | GTGTGATCGTGGAATCCTAC |
| 5554 | CTRL00706 | NA | NA | NA | NA | GTGGTTGTTTGTGGAGCCGA |
| 5555 | CTRL00707 | NA | NA | NA | NA | GCACGCCGATAGCACCCTGA |
| 5556 | CTRL00708 | NA | NA | NA | NA | GCTAGACTAACGTTTGTGTC |
| 5557 | CTRL00709 | NA | NA | NA | NA | GCACGTCGCCTTTGCTGCTG |
| 5558 | CTRL00710 | NA | NA | NA | NA | GGGACGTAAATTCTACCTGC |
| 5559 | CTRL00711 | NA | NA | NA | NA | GCGCGACAACACGACCAGGA |
| 5560 | CTRL00712 | NA | NA | NA | NA | GTCAAGCCGAACTTGTTAGC |
| 5561 | CTRL00713 | NA | NA | NA | NA | GTACGCAAACGCCCTTTGGG |
| 5562 | CTRL00714 | NA | NA | NA | NA | GAGTTGTGCCCGCTCGACTT |
| 5563 | CTRL00715 | NA | NA | NA | NA | GGTTCGCGCAAAGCTAGTAA |
| 5564 | CTRL00716 | NA | NA | NA | NA | GCGCATCCTACGGGCTCCCT |
| 5565 | CTRL00717 | NA | NA | NA | NA | GCCAGAGTTCTTGCACCCGA |
| 5566 | CTRL00718 | NA | NA | NA | NA | GGATAACGGGATGACTGCGC |
| 5567 | CTRL00719 | NA | NA | NA | NA | GCGCACAATCCCATCTCCAA |
| 5568 | CTRL00720 | NA | NA | NA | NA | GTATTCTTGACTATTGCACG |
| 5569 | CTRL00721 | NA | NA | NA | NA | GTACCTACGTGTTGTAAAGG |
| 5570 | CTRL00722 | NA | NA | NA | NA | GTCTTAGCTGCGTTGCATGG |
| 5571 | CTRL00723 | NA | NA | NA | NA | GCGATACACTCCTAGCTATG |
| 5572 | CTRL00724 | NA | NA | NA | NA | GTATTACGCTAGACTTCACG |
| 5573 | CTRL00725 | NA | NA | NA | NA | GACGCTGTTCGCGCTTCGAA |
| 5574 | CTRL00726 | NA | NA | NA | NA | GTAAGGACAGAAGTAGATCA |
| 5575 | CTRL00727 | NA | NA | NA | NA | GCGAACGCGATGTGTCAATC |
| 5576 | CTRL00728 | NA | NA | NA | NA | GATCTATCTAAGCGGCGGAA |
| 5577 | CTRL00729 | NA | NA | NA | NA | GGGTACCTCGCGAGGTCTCT |
| 5578 | CTRL00730 | NA | NA | NA | NA | GACCGACGTGTCTATTCACT |
| 5579 | CTRL00731 | NA | NA | NA | NA | GCAATCGCATGCAGCGGTTA |
| 5580 | CTRL00732 | NA | NA | NA | NA | GTTCAAGCATAAAGGTCGCG |
| 5581 | CTRL00733 | NA | NA | NA | NA | GGGTGGTCCGGAGGTTCACT |
| 5582 | CTRL00734 | NA | NA | NA | NA | GATCTGAGGATACAGACGGA |
| 5583 | CTRL00735 | NA | NA | NA | NA | GACCCTATCCAACTTGGCAC |
| 5584 | CTRL00736 | NA | NA | NA | NA | GGAGTAATCCTGTCGCAAGC |
| 5585 | CTRL00737 | NA | NA | NA | NA | GAAGATGTGTTGAATTCTCG |
| 5586 | CTRL00738 | NA | NA | NA | NA | GTCGAATCGTCGATAGGTTC |
| 5587 | CTRL00739 | NA | NA | NA | NA | GCCGATCAAGGTCTCTCTTC |
| 5588 | CTRL00740 | NA | NA | NA | NA | GTATGCCGGCACGTTACGTT |
| 5589 | CTRL00741 | NA | NA | NA | NA | GGTGGATGTGATATGCGACG |
| 5590 | CTRL00742 | NA | NA | NA | NA | GAATAGCTGACAACTTGACC |
| 5591 | CTRL00743 | NA | NA | NA | NA | GCTCCCGCATATCGGTTAGC |
| 5592 | CTRL00744 | NA | NA | NA | NA | GTTTAAACGCTCCACAGGTT |
| 5593 | CTRL00745 | NA | NA | NA | NA | GGTTCCACTGCGGCCTCGAT |
| 5594 | CTRL00746 | NA | NA | NA | NA | GTCTTATTGAACGGAGATGG |
| 5595 | CTRL00747 | NA | NA | NA | NA | GTCCGGTCTTTACCGAAGAT |
| 5596 | CTRL00748 | NA | NA | NA | NA | GCCTCCGCAAGACGTGGTAT |
| 5597 | CTRL00749 | NA | NA | NA | NA | GGGCAAACCGCTCCGATGAA |
| 5598 | CTRL00750 | NA | NA | NA | NA | GCTGGACCAAGCCTGCGATT |
| 5599 | CTRL00751 | NA | NA | NA | NA | GAGTTAGAAAGTCGACCTAA |
| 5600 | CTRL00752 | NA | NA | NA | NA | GCGGGATCGTCATCTCACTA |
| 5601 | CTRL00753 | NA | NA | NA | NA | GGAAACATCTGGTAGCCTCG |
| 5602 | CTRL00754 | NA | NA | NA | NA | GTCATGTAACCGCTCACGGG |
| 5603 | CTRL00755 | NA | NA | NA | NA | GCTGACGCTCGTACTGGTCG |
| 5604 | CTRL00756 | NA | NA | NA | NA | GTGTCACGCAACGCCTATGA |
| 5605 | CTRL00757 | NA | NA | NA | NA | GTGTAGTTAGAGCTCGCGGA |
| 5606 | CTRL00758 | NA | NA | NA | NA | GTTCGCCCGGAGCTCAGGTC |
| 5607 | CTRL00759 | NA | NA | NA | NA | GACAAGCGCGACGTATCCTT |
| 5608 | CTRL00760 | NA | NA | NA | NA | GGACGCCCTTGTGAACTGAT |
| 5609 | CTRL00761 | NA | NA | NA | NA | GTAGCTACTGCGTGGAGCTA |
| 5610 | CTRL00762 | NA | NA | NA | NA | GATTCGCCGCGCCAATCCAA |

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|---|---|---|---|---|---|---|
| 5611 | CTRL00763 | NA | NA | NA | NA | GGCTCTCTGACCTGTTCGGA |
| 5612 | CTRL00764 | NA | NA | NA | NA | GACTTTATGACGAAGGCCCG |
| 5613 | CTRL00765 | NA | NA | NA | NA | GGTCACCACGCCTTGGCATC |
| 5614 | CTRL00766 | NA | NA | NA | NA | GCGCCGTACAGTAGCGCACT |
| 5615 | CTRL00767 | NA | NA | NA | NA | GCCGAAACTAGCGAAGCGCC |
| 5616 | CTRL00768 | NA | NA | NA | NA | GAGCGTTACGATTCGCTGAC |
| 5617 | CTRL00769 | NA | NA | NA | NA | GGCTCTTAGTATACCAGCGG |
| 5618 | CTRL00770 | NA | NA | NA | NA | GGAGCATTGCTGATAGGTCC |
| 5619 | CTRL00771 | NA | NA | NA | NA | GCTGTGGGACATAGATCGCG |
| 5620 | CTRL00772 | NA | NA | NA | NA | GCTATTTAGCTTGTTGTCGA |
| 5621 | CTRL00773 | NA | NA | NA | NA | GGCTAACGTGTGAGCACTGG |
| 5622 | CTRL00774 | NA | NA | NA | NA | GCCCATGTCACCGCTTGAAG |
| 5623 | CTRL00775 | NA | NA | NA | NA | GTAAGGCGTCTTCGCGCGAA |
| 5624 | CTRL00776 | NA | NA | NA | NA | GTACCGTTGACCGACCAGGC |
| 5625 | CTRL00777 | NA | NA | NA | NA | GTTATTCCAAGTGTAGTCGG |
| 5626 | CTRL00778 | NA | NA | NA | NA | GACTGGTGAAGTAGGCGCCG |
| 5627 | CTRL00779 | NA | NA | NA | NA | GTATCAATAGCAAGCGTCGC |
| 5628 | CTRL00780 | NA | NA | NA | NA | GATTCGAAAGGGACGGGCGC |
| 5629 | CTRL00781 | NA | NA | NA | NA | GCCTCATCCACGAAAGATGC |
| 5630 | CTRL00782 | NA | NA | NA | NA | GTGCCATCGAGCTCGTAGGA |
| 5631 | CTRL00783 | NA | NA | NA | NA | GCGGCGATAGAAGCTATATC |
| 5632 | CTRL00784 | NA | NA | NA | NA | GTCGCCACCGGTTGGTTGGT |
| 5633 | CTRL00785 | NA | NA | NA | NA | GTGCCGTAGGGTAAACTGTC |
| 5634 | CTRL00786 | NA | NA | NA | NA | GTCCGCTGTTGCACGAGAGT |
| 5635 | CTRL00787 | NA | NA | NA | NA | GCTGGGATATGTCACCCGCT |
| 5636 | CTRL00788 | NA | NA | NA | NA | GATTGATAAGGCTAGTTGCG |
| 5637 | CTRL00789 | NA | NA | NA | NA | GGCAAACTTCGCTAGGCGAT |
| 5638 | CTRL00790 | NA | NA | NA | NA | GGGACCTACGCATAGACGTG |
| 5639 | CTRL00791 | NA | NA | NA | NA | GTGACGGTTATTGTCTGTTA |
| 5640 | CTRL00792 | NA | NA | NA | NA | GCCCTTGTGCGTCGGTCGTT |
| 5641 | CTRL00793 | NA | NA | NA | NA | GACCGATCGGCGAATGCGAT |
| 5642 | CTRL00794 | NA | NA | NA | NA | GTTACGCCCGAATTTGCAAA |
| 5643 | CTRL00795 | NA | NA | NA | NA | GCGCCCACGCTCTAAGGATG |
| 5644 | CTRL00796 | NA | NA | NA | NA | GTAACGGCAGCTGTGCATGG |
| 5645 | CTRL00797 | NA | NA | NA | NA | GCAGCATCGTCGCTCCGGCA |
| 5646 | CTRL00798 | NA | NA | NA | NA | GCGCATGACGTGAGAATGAT |
| 5647 | CTRL00799 | NA | NA | NA | NA | GACTTTAGGAGGTAGTTCGT |
| 5648 | CTRL00800 | NA | NA | NA | NA | GGAGAAGAATTCGCCGTTGC |
| 5649 | CTRL00801 | NA | NA | NA | NA | GAGCCAGAACGTTTCTAACG |
| 5650 | CTRL00802 | NA | NA | NA | NA | GCGGTCCGGACTCATTCATA |
| 5651 | CTRL00803 | NA | NA | NA | NA | GTCATACGGTTGGTTCCGAA |
| 5652 | CTRL00804 | NA | NA | NA | NA | GCGCCGCCCAAATAAATCTG |
| 5653 | CTRL00805 | NA | NA | NA | NA | GTAGTCTCCTTGGTAATCGA |
| 5654 | CTRL00806 | NA | NA | NA | NA | GTTTACGCTACGACTTCGGC |
| 5655 | CTRL00807 | NA | NA | NA | NA | GGGCGTCACCTGCTACACGG |
| 5656 | CTRL00808 | NA | NA | NA | NA | GTACCGCCTTTCTGTCCCAC |
| 5657 | CTRL00809 | NA | NA | NA | NA | GGAGTAAGATTCGAAGTCGT |
| 5658 | CTRL00810 | NA | NA | NA | NA | GTGCTCTTTGTACCGACAGG |
| 5659 | CTRL00811 | NA | NA | NA | NA | GCCTAATGACCGACATTAAG |
| 5660 | CTRL00812 | NA | NA | NA | NA | GTATTCATATCTATCGCCGG |
| 5661 | CTRL00813 | NA | NA | NA | NA | GTAGCCAACAGCTCGAATAG |
| 5662 | CTRL00814 | NA | NA | NA | NA | GTGGGTCGGAATGAAAGTGG |
| 5663 | CTRL00815 | NA | NA | NA | NA | GATTATAGTCGCCGACTAGA |
| 5664 | CTRL00816 | NA | NA | NA | NA | GCCATTCGGTTAACCTAAAG |
| 5665 | CTRL00817 | NA | NA | NA | NA | GAACCACTTCCGCATTGATC |
| 5666 | CTRL00818 | NA | NA | NA | NA | GGCCATTATACCGTTGTTGT |
| 5667 | CTRL00819 | NA | NA | NA | NA | GGTCGTTTAACGGACCTATG |
| 5668 | CTRL00820 | NA | NA | NA | NA | GTAGAGTTAGCGGTCAGATT |
| 5669 | CTRL00821 | NA | NA | NA | NA | GTTCGTATCGGCTGCGTCCA |
| 5670 | CTRL00822 | NA | NA | NA | NA | GCGGTGTGCTGAAGACACTT |
| 5671 | CTRL00823 | NA | NA | NA | NA | GTTCCGGAATGCGCCACGAT |

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|---|---|---|---|---|---|---|
| 5672 | CTRL00824 | NA | NA | NA | NA | GCCGATGGCGATTCTGTATT |
| 5673 | CTRL00825 | NA | NA | NA | NA | GCCGCGGTTGGTCAATAGTT |
| 5674 | CTRL00826 | NA | NA | NA | NA | GTTAGCCGCCCAAGTCGATC |
| 5675 | CTRL00827 | NA | NA | NA | NA | GCTGTCACGCAACGGCATGT |
| 5676 | CTRL00828 | NA | NA | NA | NA | GTTCGACTGCTCGTTCTGTC |
| 5677 | CTRL00829 | NA | NA | NA | NA | GCCCATTTCGTGTAGCACGC |
| 5678 | CTRL00830 | NA | NA | NA | NA | GGCATACATCCAAACCGACC |
| 5679 | CTRL00831 | NA | NA | NA | NA | GCGCCCTACATGCGGCTGTA |
| 5680 | CTRL00832 | NA | NA | NA | NA | GTACCCAGACTACATTATTG |
| 5681 | CTRL00833 | NA | NA | NA | NA | GACACCTTGTATCCGCGATG |
| 5682 | CTRL00834 | NA | NA | NA | NA | GCGACAGGTTTAACCCGCAC |
| 5683 | CTRL00835 | NA | NA | NA | NA | GGCTATAGACGTCGGTTCGG |
| 5684 | CTRL00836 | NA | NA | NA | NA | GATCTAACATCAATTCTGGG |
| 5685 | CTRL00837 | NA | NA | NA | NA | GTCGCCCGCTCCTGGGAATG |
| 5686 | CTRL00838 | NA | NA | NA | NA | GTTGACGACAAGCAATTCAG |
| 5687 | CTRL00839 | NA | NA | NA | NA | GACCCGGCCAGCCTCGTAGA |
| 5688 | CTRL00840 | NA | NA | NA | NA | GCACGGTAGAAGATTGACAC |
| 5689 | CTRL00841 | NA | NA | NA | NA | GGATCATTCGGACGGTAGGA |
| 5690 | CTRL00842 | NA | NA | NA | NA | GAACACGGCTCACGTGTCCT |
| 5691 | CTRL00843 | NA | NA | NA | NA | GAGCAGAGAGTTAACGCCGC |
| 5692 | CTRL00844 | NA | NA | NA | NA | GGCGTGGGCCGGACGAGTAT |
| 5693 | CTRL00845 | NA | NA | NA | NA | GCGTCGGACGGATCTCTACA |
| 5694 | CTRL00846 | NA | NA | NA | NA | GAACTATACATGGACGATGC |
| 5695 | CTRL00847 | NA | NA | NA | NA | GATTTCCCATATTAACGGCG |
| 5696 | CTRL00848 | NA | NA | NA | NA | GTACGGCAGATAGTCGGTGG |
| 5697 | CTRL00849 | NA | NA | NA | NA | GCGCTCGAGACATCTGCAGT |
| 5698 | CTRL00850 | NA | NA | NA | NA | GTGCCTTATTATGTCCGGGC |
| 5699 | CTRL00851 | NA | NA | NA | NA | GGTCAGGTTACGGTCAGATC |
| 5700 | CTRL00852 | NA | NA | NA | NA | GAATTAGCGGATTACTACGG |
| 5701 | CTRL00853 | NA | NA | NA | NA | GGAGTCGGTGCTTACACGTT |
| 5702 | CTRL00854 | NA | NA | NA | NA | GCGAGCAACAAACAACACCG |
| 5703 | CTRL00855 | NA | NA | NA | NA | GCATAGTAATAACCCGAGTT |
| 5704 | CTRL00856 | NA | NA | NA | NA | GTACGCAGTAGCTCCGGCAC |
| 5705 | CTRL00857 | NA | NA | NA | NA | GTGTTCGCACTCATCTGGCG |
| 5706 | CTRL00858 | NA | NA | NA | NA | GTGAACGAGGAGGGTGGCGA |
| 5707 | CTRL00859 | NA | NA | NA | NA | GGCGAGCAACCAACCGCCCA |
| 5708 | CTRL00860 | NA | NA | NA | NA | GGAACCACGTTGCGGCCGGG |
| 5709 | CTRL00861 | NA | NA | NA | NA | GATAGATTATCGGAAGTCTC |
| 5710 | CTRL00862 | NA | NA | NA | NA | GAGTTGACCGGTCCCTACTG |
| 5711 | CTRL00863 | NA | NA | NA | NA | GACTGCCTACTTGATGCCGT |
| 5712 | CTRL00864 | NA | NA | NA | NA | GCTGCCGAACACTGAAGTGG |
| 5713 | CTRL00865 | NA | NA | NA | NA | GCCTAGTACGATATATTGGC |
| 5714 | CTRL00866 | NA | NA | NA | NA | GACCGTACCGGGTTACGAAC |
| 5715 | CTRL00867 | NA | NA | NA | NA | GCTGCCTTATAATGTGACGA |
| 5716 | CTRL00868 | NA | NA | NA | NA | GGCGTGCGCTGGGTTAGCCT |
| 5717 | CTRL00869 | NA | NA | NA | NA | GACGTGCCCGGATTCCCACG |
| 5718 | CTRL00870 | NA | NA | NA | NA | GACCCAACACTACCGGAGGG |
| 5719 | CTRL00871 | NA | NA | NA | NA | GCCATACAACTTGTCGTTGT |
| 5720 | CTRL00872 | NA | NA | NA | NA | GCGTGGTCCTGGTGACGCGA |
| 5721 | CTRL00873 | NA | NA | NA | NA | GCTAGCTGCGCTGGCTACGC |
| 5722 | CTRL00874 | NA | NA | NA | NA | GACTGACTCGCGCAGCGACC |
| 5723 | CTRL00875 | NA | NA | NA | NA | GGTATCCTAAGGAGCGCCCT |
| 5724 | CTRL00876 | NA | NA | NA | NA | GGTTCGGATGTCGTCGTCCC |
| 5725 | CTRL00877 | NA | NA | NA | NA | GCATGTCGCGAAAGCCCATA |
| 5726 | CTRL00878 | NA | NA | NA | NA | GCTATTATCGGCGAACTCAA |
| 5727 | CTRL00879 | NA | NA | NA | NA | GATAGAATGGTCGGTCATGC |
| 5728 | CTRL00880 | NA | NA | NA | NA | GAGCTAACAGGATACCGGCT |
| 5729 | CTRL00881 | NA | NA | NA | NA | GGTTAGTCGAAGTCGGAGGT |
| 5730 | CTRL00882 | NA | NA | NA | NA | GTGGTATTCATGACAACGCG |
| 5731 | CTRL00883 | NA | NA | NA | NA | GGGTGGCGAGAGTTACCGCT |
| 5732 | CTRL00884 | NA | NA | NA | NA | GGGCGCCCGCATTTATCGAG |

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|---|---|---|---|---|---|---|
| 5733 | CTRL00885 | NA | NA | NA | NA | GACCACTGAGATACACCGCC |
| 5734 | CTRL00886 | NA | NA | NA | NA | GAAGCAAGTAGGTCGACAGC |
| 5735 | CTRL00887 | NA | NA | NA | NA | GACGTCGTTAATCCGAGGAG |
| 5736 | CTRL00888 | NA | NA | NA | NA | GACTCATTGGAACATACATG |
| 5737 | CTRL00889 | NA | NA | NA | NA | GTACAGACCTAGATATAGGC |
| 5738 | CTRL00890 | NA | NA | NA | NA | GCGATAAAGAGAACGGGCAG |
| 5739 | CTRL00891 | NA | NA | NA | NA | GCCATCGAAGGTCTTAGATG |
| 5740 | CTRL00892 | NA | NA | NA | NA | GAACGGCCACCGTATTTAAT |
| 5741 | CTRL00893 | NA | NA | NA | NA | GGTTCGGAACTGACGATGCT |
| 5742 | CTRL00894 | NA | NA | NA | NA | GGCGGTTTGTACCTCGTGTG |
| 5743 | CTRL00895 | NA | NA | NA | NA | GAGCCCGACTAAAGAGGCCG |
| 5744 | CTRL00896 | NA | NA | NA | NA | GATGCTGATGATACGGGATC |
| 5745 | CTRL00897 | NA | NA | NA | NA | GTCCAAGCTGAATGCGAGCA |
| 5746 | CTRL00898 | NA | NA | NA | NA | GATGCTCGCTCGGAGACGCC |
| 5747 | CTRL00899 | NA | NA | NA | NA | GTTACTCCCAACCGACGCAA |
| 5748 | CTRL00900 | NA | NA | NA | NA | GCTTGACTACGGCCCGCACT |
| 5749 | CTRL00901 | NA | NA | NA | NA | GACAAGGGATTCGACGCGTA |
| 5750 | CTRL00902 | NA | NA | NA | NA | GGTCTCCGGTACCGGTATCA |
| 5751 | CTRL00903 | NA | NA | NA | NA | GGTACGTTTGTCATATGCAC |
| 5752 | CTRL00904 | NA | NA | NA | NA | GGCGATACTGTCGTTATGGC |
| 5753 | CTRL00905 | NA | NA | NA | NA | GCTAAGCAAACACCTGTCGT |
| 5754 | CTRL00906 | NA | NA | NA | NA | GCGAGCGATGGGACCGTAAC |
| 5755 | CTRL00907 | NA | NA | NA | NA | GCGATAACTTCCTCACCACT |
| 5756 | CTRL00908 | NA | NA | NA | NA | GATAACGCTACAGTGGTGTC |
| 5757 | CTRL00909 | NA | NA | NA | NA | GTTCCGAAGGGCACACGGTG |
| 5758 | CTRL00910 | NA | NA | NA | NA | GCTGTTGCAACAACGAACAT |
| 5759 | CTRL00911 | NA | NA | NA | NA | GGGTGCTGCGGTACGATCCG |
| 5760 | CTRL00912 | NA | NA | NA | NA | GTTAATGGAGATGAAGCTAC |
| 5761 | CTRL00913 | NA | NA | NA | NA | GGACCTGTTGCAAACTCCGT |
| 5762 | CTRL00914 | NA | NA | NA | NA | GGAGCAGACGTTGAGATGAT |
| 5763 | CTRL00915 | NA | NA | NA | NA | GTGTCGTCAGGCAGTCATCG |
| 5764 | CTRL00916 | NA | NA | NA | NA | GAGACACGTCCCGTTACAAT |
| 5765 | CTRL00917 | NA | NA | NA | NA | GACGAGTACAGCGTCGCGGC |
| 5766 | CTRL00918 | NA | NA | NA | NA | GGTACAAGCCGTACGTGCGC |
| 5767 | CTRL00919 | NA | NA | NA | NA | GAATCGAAGGAATAAGGAGA |
| 5768 | CTRL00920 | NA | NA | NA | NA | GACTTCGAACCTACGTCACA |
| 5769 | CTRL00921 | NA | NA | NA | NA | GCGGCGTATAGATGCCCATA |
| 5770 | CTRL00922 | NA | NA | NA | NA | GATCGCAGGGTTAGAGTATA |
| 5771 | CTRL00923 | NA | NA | NA | NA | GGCCTGTCGAAGGTTCTCGC |
| 5772 | CTRL00924 | NA | NA | NA | NA | GGTGGCAACAAGAAGGGTCG |
| 5773 | CTRL00925 | NA | NA | NA | NA | GTGACCCGTAGATCTCGCAG |
| 5774 | CTRL00926 | NA | NA | NA | NA | GACTACGATACGTGTGCGAT |
| 5775 | CTRL00927 | NA | NA | NA | NA | GTGCGGTAAGGCAGTCCCAT |
| 5776 | CTRL00928 | NA | NA | NA | NA | GCCAGCATGCTACCTCGAAA |
| 5777 | CTRL00929 | NA | NA | NA | NA | GCTGACTCCGTGGGATATAC |
| 5778 | CTRL00930 | NA | NA | NA | NA | GACGTTGCCCGCCTTGCCAA |
| 5779 | CTRL00931 | NA | NA | NA | NA | GCCTCTTTGCATACAAAGCG |
| 5780 | CTRL00932 | NA | NA | NA | NA | GCCGCCTACGAGATTCTATG |
| 5781 | CTRL00933 | NA | NA | NA | NA | GTAGCACATGGCGACTCTTA |
| 5782 | CTRL00934 | NA | NA | NA | NA | GGTCCCGGTAATATGCGAAG |
| 5783 | CTRL00935 | NA | NA | NA | NA | GTCCGGAACTTTGGGATACG |
| 5784 | CTRL00936 | NA | NA | NA | NA | GGCTCAACGGACTGTCACGG |
| 5785 | CTRL00937 | NA | NA | NA | NA | GTTAAGGAAGGTCGCTGCGA |
| 5786 | CTRL00938 | NA | NA | NA | NA | GTTAGCCATCAGGTCGGAGC |
| 5787 | CTRL00939 | NA | NA | NA | NA | GGAATGCAAACGGCTGCGAC |
| 5788 | CTRL00940 | NA | NA | NA | NA | GAACTTGACGACGTAAGAGA |
| 5789 | CTRL00941 | NA | NA | NA | NA | GATATCGGACCGACCGATAC |
| 5790 | CTRL00942 | NA | NA | NA | NA | GAAGGGCGAGTACAGGCGAT |
| 5791 | CTRL00943 | NA | NA | NA | NA | GGGTTGCAGCCTGATGTATA |
| 5792 | CTRL00944 | NA | NA | NA | NA | GCTTGTTGACTCGCAGCGAA |
| 5793 | CTRL00945 | NA | NA | NA | NA | GCTCGGAACCCTCTTCCGAA |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5794 | CTRL00946 | NA | NA | NA | NA | GACCAGTCCGCGCTACGAGT |
| 5795 | CTRL00947 | NA | NA | NA | NA | GCTGCCGGGACCGCTCTATC |
| 5796 | CTRL00948 | NA | NA | NA | NA | GCGACTAAGACCGGCTCACG |
| 5797 | CTRL00949 | NA | NA | NA | NA | GACCGTCTCGCAAACGTATA |
| 5798 | CTRL00950 | NA | NA | NA | NA | GCATGTCGAAACGGGCGCAC |
| 5799 | CTRL00951 | NA | NA | NA | NA | GGGCCGCCCAATGAAGCGAT |
| 5800 | CTRL00952 | NA | NA | NA | NA | GCTGAAGCACTAACGCATAA |
| 5801 | CTRL00953 | NA | NA | NA | NA | GGCGTTGTGATCGCACCTGC |
| 5802 | CTRL00954 | NA | NA | NA | NA | GTATATACCGGACAGCCCAT |
| 5803 | CTRL00955 | NA | NA | NA | NA | GCAGCGCGGCTTAGTTATGG |
| 5804 | CTRL00956 | NA | NA | NA | NA | GATTGAACGGCCAATTCGAC |
| 5805 | CTRL00957 | NA | NA | NA | NA | GGGATACATCTGGATCGGCG |
| 5806 | CTRL00958 | NA | NA | NA | NA | GGGATGGGAACCTGTACCGC |
| 5807 | CTRL00959 | NA | NA | NA | NA | GGCGCGAAGCGCTTATCGGC |
| 5808 | CTRL00960 | NA | NA | NA | NA | GTATCCGTGCGCTGGTACAG |
| 5809 | CTRL00961 | NA | NA | NA | NA | GGAAAGCCTACGCCTGCGCC |
| 5810 | CTRL00962 | NA | NA | NA | NA | GTGTGCTCGGACTTTCGTAG |
| 5811 | CTRL00963 | NA | NA | NA | NA | GGTTAACTATGCCACTAGTA |
| 5812 | CTRL00964 | NA | NA | NA | NA | GGGCCTGCTTACCGTACCGT |
| 5813 | CTRL00965 | NA | NA | NA | NA | GAACTGGTTCATACACTGAG |
| 5814 | CTRL00966 | NA | NA | NA | NA | GCGACGGTGACTTATTTCGA |
| 5815 | CTRL00967 | NA | NA | NA | NA | GTGCCGAACCCTTTCCGTCG |
| 5816 | CTRL00968 | NA | NA | NA | NA | GGCAACCCAAACTATACGAA |
| 5817 | CTRL00969 | NA | NA | NA | NA | GACCCGGGCACCAACTGGTT |
| 5818 | CTRL00970 | NA | NA | NA | NA | GACGGTAAATCCCGGACGGA |
| 5819 | CTRL00971 | NA | NA | NA | NA | GGCCAATATCGCGAATGTAC |
| 5820 | CTRL00972 | NA | NA | NA | NA | GCGGCGGCGCGAGTTATAAG |
| 5821 | CTRL00973 | NA | NA | NA | NA | GCGATCCCATTCCGTAGAAT |
| 5822 | CTRL00974 | NA | NA | NA | NA | GTCGCCACGGTCAGACTACG |
| 5823 | CTRL00975 | NA | NA | NA | NA | GTCGTGTAGGACTGGAAGAC |
| 5824 | CTRL00976 | NA | NA | NA | NA | GACCGACCGTAAGGTTCTTT |
| 5825 | CTRL00977 | NA | NA | NA | NA | GACAAGTTTCGGCCCTAAGC |
| 5826 | CTRL00978 | NA | NA | NA | NA | GATCATCCGCTCCTACATCA |
| 5827 | CTRL00979 | NA | NA | NA | NA | GAACTGCGGTGGAAACACGA |
| 5828 | CTRL00980 | NA | NA | NA | NA | GACGCCTTGACCGGTCTGCA |
| 5829 | CTRL00981 | NA | NA | NA | NA | GGGCTTATGCGGACTAAGGT |
| 5830 | CTRL00982 | NA | NA | NA | NA | GTAAACCCGGTTAGACCTTA |
| 5831 | CTRL00983 | NA | NA | NA | NA | GTAAAGCGTAGAACCAAGCG |
| 5832 | CTRL00984 | NA | NA | NA | NA | GTCGGCTATACTCGGACGGT |
| 5833 | CTRL00985 | NA | NA | NA | NA | GCGTAAAGAGTACGAAGTCA |
| 5834 | CTRL00986 | NA | NA | NA | NA | GCCGAGTAGGAAATTCGGGT |
| 5835 | CTRL00987 | NA | NA | NA | NA | GCTTCCCGACGGGAATATAC |
| 5836 | CTRL00988 | NA | NA | NA | NA | GCTTTGATTATAGCCGAGAT |
| 5837 | CTRL00989 | NA | NA | NA | NA | GCGGAGCGTCTATACAATTG |
| 5838 | CTRL00990 | NA | NA | NA | NA | GGAACCACCTTCCGCCGAAC |
| 5839 | CTRL00991 | NA | NA | NA | NA | GCCCTGTCCGTGGAACCAAC |
| 5840 | CTRL00992 | NA | NA | NA | NA | GTACGCAAATTCGAGCTACA |
| 5841 | CTRL00993 | NA | NA | NA | NA | GGGTGCGTAAGTACGGCTTA |
| 5842 | CTRL00994 | NA | NA | NA | NA | GAAGTTATATACTGTTCCGC |
| 5843 | CTRL00995 | NA | NA | NA | NA | GCCAGTGGTAAATCCCGATA |
| 5844 | CTRL00996 | NA | NA | NA | NA | GGTCTTGCTAGTGAGTACGG |
| 5845 | CTRL00997 | NA | NA | NA | NA | GAGTGATGGTACCAGCCCGT |
| 5846 | CTRL00998 | NA | NA | NA | NA | GGCTTACCTAAATTGGAGGT |
| 5847 | CTRL00999 | NA | NA | NA | NA | GATATCCTCTGTCGAGGAGC |
| 5848 | CTRL01000 | NA | NA | NA | NA | GGACCAAGTCGTCGATCTTA |
| 5849 | CTRL01001 | NA | NA | NA | NA | GTGTCAACGGAGAATGGTCA |
| 5850 | CTRL01002 | NA | NA | NA | NA | GACGAGTCGATTATGAGCGG |
| 5851 | CTRL01003 | NA | NA | NA | NA | GATACGCTCTCGCCCTTCCC |
| 5852 | CTRL01004 | NA | NA | NA | NA | GCTAGCTAGTCTCGCGGGCA |

**Supplemental Table S2. Result of MAGeCK test of Mouse #1**

| id | num | Rank | neg\|score | neg\|p-value | neg\|fdr | neg\|rank | neg\|goodsgrna | neg\|lfc | Rank2 | pos\|score | pos\|p-value | pos\|fdr | pos\|rank | pos\|goodsgrna | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P4HTM | 10 | 1 | 6.28E-05 | 0.00050204 | 0.111905 | 1 | 7 | -4.3876 | 383 | 0.69726 | 0.86325 | 0.99915 | 383 | 3 | -4.3876 |
| CIAO1 | 10 | 2 | 9.12E-05 | 0.00064122 | 0.111905 | 2 | 9 | -4.1746 | 460 | 0.97521 | 0.97844 | 0.99915 | 460 | 1 | -4.1746 |
| FDXR | 10 | 3 | 9.71E-05 | 0.00070086 | 0.111905 | 3 | 9 | -4.184 | 464 | 0.97981 | 0.98136 | 0.99915 | 464 | 1 | -4.184 |
| ATP6AP1 | 10 | 4 | 0.00024365 | 0.0019137 | 0.22619 | 4 | 10 | -4.3322 | 479 | 0.99907 | 0.99915 | 0.99915 | 479 | 0 | -4.3322 |
| THAP4 | 10 | 5 | 0.00029842 | 0.0023611 | 0.22619 | 5 | 9 | -4.3618 | 470 | 0.98675 | 0.98673 | 0.99915 | 470 | 1 | -4.3618 |
| POLA1 | 10 | 6 | 0.00045272 | 0.0033552 | 0.267857 | 6 | 8 | -4.468 | 406 | 0.76453 | 0.89738 | 0.99915 | 406 | 2 | -4.468 |
| RTEL1 | 10 | 7 | 0.00063106 | 0.0047271 | 0.323469 | 7 | 9 | -4.011 | 477 | 0.99784 | 0.99789 | 0.99915 | 477 | 0 | -4.011 |
| FLVCR2 | 10 | 8 | 0.00086666 | 0.0063674 | 0.379437 | 8 | 5 | -1.7168 | 414 | 0.81908 | 0.91648 | 0.99915 | 414 | 2 | -1.7168 |
| NDUFV1 | 10 | 9 | 0.0010406 | 0.0076896 | 0.379437 | 9 | 9 | -4.2922 | 475 | 0.99502 | 0.9953 | 0.99915 | 475 | 0 | -4.2922 |
| METAP1 | 10 | 10 | 0.0011458 | 0.0083259 | 0.379437 | 10 | 4 | 1.6833 | 25 | 0.01622 | 0.072378 | 0.99915 | 25 | 5 | 1.6833 |
| PRC1 | 10 | 11 | 0.0012219 | 0.0087136 | 0.379437 | 11 | 7 | -4.454 | 457 | 0.96126 | 0.97176 | 0.99915 | 457 | 1 | -4.454 |
| LIAS | 10 | 12 | 0.0015316 | 0.010374 | 0.39747 | 12 | 7 | -4.4575 | 163 | 0.15677 | 0.38454 | 0.99915 | 163 | 3 | -4.4575 |
| SLC39A6 | 10 | 13 | 0.0016963 | 0.011418 | 0.39747 | 13 | 8 | -3.8354 | 428 | 0.86656 | 0.9358 | 0.99915 | 428 | 2 | -3.8354 |
| FDX1L | 10 | 14 | 0.0017884 | 0.011905 | 0.39747 | 14 | 7 | -4.215 | 300 | 0.44915 | 0.70873 | 0.99915 | 300 | 3 | -4.215 |
| PPP3CB | 10 | 15 | 0.0019354 | 0.01278 | 0.39747 | 15 | 3 | 0.96839 | 226 | 0.28644 | 0.55836 | 0.99915 | 226 | 3 | 0.96839 |
| ISCA2 | 10 | 16 | 0.0020079 | 0.013277 | 0.39747 | 16 | 9 | -3.7639 | 474 | 0.99447 | 0.9948 | 0.99915 | 474 | 0 | -3.7639 |
| ERCC2 | 10 | 17 | 0.0023099 | 0.015275 | 0.403024 | 17 | 8 | -4.3313 | 468 | 0.98443 | 0.98475 | 0.99915 | 468 | 1 | -4.3313 |
| ASPH | 10 | 18 | 0.002598 | 0.016826 | 0.403024 | 18 | 4 | 0.4427 | 267 | 0.37665 | 0.64304 | 0.99915 | 267 | 4 | 0.4427 |
| KDM4B | 10 | 19 | 0.0026969 | 0.017402 | 0.403024 | 19 | 6 | -2.6056 | 452 | 0.92217 | 0.9616 | 0.99915 | 452 | 1 | -2.6056 |
| GSTP1 | 10 | 20 | 0.0027897 | 0.017919 | 0.403024 | 20 | 8 | -4.02 | 450 | 0.91623 | 0.96019 | 0.99915 | 450 | 1 | -4.02 |
| ELP3 | 10 | 21 | 0.0031511 | 0.019788 | 0.403024 | 21 | 9 | -4.3149 | 384 | 0.7002 | 0.86484 | 0.99915 | 384 | 1 | -4.3149 |
| CYP4F22 | 10 | 22 | 0.0032498 | 0.020255 | 0.403024 | 22 | 7 | -4.2267 | 207 | 0.24502 | 0.5145 | 0.99915 | 207 | 3 | -4.2267 |
| ABCB7 | 10 | 23 | 0.0032687 | 0.020395 | 0.403024 | 23 | 8 | -4.0767 | 458 | 0.97028 | 0.97564 | 0.99915 | 458 | 1 | -4.0767 |
| ABCE1 | 10 | 24 | 0.0034407 | 0.021528 | 0.403024 | 24 | 8 | -4.4215 | 386 | 0.70601 | 0.86804 | 0.99915 | 386 | 1 | -4.4215 |
| UQCRFS1 | 10 | 25 | 0.0036366 | 0.022492 | 0.403024 | 25 | 9 | -4.3045 | 461 | 0.97655 | 0.97916 | 0.99915 | 461 | 1 | -4.3045 |
| GRXCR1 | 10 | 26 | 0.0037151 | 0.02288 | 0.403024 | 26 | 6 | -4.0165 | 47 | 0.026554 | 0.10839 | 0.99915 | 47 | 2 | -4.0165 |
| APBB1 | 10 | 27 | 0.0039725 | 0.024252 | 0.403024 | 27 | 6 | -4.1987 | 140 | 0.12051 | 0.32588 | 0.99915 | 140 | 3 | -4.1987 |
| PHYHD1 | 10 | 28 | 0.0040628 | 0.024729 | 0.403024 | 28 | 9 | -3.8435 | 478 | 0.99825 | 0.9984 | 0.99915 | 478 | 0 | -3.8435 |
| PER1 | 10 | 29 | 0.0041848 | 0.025256 | 0.403024 | 29 | 7 | -4.283 | 349 | 0.60388 | 0.80872 | 0.99915 | 349 | 3 | -4.283 |
| AOX1 | 10 | 30 | 0.0043266 | 0.025902 | 0.403024 | 30 | 6 | -1.3 | 240 | 0.31217 | 0.5837 | 0.99915 | 240 | 4 | -1.3 |
| NFS1 | 10 | 31 | 0.0047629 | 0.028388 | 0.403024 | 31 | 7 | -4.2053 | 393 | 0.719 | 0.8757 | 0.99915 | 393 | 2 | -4.2053 |
| TYW5 | 10 | 32 | 0.0048105 | 0.028586 | 0.403024 | 32 | 4 | 0.41785 | 370 | 0.67303 | 0.84913 | 0.99915 | 370 | 3 | 0.41785 |
| DPH1 | 10 | 33 | 0.0049591 | 0.029362 | 0.403024 | 33 | 9 | -3.786 | 467 | 0.98372 | 0.98417 | 0.99915 | 467 | 1 | -3.786 |
| NDUFS1 | 10 | 34 | 0.0051802 | 0.030505 | 0.403024 | 34 | 6 | -4.2664 | 235 | 0.29882 | 0.57078 | 0.99915 | 235 | 2 | -4.2664 |
| HPX | 10 | 35 | 0.005265 | 0.030893 | 0.403024 | 35 | 9 | -2.0423 | 453 | 0.92625 | 0.9624 | 0.99915 | 453 | 1 | -2.0423 |
| KDM8 | 10 | 36 | 0.0052723 | 0.030903 | 0.403024 | 36 | 5 | 0.44943 | 272 | 0.38819 | 0.6538 | 0.99915 | 272 | 4 | 0.44943 |
| HCCS | 10 | 37 | 0.0053244 | 0.031131 | 0.403024 | 37 | 7 | -3.5812 | 308 | 0.45981 | 0.7181 | 0.99915 | 308 | 2 | -3.5812 |
| CYCS | 10 | 38 | 0.005548 | 0.032404 | 0.408459 | 38 | 7 | -3.457 | 278 | 0.41131 | 0.67475 | 0.99915 | 278 | 3 | -3.457 |
| UQCRC2 | 10 | 39 | 0.0057656 | 0.033547 | 0.412027 | 39 | 6 | -4.2979 | 432 | 0.88397 | 0.94397 | 0.99915 | 432 | 1 | -4.2979 |
| BLVRB | 10 | 40 | 0.0070095 | 0.040446 | 0.484345 | 40 | 7 | -1.6328 | 141 | 0.12244 | 0.32957 | 0.99915 | 141 | 3 | -1.6328 |
| NARFL | 10 | 41 | 0.0073773 | 0.042395 | 0.495296 | 41 | 6 | -2.0945 | 222 | 0.28262 | 0.55485 | 0.99915 | 222 | 2 | -2.0945 |
| CYC1 | 10 | 42 | 0.0082272 | 0.046958 | 0.535544 | 42 | 7 | -3.8213 | 389 | 0.71102 | 0.87088 | 0.99915 | 389 | 3 | -3.8213 |
| CYP27B1 | 10 | 43 | 0.0085295 | 0.048578 | 0.537946 | 43 | 8 | -3.7945 | 442 | 0.90074 | 0.95195 | 0.99915 | 442 | 1 | -3.7945 |
| ALKBH5 | 10 | 44 | 0.0087151 | 0.049652 | 0.537946 | 44 | 7 | -3.932 | 254 | 0.33735 | 0.60778 | 0.99915 | 254 | 3 | -3.932 |
| NDOR1 | 10 | 45 | 0.0091387 | 0.05175 | 0.537946 | 45 | 8 | -4.1936 | 447 | 0.91105 | 0.95716 | 0.99915 | 447 | 2 | -4.1936 |
| JHDM1D | 10 | 46 | 0.0092298 | 0.052217 | 0.537946 | 46 | 7 | -3.9958 | 365 | 0.66026 | 0.84114 | 0.99915 | 365 | 2 | -3.9958 |
| CYP11A1 | 10 | 47 | 0.0094962 | 0.053609 | 0.537946 | 47 | 7 | -3.6565 | 381 | 0.69357 | 0.86123 | 0.99915 | 381 | 3 | -3.6565 |
| C16orf52 | 10 | 48 | 0.0095536 | 0.053907 | 0.537946 | 48 | 4 | 0.64808 | 290 | 0.427 | 0.68907 | 0.99915 | 290 | 3 | 0.64808 |
| HBM | 10 | 49 | 0.010177 | 0.057367 | 0.560787 | 49 | 7 | -3.8933 | 328 | 0.51765 | 0.75971 | 0.99915 | 328 | 2 | -3.8933 |
| DDX11 | 10 | 50 | 0.010848 | 0.060717 | 0.573653 | 50 | 6 | -2.9322 | 346 | 0.59585 | 0.80408 | 0.99915 | 346 | 2 | -2.9322 |
| CA6 | 10 | 51 | 0.011214 | 0.062128 | 0.573653 | 51 | 6 | -2.5795 | 286 | 0.42081 | 0.68339 | 0.99915 | 286 | 3 | -2.5795 |
| PXDNL | 10 | 52 | 0.012073 | 0.065797 | 0.573653 | 52 | 7 | -4.0558 | 401 | 0.75036 | 0.89309 | 0.99915 | 401 | 2 | -4.0558 |
| NUBP2 | 10 | 53 | 0.012096 | 0.065856 | 0.573653 | 53 | 5 | -1.3905 | 187 | 0.19505 | 0.44259 | 0.99915 | 187 | 4 | -1.3905 |
| FDX1 | 10 | 54 | 0.012246 | 0.066443 | 0.573653 | 54 | 8 | -4.1849 | 403 | 0.75541 | 0.89453 | 0.99915 | 403 | 1 | -4.1849 |
| HBE1 | 10 | 55 | 0.012929 | 0.068998 | 0.573653 | 55 | 4 | 2.108 | 96 | 0.071957 | 0.22683 | 0.99915 | 96 | 6 | 2.108 |
| CLSTN3 | 10 | 56 | 0.013071 | 0.069624 | 0.573653 | 56 | 6 | -4.1073 | 376 | 0.68028 | 0.85334 | 0.99915 | 376 | 2 | -4.1073 |
| METAP2 | 10 | 57 | 0.013076 | 0.069654 | 0.573653 | 57 | 8 | -3.8542 | 449 | 0.91612 | 0.96015 | 0.99915 | 449 | 2 | -3.8542 |
| RSBN1 | 10 | 58 | 0.013371 | 0.070797 | 0.573653 | 58 | 7 | -4.0216 | 411 | 0.80451 | 0.91066 | 0.99915 | 411 | 2 | -4.0216 |
| CYP46A1 | 10 | 59 | 0.013727 | 0.072189 | 0.573653 | 59 | 8 | -3.9632 | 402 | 0.75116 | 0.89332 | 0.99915 | 402 | 2 | -3.9632 |
| SLC39A14 | 10 | 60 | 0.013948 | 0.073004 | 0.573653 | 60 | 8 | -3.8785 | 181 | 0.18541 | 0.4278 | 0.99915 | 181 | 2 | -3.8785 |
| HSCB | 10 | 61 | 0.013975 | 0.073054 | 0.573653 | 61 | 7 | -2.5792 | 465 | 0.98212 | 0.98289 | 0.99915 | 465 | 1 | -2.5792 |
| PPAT | 10 | 62 | 0.01604 | 0.081285 | 0.602933 | 62 | 7 | -3.9501 | 424 | 0.85586 | 0.93114 | 0.99915 | 424 | 2 | -3.9501 |
| BCMO1 | 10 | 63 | 0.016351 | 0.082449 | 0.602933 | 63 | 5 | -1.0819 | 392 | 0.71843 | 0.87543 | 0.99915 | 392 | 3 | -1.0819 |
| RSBN1L | 10 | 64 | 0.016927 | 0.084496 | 0.602933 | 64 | 7 | -1.5148 | 441 | 0.9003 | 0.9517 | 0.99915 | 441 | 1 | -1.5148 |
| ACO2 | 10 | 65 | 0.017025 | 0.084894 | 0.602933 | 65 | 8 | -3.9611 | 455 | 0.93489 | 0.96419 | 0.99915 | 455 | 1 | -3.9611 |
| TMEM199 | 10 | 66 | 0.017522 | 0.086574 | 0.602933 | 66 | 5 | -1.5596 | 294 | 0.43324 | 0.69454 | 0.99915 | 294 | 4 | -1.5596 |
| MIPEP | 10 | 67 | 0.017573 | 0.086733 | 0.602933 | 67 | 7 | -4.0464 | 313 | 0.47376 | 0.73067 | 0.99915 | 313 | 3 | -4.0464 |
| DGCR8 | 10 | 68 | 0.017956 | 0.088185 | 0.602933 | 68 | 7 | -3.8851 | 335 | 0.54423 | 0.77401 | 0.99915 | 335 | 3 | -3.8851 |
| METAP1D | 10 | 69 | 0.018059 | 0.088503 | 0.602933 | 69 | 5 | -0.12692 | 186 | 0.19465 | 0.44193 | 0.99915 | 186 | 2 | -0.12692 |
| CYP1B1 | 10 | 70 | 0.018294 | 0.089477 | 0.602933 | 70 | 7 | -2.7597 | 416 | 0.82373 | 0.9181 | 0.99915 | 416 | 2 | -2.7597 |
| POLD1 | 10 | 71 | 0.018329 | 0.089547 | 0.602933 | 71 | 8 | -2.4929 | 472 | 0.99215 | 0.99244 | 0.99915 | 472 | 0 | -2.4929 |
| SLC39A7 | 10 | 72 | 0.018813 | 0.091445 | 0.602933 | 72 | 8 | -3.461 | 125 | 0.10481 | 0.29942 | 0.99915 | 125 | 2 | -3.461 |
| FECH | 10 | 73 | 0.018979 | 0.092072 | 0.602933 | 73 | 7 | -4.1007 | 396 | 0.74029 | 0.88843 | 0.99915 | 396 | 2 | -4.1007 |
| NDUFS2 | 10 | 74 | 0.020028 | 0.096187 | 0.602933 | 74 | 6 | -4.0146 | 205 | 0.24322 | 0.51181 | 0.99915 | 205 | 3 | -4.0146 |
| ATP6V1A | 10 | 75 | 0.020653 | 0.098514 | 0.602933 | 75 | 8 | -3.74 | 448 | 0.91159 | 0.95748 | 0.99915 | 448 | 2 | -3.74 |
| EGLN1 | 10 | 76 | 0.020707 | 0.098723 | 0.602933 | 76 | 6 | -4.0314 | 359 | 0.64781 | 0.83366 | 0.99915 | 359 | 2 | -4.0314 |
| KAT5 | 10 | 77 | 0.020716 | 0.098762 | 0.602933 | 77 | 5 | -1.057 | 373 | 0.67686 | 0.85135 | 0.99915 | 373 | 3 | -1.057 |
| COQ7 | 10 | 78 | 0.020854 | 0.099349 | 0.602933 | 78 | 6 | -3.4912 | 463 | 0.97897 | 0.98078 | 0.99915 | 463 | 1 | -3.4912 |
| STEAP1 | 10 | 79 | 0.020938 | 0.099617 | 0.602933 | 79 | 6 | -2.6116 | 309 | 0.4607 | 0.71897 | 0.99915 | 309 | 4 | -2.6116 |
| GUCY1A2 | 10 | 80 | 0.021465 | 0.10162 | 0.602933 | 80 | 6 | -1.3189 | 262 | 0.36917 | 0.63611 | 0.99915 | 262 | 4 | -1.3189 |
| EXO5 | 10 | 81 | 0.021861 | 0.10311 | 0.602933 | 81 | 8 | -3.7575 | 405 | 0.76169 | 0.89633 | 0.99915 | 405 | 2 | -3.7575 |
| ACP5 | 10 | 82 | 0.021914 | 0.10322 | 0.602933 | 82 | 5 | -1.1857 | 367 | 0.66443 | 0.84363 | 0.99915 | 367 | 3 | -1.1857 |
| IBA57 | 10 | 83 | 0.022925 | 0.10687 | 0.616781 | 83 | 7 | -3.952 | 476 | 0.99783 | 0.99788 | 0.99915 | 476 | 0 | -3.952 |
| DPH3 | 10 | 84 | 0.023534 | 0.10916 | 0.618582 | 84 | 8 | -4.0202 | 407 | 0.77831 | 0.90169 | 0.99915 | 407 | 2 | -4.0202 |
| NUBP1 | 10 | 85 | 0.023747 | 0.11004 | 0.618582 | 85 | 7 | -4.1017 | 337 | 0.54823 | 0.77613 | 0.99915 | 337 | 1 | -4.1017 |
| CYP2B6 | 10 | 86 | 0.024395 | 0.11234 | 0.618582 | 86 | 6 | -3.9101 | 431 | 0.88347 | 0.94374 | 0.99915 | 431 | 1 | -3.9101 |
| COX10 | 10 | 87 | 0.024397 | 0.11235 | 0.618582 | 87 | 4 | 0.44312 | 233 | 0.29676 | 0.56862 | 0.99915 | 233 | 3 | 0.44312 |
| SDHC | 10 | 88 | 0.024763 | 0.11366 | 0.618696 | 88 | 4 | 0.748 | 216 | 0.26 | 0.53379 | 0.99915 | 216 | 3 | 0.748 |
| CYB5B | 10 | 89 | 0.025898 | 0.11767 | 0.633307 | 89 | 8 | -3.1428 | 234 | 0.29747 | 0.56927 | 0.99915 | 234 | 2 | -3.1428 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TSHZ3 | 10 | 90 | 0.026662 | 0.12025 | 0.633825 | 90 | 5 | -0.14356 | 93 | 0.062638 | 0.20468 | 0.99915 | 93 | 2 | -0.14356 |
| PHF2 | 10 | 91 | 0.026856 | 0.12105 | 0.633825 | 91 | 8 | -2.4633 | 445 | 0.90746 | 0.95517 | 0.99915 | 445 | 1 | -2.4633 |
| SDHB | 10 | 92 | 0.027036 | 0.12174 | 0.633825 | 92 | 3 | 0.53902 | 84 | 0.058238 | 0.19372 | 0.99915 | 84 | 3 | 0.53902 |
| MYLIP | 10 | 93 | 0.02908 | 0.12911 | 0.663765 | 93 | 8 | -3.6575 | 427 | 0.86641 | 0.93571 | 0.99915 | 427 | 2 | -3.6575 |
| RORC | 10 | 94 | 0.029751 | 0.13162 | 0.663765 | 94 | 6 | -4.0124 | 253 | 0.33485 | 0.60547 | 0.99915 | 253 | 4 | -4.0124 |
| MINA | 10 | 95 | 0.029909 | 0.13217 | 0.663765 | 95 | 7 | -3.4947 | 382 | 0.69725 | 0.86325 | 0.99915 | 382 | 2 | -3.4947 |
| CH25H | 10 | 96 | 0.030131 | 0.13303 | 0.663765 | 96 | 8 | -2.8252 | 454 | 0.93309 | 0.96383 | 0.99915 | 454 | 1 | -2.8252 |
| ALOX5 | 10 | 97 | 0.030563 | 0.13451 | 0.664237 | 97 | 6 | -0.97088 | 108 | 0.086216 | 0.26053 | 0.99915 | 108 | 3 | -0.97088 |
| P4HA2 | 10 | 98 | 0.03162 | 0.13824 | 0.672151 | 98 | 7 | -1.3286 | 219 | 0.2678 | 0.54114 | 0.99915 | 219 | 3 | -1.3286 |
| SOD2 | 10 | 99 | 0.032805 | 0.14239 | 0.672151 | 99 | 7 | -3.9365 | 302 | 0.45283 | 0.71208 | 0.99915 | 302 | 3 | -3.9365 |
| HPD | 10 | 100 | 0.033499 | 0.14462 | 0.672151 | 100 | 7 | -3.6326 | 471 | 0.98973 | 0.9898 | 0.99915 | 471 | 0 | -3.6326 |
| HGD | 10 | 101 | 0.033518 | 0.14466 | 0.672151 | 101 | 6 | -3.3994 | 160 | 0.15443 | 0.38087 | 0.99915 | 160 | 4 | -3.3994 |
| KDM5C | 10 | 102 | 0.03432 | 0.14759 | 0.672151 | 102 | 7 | -3.2278 | 419 | 0.83275 | 0.92181 | 0.99915 | 419 | 2 | -3.2278 |
| KDM4A | 10 | 103 | 0.034984 | 0.14984 | 0.672151 | 103 | 3 | 1.3552 | 15 | 0.0077757 | 0.038717 | 0.99915 | 15 | 4 | 1.3552 |
| NDUFS7 | 10 | 104 | 0.036066 | 0.15319 | 0.672151 | 104 | 5 | -1.7802 | 53 | 0.030948 | 0.12155 | 0.99915 | 53 | 3 | -1.7802 |
| OGFOD1 | 10 | 105 | 0.036203 | 0.15362 | 0.672151 | 105 | 8 | -3.5318 | 243 | 0.31425 | 0.58582 | 0.99915 | 243 | 2 | -3.5318 |
| LEPRE1 | 10 | 106 | 0.036218 | 0.15368 | 0.672151 | 106 | 5 | -1.9329 | 350 | 0.61421 | 0.8141 | 0.99915 | 350 | 2 | -1.9329 |
| ALKBH1 | 10 | 107 | 0.036351 | 0.15408 | 0.672151 | 107 | 7 | -3.2113 | 357 | 0.64064 | 0.82948 | 0.99915 | 357 | 3 | -3.2113 |
| GLRX5 | 10 | 108 | 0.036662 | 0.15506 | 0.672151 | 108 | 6 | -3.3136 | 251 | 0.32759 | 0.59899 | 0.99915 | 251 | 4 | -3.3136 |
| RPE65 | 10 | 109 | 0.038169 | 0.16008 | 0.672151 | 109 | 6 | -3.8469 | 379 | 0.69249 | 0.86067 | 0.99915 | 379 | 2 | -3.8469 |
| BOLA1 | 10 | 110 | 0.038442 | 0.16091 | 0.672151 | 110 | 6 | -3.4779 | 324 | 0.49562 | 0.74791 | 0.99915 | 324 | 3 | -3.4779 |
| SLC40A1 | 10 | 111 | 0.038782 | 0.16204 | 0.672151 | 111 | 7 | -3.2599 | 469 | 0.98503 | 0.98521 | 0.99915 | 469 | 1 | -3.2599 |
| GALT | 10 | 112 | 0.038827 | 0.16215 | 0.672151 | 112 | 6 | -3.7061 | 55 | 0.03162 | 0.12363 | 0.99915 | 55 | 2 | -3.7061 |
| MPO | 10 | 113 | 0.039485 | 0.16419 | 0.672151 | 113 | 7 | -3.5308 | 320 | 0.48712 | 0.74123 | 0.99915 | 320 | 1 | -3.5308 |
| HRG | 10 | 114 | 0.0395 | 0.1642 | 0.672151 | 114 | 5 | -0.52751 | 198 | 0.22725 | 0.48922 | 0.99915 | 198 | 5 | -0.52751 |
| APBA1 | 10 | 115 | 0.04001 | 0.1659 | 0.672151 | 115 | 5 | 0.12811 | 49 | 0.028245 | 0.11389 | 0.99915 | 49 | 3 | 0.12811 |
| NDUFS8 | 10 | 116 | 0.040379 | 0.16695 | 0.672151 | 116 | 8 | -3.5482 | 223 | 0.28274 | 0.55502 | 0.99915 | 223 | 2 | -3.5482 |
| ALB | 10 | 117 | 0.04077 | 0.16819 | 0.672151 | 117 | 3 | 0.7561 | 250 | 0.3272 | 0.59858 | 0.99915 | 250 | 3 | 0.7561 |
| OSGEP | 10 | 118 | 0.040797 | 0.16829 | 0.672151 | 118 | 7 | -1.1927 | 256 | 0.33974 | 0.61002 | 0.99915 | 256 | 1 | -1.1927 |
| TET2 | 10 | 119 | 0.041126 | 0.1693 | 0.672151 | 119 | 7 | -3.2598 | 433 | 0.88887 | 0.94639 | 0.99915 | 433 | 1 | -3.2598 |
| ABCG2 | 10 | 120 | 0.041456 | 0.17033 | 0.672151 | 120 | 5 | 0.79537 | 16 | 0.0084305 | 0.04161 | 0.99915 | 16 | 5 | 0.79537 |
| FTL | 10 | 121 | 0.041558 | 0.17071 | 0.672151 | 121 | 4 | 0.79954 | 14 | 0.0062249 | 0.032165 | 0.99915 | 14 | 4 | 0.79954 |
| JMJD6 | 10 | 122 | 0.04168 | 0.17119 | 0.672151 | 122 | 5 | -0.52112 | 321 | 0.48855 | 0.74244 | 0.99915 | 321 | 4 | -0.52112 |
| MB | 10 | 123 | 0.043348 | 0.17694 | 0.684773 | 123 | 5 | -0.48024 | 420 | 0.84127 | 0.92515 | 0.99915 | 420 | 1 | -0.48024 |
| SLC25A28 | 10 | 124 | 0.043441 | 0.17727 | 0.684773 | 124 | 7 | -3.8226 | 413 | 0.81751 | 0.91593 | 0.99915 | 413 | 2 | -3.8226 |
| PAPL | 10 | 125 | 0.0447 | 0.1814 | 0.693519 | 125 | 4 | 1.7503 | 18 | 0.0091387 | 0.044622 | 0.99915 | 18 | 5 | 1.7503 |
| SCARA5 | 10 | 126 | 0.045012 | 0.18243 | 0.693519 | 126 | 5 | -0.27608 | 264 | 0.37354 | 0.64026 | 0.99915 | 264 | 3 | -0.27608 |
| SLC39A5 | 10 | 127 | 0.045485 | 0.18401 | 0.694019 | 127 | 8 | -3.7595 | 358 | 0.64577 | 0.83245 | 0.99915 | 358 | 2 | -3.7595 |
| CYP3A5 | 10 | 128 | 0.046675 | 0.18785 | 0.702958 | 128 | 5 | -0.99027 | 168 | 0.16406 | 0.39568 | 0.99915 | 168 | 4 | -0.99027 |
| SLC39A11 | 10 | 129 | 0.048334 | 0.19348 | 0.709542 | 129 | 4 | 2.1098 | 73 | 0.046675 | 0.16376 | 0.99915 | 73 | 5 | 2.1098 |
| FTO | 10 | 130 | 0.048447 | 0.19384 | 0.709542 | 130 | 6 | -3.2237 | 385 | 0.70336 | 0.86666 | 0.99915 | 385 | 3 | -3.2237 |
| CIAPIN1 | 10 | 131 | 0.048495 | 0.19405 | 0.709542 | 131 | 6 | -0.96519 | 203 | 0.24127 | 0.50889 | 0.99915 | 203 | 4 | -0.96519 |
| SLC11A2 | 10 | 132 | 0.050187 | 0.19934 | 0.723359 | 132 | 5 | -1.3333 | 33 | 0.020014 | 0.085978 | 0.99915 | 33 | 4 | -1.3333 |
| COQ6 | 10 | 133 | 0.050799 | 0.20101 | 0.723935 | 133 | 6 | -3.716 | 352 | 0.61833 | 0.81656 | 0.99915 | 352 | 3 | -3.716 |
| ALKBH7 | 10 | 134 | 0.051449 | 0.20301 | 0.725675 | 134 | 7 | -2.6257 | 372 | 0.67464 | 0.84999 | 0.99915 | 372 | 2 | -2.6257 |
| HBZ | 10 | 135 | 0.052882 | 0.20758 | 0.730987 | 135 | 8 | -0.92901 | 261 | 0.36898 | 0.63601 | 0.99915 | 261 | 2 | -0.92901 |
| CDK5RAP | 10 | 136 | 0.053298 | 0.20877 | 0.730987 | 136 | 5 | 0.068028 | 41 | 0.023164 | 0.096983 | 0.99915 | 41 | 3 | 0.068028 |
| COX15 | 10 | 137 | 0.053381 | 0.20907 | 0.730987 | 137 | 7 | -3.1704 | 440 | 0.897 | 0.94987 | 0.99915 | 440 | 2 | -3.1704 |
| FTMT | 10 | 138 | 0.054514 | 0.21262 | 0.734926 | 138 | 7 | -2.1891 | 439 | 0.89679 | 0.94978 | 0.99915 | 439 | 2 | -2.1891 |
| KIF4A | 10 | 139 | 0.054687 | 0.21327 | 0.734926 | 139 | 6 | -3.5635 | 126 | 0.10629 | 0.30223 | 0.99915 | 126 | 4 | -3.5635 |
| MARK3 | 10 | 140 | 0.058624 | 0.22315 | 0.745756 | 140 | 6 | -1.2086 | 123 | 0.10167 | 0.29389 | 0.99915 | 123 | 4 | -1.2086 |
| ALKBH4 | 10 | 141 | 0.05896 | 0.22409 | 0.745756 | 141 | 7 | -3.603 | 31 | 0.019547 | 0.084248 | 0.99915 | 31 | 2 | -3.603 |
| REV3L | 10 | 142 | 0.059113 | 0.22442 | 0.745756 | 142 | 6 | -2.3461 | 188 | 0.1975 | 0.44641 | 0.99915 | 188 | 2 | -2.3461 |
| CYP1A1 | 10 | 143 | 0.059252 | 0.22467 | 0.745756 | 143 | 5 | 0.14881 | 315 | 0.47488 | 0.73146 | 0.99915 | 315 | 4 | 0.14881 |
| SP1 | 10 | 144 | 0.059526 | 0.22521 | 0.745756 | 144 | 7 | -2.5173 | 423 | 0.85524 | 0.93098 | 0.99915 | 423 | 1 | -2.5173 |
| UQCRC1 | 10 | 145 | 0.059965 | 0.22647 | 0.745756 | 145 | 7 | -2.943 | 446 | 0.91047 | 0.9569 | 0.99915 | 446 | 1 | -2.943 |
| KDM2B | 10 | 146 | 0.06049 | 0.22764 | 0.745756 | 146 | 6 | -3.59 | 362 | 0.65387 | 0.83715 | 0.99915 | 362 | 2 | -3.59 |
| POLE | 10 | 147 | 0.060945 | 0.22886 | 0.745756 | 147 | 7 | -3.57 | 257 | 0.34473 | 0.6146 | 0.99915 | 257 | 3 | -3.57 |
| CYP2J2 | 10 | 148 | 0.063152 | 0.23426 | 0.758189 | 148 | 6 | -1.8595 | 437 | 0.89517 | 0.94906 | 0.99915 | 437 | 2 | -1.8595 |
| CACNA1C | 10 | 149 | 0.064718 | 0.23808 | 0.759119 | 149 | 7 | -2.9417 | 417 | 0.82502 | 0.91853 | 0.99915 | 417 | 1 | -2.9417 |
| RRM2 | 10 | 150 | 0.065368 | 0.23973 | 0.759119 | 150 | 6 | -2.023 | 204 | 0.24168 | 0.50944 | 0.99915 | 204 | 2 | -2.023 |
| ASPHD2 | 10 | 151 | 0.065907 | 0.24091 | 0.759119 | 151 | 7 | -1.6879 | 378 | 0.6847 | 0.85591 | 0.99915 | 378 | 2 | -1.6879 |
| NIPAL1 | 10 | 152 | 0.06642 | 0.24227 | 0.759119 | 152 | 3 | 3.3974 | 9 | 0.0023477 | 0.013575 | 0.722487 | 9 | 7 | 3.3974 |
| CCDC115 | 10 | 153 | 0.066516 | 0.24247 | 0.759119 | 153 | 7 | -1.9982 | 109 | 0.087395 | 0.26302 | 0.99915 | 109 | 2 | -1.9982 |
| HBQ1 | 10 | 154 | 0.068049 | 0.24595 | 0.765012 | 154 | 5 | -1.3253 | 275 | 0.40474 | 0.6688 | 0.99915 | 275 | 3 | -1.3253 |
| PIR | 10 | 155 | 0.070134 | 0.25087 | 0.775284 | 155 | 7 | -2.8705 | 347 | 0.60194 | 0.80755 | 0.99915 | 347 | 2 | -2.8705 |
| AGMO | 10 | 156 | 0.072004 | 0.25537 | 0.779021 | 156 | 7 | -3.2535 | 443 | 0.9016 | 0.95242 | 0.99915 | 443 | 1 | -3.2535 |
| HEBP1 | 10 | 157 | 0.072314 | 0.25617 | 0.779021 | 157 | 5 | 0.77195 | 76 | 0.049683 | 0.17174 | 0.99915 | 76 | 5 | 0.77195 |
| DUOX2 | 10 | 158 | 0.072843 | 0.25766 | 0.779021 | 158 | 5 | 0.17173 | 69 | 0.042352 | 0.15228 | 0.99915 | 69 | 4 | 0.17173 |
| TF | 10 | 159 | 0.07324 | 0.25859 | 0.779021 | 159 | 6 | -3.3501 | 83 | 0.056728 | 0.19003 | 0.99915 | 83 | 3 | -3.3501 |
| CYP7B1 | 10 | 160 | 0.07459 | 0.26158 | 0.780761 | 160 | 6 | -1.1932 | 148 | 0.13376 | 0.34859 | 0.99915 | 148 | 4 | -1.1932 |
| FADS3 | 10 | 161 | 0.075356 | 0.26335 | 0.780761 | 161 | 6 | -3.5912 | 348 | 0.60294 | 0.80817 | 0.99915 | 348 | 3 | -3.5912 |
| CYP4A11 | 10 | 162 | 0.075605 | 0.26406 | 0.780761 | 162 | 6 | -3.5037 | 236 | 0.30153 | 0.57333 | 0.99915 | 236 | 3 | -3.5037 |
| NENF | 10 | 163 | 0.078418 | 0.27083 | 0.795866 | 163 | 6 | -1.0035 | 217 | 0.26201 | 0.53572 | 0.99915 | 217 | 4 | -1.0035 |
| KDM6B | 10 | 164 | 0.079378 | 0.273 | 0.797372 | 164 | 3 | 2.5402 | 36 | 0.021073 | 0.089746 | 0.99915 | 36 | 6 | 2.5402 |
| CYP2E1 | 10 | 165 | 0.081598 | 0.27815 | 0.807489 | 165 | 7 | -0.65772 | 397 | 0.74251 | 0.88992 | 0.99915 | 397 | 3 | -0.65772 |
| KDM2A | 10 | 166 | 0.084667 | 0.28544 | 0.823652 | 166 | 5 | -1.6355 | 422 | 0.85295 | 0.93011 | 0.99915 | 422 | 2 | -1.6355 |
| CYP2W1 | 10 | 167 | 0.087395 | 0.29161 | 0.831185 | 167 | 6 | -0.54788 | 32 | 0.019763 | 0.085093 | 0.99915 | 32 | 3 | -0.54788 |
| SCD | 10 | 168 | 0.087774 | 0.29245 | 0.831185 | 168 | 6 | -0.4218 | 142 | 0.12654 | 0.33657 | 0.99915 | 142 | 4 | -0.4218 |
| COPA | 10 | 169 | 0.089929 | 0.29714 | 0.831185 | 169 | 7 | -3.2498 | 258 | 0.35626 | 0.62509 | 0.99915 | 258 | 2 | -3.2498 |
| CYB561D2 | 10 | 170 | 0.090165 | 0.29756 | 0.831185 | 170 | 5 | 0.79078 | 52 | 0.03018 | 0.11953 | 0.99915 | 52 | 5 | 0.79078 |
| ACO1 | 10 | 171 | 0.090584 | 0.29844 | 0.831185 | 171 | 5 | -0.18915 | 307 | 0.45662 | 0.71546 | 0.99915 | 307 | 3 | -0.18915 |
| EGLN2 | 10 | 172 | 0.090798 | 0.29888 | 0.831185 | 172 | 4 | 1.2791 | 133 | 0.11317 | 0.31388 | 0.99915 | 133 | 5 | 1.2791 |
| DDX5 | 10 | 173 | 0.091858 | 0.30125 | 0.831185 | 173 | 5 | -1.0493 | 366 | 0.664 | 0.84342 | 0.99915 | 366 | 3 | -1.0493 |
| ALOX15 | 10 | 174 | 0.092175 | 0.30193 | 0.831185 | 174 | 6 | -1.4067 | 179 | 0.18159 | 0.4222 | 0.99915 | 179 | 3 | -1.4067 |
| ATP6V0D1 | 10 | 175 | 0.095982 | 0.31069 | 0.849824 | 175 | 6 | -2.1761 | 388 | 0.70898 | 0.86968 | 0.99915 | 388 | 3 | -2.1761 |
| PLOD2 | 10 | 176 | 0.096667 | 0.31225 | 0.849824 | 176 | 5 | -1.8425 | 334 | 0.54024 | 0.77201 | 0.99915 | 334 | 3 | -1.8425 |
| PARN | 10 | 177 | 0.097852 | 0.31504 | 0.85103 | 177 | 5 | -0.46283 | 304 | 0.45336 | 0.71253 | 0.99915 | 304 | 3 | -0.46283 |
| PLOD3 | 10 | 178 | 0.098392 | 0.31625 | 0.85103 | 178 | 5 | -0.99965 | 399 | 0.74837 | 0.8924 | 0.99915 | 399 | 2 | -0.99965 |
| SLC39A13 | 10 | 179 | 0.099953 | 0.31977 | 0.855693 | 179 | 7 | -1.5025 | 214 | 0.25395 | 0.52722 | 0.99915 | 214 | 2 | -1.5025 |
| P4HA1 | 10 | 180 | 0.10426 | 0.32883 | 0.871152 | 180 | 6 | -2.5643 | 314 | 0.47428 | 0.73097 | 0.99915 | 314 | 3 | -2.5643 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHF8 | 10 | 181 | 0.10443 | 0.32918 | 0.871152 | 181 | 5 | -0.82339 | 146 | 0.13238 | 0.34638 | 0.99915 | 146 | 5 | -0.82339 |
| CYP2C19 | 10 | 182 | 0.10798 | 0.33673 | 0.881978 | 182 | 6 | -3.2192 | 196 | 0.21326 | 0.46902 | 0.99915 | 196 | 3 | -3.2192 |
| GUCY1B3 | 10 | 183 | 0.10951 | 0.34013 | 0.881978 | 183 | 6 | -0.96259 | 418 | 0.82966 | 0.92045 | 0.99915 | 418 | 1 | -0.96259 |
| CYB5R3 | 10 | 184 | 0.11107 | 0.34356 | 0.881978 | 184 | 3 | 1.8501 | 39 | 0.022524 | 0.094706 | 0.99915 | 39 | 5 | 1.8501 |
| SRC | 10 | 185 | 0.11116 | 0.3437 | 0.881978 | 185 | 7 | -2.0021 | 391 | 0.71566 | 0.87375 | 0.99915 | 391 | 2 | -2.0021 |
| DOHH | 10 | 186 | 0.11119 | 0.34381 | 0.881978 | 186 | 7 | -2.4509 | 270 | 0.3814 | 0.6475 | 0.99915 | 270 | 3 | -2.4509 |
| CYP2S1 | 10 | 187 | 0.11219 | 0.34607 | 0.881978 | 187 | 6 | -0.39969 | 435 | 0.89124 | 0.94739 | 0.99915 | 435 | 1 | -0.39969 |
| CYP27A1 | 10 | 188 | 0.11226 | 0.34616 | 0.881978 | 188 | 6 | -3.2621 | 268 | 0.37712 | 0.64357 | 0.99915 | 268 | 4 | -3.2621 |
| BBOX1 | 10 | 189 | 0.11418 | 0.34977 | 0.886458 | 189 | 3 | 0.82378 | 88 | 0.05988 | 0.19784 | 0.99915 | 88 | 3 | 0.82378 |
| SLC11A1 | 10 | 190 | 0.11728 | 0.35626 | 0.887832 | 190 | 7 | -1.841 | 165 | 0.16085 | 0.39075 | 0.99915 | 165 | 3 | -1.841 |
| CYP4Z1 | 10 | 191 | 0.11729 | 0.35626 | 0.887832 | 191 | 3 | 1.5045 | 26 | 0.016351 | 0.072855 | 0.99915 | 26 | 4 | 1.5045 |
| MFI2 | 10 | 192 | 0.11817 | 0.35802 | 0.887832 | 192 | 7 | -1.996 | 101 | 0.078067 | 0.24127 | 0.99915 | 101 | 2 | -1.996 |
| AFM | 10 | 193 | 0.12043 | 0.36261 | 0.887832 | 193 | 6 | -3.0802 | 128 | 0.10794 | 0.30499 | 0.99915 | 128 | 4 | -3.0802 |
| FLVCR1 | 10 | 194 | 0.12067 | 0.36303 | 0.887832 | 194 | 6 | -3.1189 | 277 | 0.40803 | 0.67174 | 0.99915 | 277 | 2 | -3.1189 |
| SDHAF1 | 10 | 195 | 0.12225 | 0.36681 | 0.887832 | 195 | 6 | -2.2774 | 333 | 0.53723 | 0.77037 | 0.99915 | 333 | 3 | -2.2774 |
| CYB5D1 | 10 | 196 | 0.12314 | 0.36871 | 0.887832 | 196 | 7 | -2.2958 | 192 | 0.203 | 0.45457 | 0.99915 | 192 | 3 | -2.2958 |
| CLSTN2 | 10 | 197 | 0.12347 | 0.36939 | 0.887832 | 197 | 4 | 0.98944 | 249 | 0.32486 | 0.59615 | 0.99915 | 249 | 4 | 0.98944 |
| NGB | 10 | 198 | 0.12359 | 0.36957 | 0.887832 | 198 | 7 | -2.156 | 390 | 0.71277 | 0.87196 | 0.99915 | 390 | 2 | -2.156 |
| CYP4B1 | 10 | 199 | 0.12498 | 0.37267 | 0.887832 | 199 | 7 | -1.813 | 412 | 0.81578 | 0.91533 | 0.99915 | 412 | 2 | -1.813 |
| PGRMC2 | 10 | 200 | 0.12521 | 0.37308 | 0.887832 | 200 | 7 | -2.1931 | 462 | 0.97787 | 0.98002 | 0.99915 | 462 | 1 | -2.1931 |
| JMJD7 | 10 | 201 | 0.12808 | 0.37904 | 0.887832 | 201 | 4 | 2.5163 | 74 | 0.0474 | 0.16569 | 0.99915 | 74 | 6 | 2.5163 |
| COX5A | 10 | 202 | 0.12824 | 0.37939 | 0.887832 | 202 | 7 | -0.61622 | 436 | 0.89171 | 0.9476 | 0.99915 | 436 | 2 | -0.61622 |
| IREB2 | 10 | 203 | 0.12925 | 0.38157 | 0.887832 | 203 | 5 | -1.159 | 156 | 0.14908 | 0.37257 | 0.99915 | 156 | 4 | -1.159 |
| MPPED1 | 10 | 204 | 0.13062 | 0.38431 | 0.887832 | 204 | 5 | 0.076149 | 105 | 0.084196 | 0.25597 | 0.99915 | 105 | 1 | 0.076149 |
| HIF1A | 10 | 205 | 0.13068 | 0.38444 | 0.887832 | 205 | 6 | -0.69807 | 269 | 0.38087 | 0.64707 | 0.99915 | 269 | 3 | -0.69807 |
| APBB3 | 10 | 206 | 0.13084 | 0.38483 | 0.887832 | 206 | 7 | -1.7887 | 363 | 0.65835 | 0.83986 | 0.99915 | 363 | 3 | -1.7887 |
| ABAT | 10 | 207 | 0.13114 | 0.38549 | 0.887832 | 207 | 3 | 2.13 | 11 | 0.0043266 | 0.023347 | 0.99915 | 11 | 6 | 2.13 |
| CYP24A1 | 10 | 208 | 0.13117 | 0.38553 | 0.887832 | 208 | 6 | -1.9713 | 164 | 0.15899 | 0.38792 | 0.99915 | 164 | 4 | -1.9713 |
| IRG1 | 10 | 209 | 0.13266 | 0.3884 | 0.890169 | 209 | 4 | 0.79225 | 340 | 0.56409 | 0.78552 | 0.99915 | 340 | 3 | 0.79225 |
| DUOX1 | 10 | 210 | 0.13367 | 0.39038 | 0.890442 | 210 | 5 | -1.6004 | 239 | 0.30896 | 0.58017 | 0.99915 | 239 | 3 | -1.6004 |
| EPX | 10 | 211 | 0.13477 | 0.39251 | 0.891052 | 211 | 6 | -2.8544 | 113 | 0.091858 | 0.2728 | 0.99915 | 113 | 3 | -2.8544 |
| CYP2C18 | 10 | 212 | 0.1383 | 0.39904 | 0.901606 | 212 | 5 | 0.1019 | 400 | 0.74948 | 0.8927 | 0.99915 | 400 | 2 | 0.1019 |
| CYP11B2 | 10 | 213 | 0.14161 | 0.4059 | 0.909074 | 213 | 6 | -1.8397 | 263 | 0.37238 | 0.63902 | 0.99915 | 263 | 3 | -1.8397 |
| JMJD8 | 10 | 214 | 0.14328 | 0.40913 | 0.909074 | 214 | 5 | -0.00247 | 325 | 0.49655 | 0.74829 | 0.99915 | 325 | 3 | -0.00247 |
| CYP8B1 | 10 | 215 | 0.14338 | 0.40931 | 0.909074 | 215 | 7 | -1.3997 | 421 | 0.85161 | 0.92951 | 0.99915 | 421 | 2 | -1.3997 |
| ASAH2 | 10 | 216 | 0.14479 | 0.4116 | 0.909074 | 216 | 5 | 0.70563 | 178 | 0.17747 | 0.41602 | 0.99915 | 178 | 5 | 0.70563 |
| LRP2 | 10 | 217 | 0.14493 | 0.41184 | 0.909074 | 217 | 6 | -0.42099 | 459 | 0.97341 | 0.97733 | 0.99915 | 459 | 1 | -0.42099 |
| HAAO | 10 | 218 | 0.14727 | 0.41633 | 0.914777 | 218 | 6 | -2.1209 | 318 | 0.48426 | 0.73863 | 0.99915 | 318 | 3 | -2.1209 |
| NTHL1 | 10 | 219 | 0.14867 | 0.41913 | 0.916732 | 219 | 5 | -1.416 | 345 | 0.5949 | 0.80355 | 0.99915 | 345 | 3 | -1.416 |
| RFESD | 10 | 220 | 0.15006 | 0.42179 | 0.918344 | 220 | 7 | -1.3334 | 305 | 0.45441 | 0.71347 | 0.99915 | 305 | 3 | -1.3334 |
| HSPBAP1 | 10 | 221 | 0.15458 | 0.43073 | 0.932801 | 221 | 6 | -0.68508 | 12 | 0.0060525 | 0.03139 | 0.99915 | 12 | 2 | -0.68508 |
| DPYD | 10 | 222 | 0.15915 | 0.43914 | 0.932801 | 222 | 5 | -1.2945 | 395 | 0.72586 | 0.88004 | 0.99915 | 395 | 3 | -1.2945 |
| SCD5 | 10 | 223 | 0.15972 | 0.44019 | 0.932801 | 223 | 5 | -1.4968 | 319 | 0.48623 | 0.74043 | 0.99915 | 319 | 3 | -1.4968 |
| STEAP3 | 10 | 224 | 0.16085 | 0.4423 | 0.932801 | 224 | 5 | 0.07674 | 322 | 0.49043 | 0.74421 | 0.99915 | 322 | 4 | 0.07674 |
| NR1D1 | 10 | 225 | 0.16102 | 0.44256 | 0.932801 | 225 | 6 | -2.0667 | 473 | 0.99313 | 0.9934 | 0.99915 | 473 | 0 | -2.0667 |
| TMEM62 | 10 | 226 | 0.16122 | 0.44289 | 0.932801 | 226 | 4 | 0.42492 | 429 | 0.87758 | 0.94099 | 0.99915 | 429 | 2 | 0.42492 |
| P4HA3 | 10 | 227 | 0.16155 | 0.44352 | 0.932801 | 227 | 6 | -2.4908 | 444 | 0.90394 | 0.95355 | 0.99915 | 444 | 1 | -2.4908 |
| GLRX3 | 10 | 228 | 0.16183 | 0.44401 | 0.932801 | 228 | 7 | -0.962 | 434 | 0.88954 | 0.94676 | 0.99915 | 434 | 2 | -0.962 |
| ALKBH3 | 10 | 229 | 0.16319 | 0.44638 | 0.933323 | 229 | 5 | 0.18482 | 289 | 0.42609 | 0.68825 | 0.99915 | 289 | 3 | 0.18482 |
| FADS1 | 10 | 230 | 0.1643 | 0.44837 | 0.933323 | 230 | 7 | -1.3761 | 410 | 0.79346 | 0.90676 | 0.99915 | 410 | 2 | -1.3761 |
| RSAD1 | 10 | 231 | 0.16529 | 0.4501 | 0.933323 | 231 | 5 | -0.45413 | 58 | 0.034537 | 0.13193 | 0.99915 | 58 | 5 | -0.45413 |
| DLG3 | 10 | 232 | 0.16708 | 0.4531 | 0.933525 | 232 | 7 | -0.80915 | 291 | 0.4283 | 0.69013 | 0.99915 | 291 | 3 | -0.80915 |
| HR | 10 | 233 | 0.16877 | 0.4561 | 0.933525 | 233 | 6 | -2.6411 | 332 | 0.53366 | 0.7684 | 0.99915 | 332 | 2 | -2.6411 |
| NOS1 | 10 | 234 | 0.16913 | 0.45678 | 0.933525 | 234 | 6 | -2.5615 | 260 | 0.36091 | 0.62912 | 0.99915 | 260 | 3 | -2.5615 |
| CYP1A2 | 10 | 235 | 0.17074 | 0.45978 | 0.933525 | 235 | 7 | -2.2022 | 295 | 0.43341 | 0.69475 | 0.99915 | 295 | 2 | -2.2022 |
| CISD3 | 10 | 236 | 0.17083 | 0.45994 | 0.933525 | 236 | 6 | -2.5394 | 220 | 0.27318 | 0.54649 | 0.99915 | 220 | 2 | -2.5394 |
| LRP1 | 10 | 237 | 0.17298 | 0.46341 | 0.933683 | 237 | 5 | -0.30149 | 134 | 0.1133 | 0.31404 | 0.99915 | 134 | 4 | -0.30149 |
| ALOX15B | 10 | 238 | 0.17335 | 0.46392 | 0.933683 | 238 | 6 | -1.2037 | 331 | 0.53306 | 0.76804 | 0.99915 | 331 | 3 | -1.2037 |
| FTHL17 | 10 | 239 | 0.17588 | 0.46697 | 0.935744 | 239 | 4 | 1.8225 | 112 | 0.089913 | 0.26857 | 0.99915 | 112 | 6 | 1.8225 |
| BRIP1 | 10 | 240 | 0.17736 | 0.46885 | 0.935744 | 240 | 5 | 0.01109 | 285 | 0.41998 | 0.6828 | 0.99915 | 285 | 4 | 0.01109 |
| AMBP | 10 | 241 | 0.17949 | 0.47178 | 0.93769 | 241 | 6 | -2.2082 | 151 | 0.13732 | 0.35397 | 0.99915 | 151 | 4 | -2.2082 |
| SGK1 | 10 | 242 | 0.18131 | 0.47437 | 0.938932 | 242 | 6 | -2.0174 | 361 | 0.65384 | 0.83714 | 0.99915 | 361 | 3 | -2.0174 |
| CDKAL1 | 10 | 243 | 0.18601 | 0.48056 | 0.940707 | 243 | 6 | -2.3148 | 228 | 0.28953 | 0.56145 | 0.99915 | 228 | 4 | -2.3148 |
| HSPA6 | 10 | 244 | 0.18772 | 0.48311 | 0.940707 | 244 | 4 | 1.7357 | 201 | 0.23203 | 0.4957 | 0.99915 | 201 | 5 | 1.7357 |
| CYB561D1 | 10 | 245 | 0.18953 | 0.48574 | 0.940707 | 245 | 5 | -0.73559 | 98 | 0.074538 | 0.23296 | 0.99915 | 98 | 3 | -0.73559 |
| ISCA1 | 10 | 246 | 0.19465 | 0.49253 | 0.940707 | 246 | 5 | -0.59568 | 227 | 0.28787 | 0.55975 | 0.99915 | 227 | 3 | -0.59568 |
| NR1D2 | 10 | 247 | 0.19476 | 0.49268 | 0.940707 | 247 | 5 | -1.5435 | 351 | 0.6174 | 0.81601 | 0.99915 | 351 | 2 | -1.5435 |
| HPDL | 10 | 248 | 0.19612 | 0.49471 | 0.940707 | 248 | 5 | -1.4347 | 169 | 0.16417 | 0.39589 | 0.99915 | 169 | 4 | -1.4347 |
| KDM5D | 10 | 249 | 0.19698 | 0.49585 | 0.940707 | 249 | 3 | 2.1912 | 80 | 0.052605 | 0.17919 | 0.99915 | 80 | 6 | 2.1912 |
| LYRM4 | 10 | 250 | 0.19892 | 0.4986 | 0.940707 | 250 | 6 | -0.9919 | 342 | 0.57061 | 0.78922 | 0.99915 | 342 | 2 | -0.9919 |
| HERC2 | 10 | 251 | 0.19892 | 0.4986 | 0.940707 | 251 | 4 | 1.401 | 35 | 0.020862 | 0.089 | 0.99915 | 35 | 5 | 1.401 |
| CYP2R1 | 10 | 252 | 0.20034 | 0.50062 | 0.940707 | 252 | 3 | 2.6213 | 4 | 0.00029555 | 0.0020927 | 0.250595 | 4 | 5 | 2.6213 |
| NDUFV2 | 10 | 253 | 0.20196 | 0.5028 | 0.940707 | 253 | 6 | -1.9529 | 276 | 0.40687 | 0.67068 | 0.99915 | 276 | 3 | -1.9529 |
| RAB6B | 10 | 254 | 0.20217 | 0.50308 | 0.940707 | 254 | 6 | -1.9109 | 44 | 0.024702 | 0.10233 | 0.99915 | 44 | 4 | -1.9109 |
| PLOD1 | 10 | 255 | 0.20367 | 0.5051 | 0.940707 | 255 | 6 | -1.6246 | 380 | 0.69275 | 0.86078 | 0.99915 | 380 | 3 | -1.6246 |
| SLC25A37 | 10 | 256 | 0.20458 | 0.50624 | 0.940707 | 256 | 5 | -0.78577 | 247 | 0.32258 | 0.59383 | 0.99915 | 247 | 4 | -0.78577 |
| SLC39A2 | 10 | 257 | 0.20492 | 0.50669 | 0.940707 | 257 | 5 | 0.29588 | 212 | 0.24994 | 0.52123 | 0.99915 | 212 | 3 | 0.29588 |
| HEBP2 | 10 | 258 | 0.20858 | 0.51103 | 0.945109 | 258 | 6 | -2.2369 | 451 | 0.92005 | 0.96121 | 0.99915 | 451 | 1 | -2.2369 |
| KDM3A | 10 | 259 | 0.21188 | 0.51509 | 0.947156 | 259 | 6 | -1.3774 | 119 | 0.098513 | 0.28828 | 0.99915 | 119 | 2 | -1.3774 |
| LPO | 10 | 260 | 0.21391 | 0.51797 | 0.947156 | 260 | 5 | 0.24053 | 296 | 0.43809 | 0.69923 | 0.99915 | 296 | 3 | 0.24053 |
| ATP6V0A2 | 10 | 261 | 0.21399 | 0.51807 | 0.947156 | 261 | 5 | 0.14589 | 183 | 0.18748 | 0.43102 | 0.99915 | 183 | 3 | 0.14589 |
| ABCB6 | 10 | 262 | 0.21718 | 0.52247 | 0.949775 | 262 | 6 | -1.4812 | 299 | 0.44767 | 0.70741 | 0.99915 | 299 | 3 | -1.4812 |
| JMJD1C | 10 | 263 | 0.2179 | 0.52347 | 0.949775 | 263 | 6 | -2.0421 | 293 | 0.43133 | 0.69299 | 0.99915 | 293 | 3 | -2.0421 |
| CYP4A22 | 10 | 264 | 0.22348 | 0.53084 | 0.959063 | 264 | 3 | 0.61108 | 246 | 0.32031 | 0.59155 | 0.99915 | 246 | 4 | 0.61108 |
| SUOX | 10 | 265 | 0.22774 | 0.53613 | 0.959063 | 265 | 5 | 0.45494 | 162 | 0.15671 | 0.38446 | 0.99915 | 162 | 5 | 0.45494 |
| CYGB | 10 | 266 | 0.23054 | 0.53955 | 0.959063 | 266 | 6 | -2.0019 | 317 | 0.4774 | 0.73352 | 0.99915 | 317 | 3 | -2.0019 |
| JMJD4 | 10 | 267 | 0.23238 | 0.54175 | 0.959063 | 267 | 4 | 1.9263 | 7 | 0.0018707 | 0.010762 | 0.722487 | 7 | 5 | 1.9263 |
| EIF2AK1 | 10 | 268 | 0.23321 | 0.54297 | 0.959063 | 268 | 3 | 1.2168 | 79 | 0.051646 | 0.17689 | 0.99915 | 79 | 5 | 1.2168 |
| MIOX | 10 | 269 | 0.23372 | 0.54362 | 0.959063 | 269 | 5 | 0.000553 | 238 | 0.30764 | 0.57908 | 0.99915 | 238 | 4 | 0.000553 |
| PTGES2 | 10 | 270 | 0.24 | 0.55148 | 0.959063 | 270 | 6 | -1.2108 | 81 | 0.054947 | 0.18564 | 0.99915 | 81 | 4 | -1.2108 |
| CYP4F11 | 10 | 271 | 0.24021 | 0.55171 | 0.959063 | 271 | 5 | -1.3972 | 387 | 0.70792 | 0.86917 | 0.99915 | 387 | 2 | -1.3972 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EGLN3 | 10 | 272 | 0.24071 | 0.55235 | 0.959063 | 272 | 6 | -1.2417 | 110 | 0.089232 | 0.26725 | 0.99915 | 110 | 4 | -1.2417 |
| SLC39A4 | 10 | 273 | 0.24177 | 0.55363 | 0.959063 | 273 | 6 | -1.2046 | 338 | 0.54992 | 0.77707 | 0.99915 | 338 | 3 | -1.2046 |
| NFU1 | 10 | 274 | 0.24625 | 0.55932 | 0.959063 | 274 | 5 | -1.1945 | 377 | 0.68402 | 0.85557 | 0.99915 | 377 | 3 | -1.1945 |
| DNAJC24 | 10 | 275 | 0.24726 | 0.5606 | 0.959063 | 275 | 5 | -0.13109 | 281 | 0.41441 | 0.67737 | 0.99915 | 281 | 1 | -0.13109 |
| HTT | 10 | 276 | 0.2486 | 0.56222 | 0.959063 | 276 | 4 | 0.40184 | 415 | 0.82311 | 0.9179 | 0.99915 | 415 | 2 | 0.40184 |
| SETD7 | 10 | 277 | 0.24899 | 0.56261 | 0.959063 | 277 | 5 | 0.87716 | 100 | 0.076296 | 0.2369 | 0.99915 | 100 | 5 | 0.87716 |
| CP | 10 | 278 | 0.25448 | 0.56976 | 0.959063 | 278 | 4 | 0.70626 | 131 | 0.11107 | 0.31049 | 0.99915 | 131 | 4 | 0.70626 |
| CBS | 10 | 279 | 0.25661 | 0.5725 | 0.959063 | 279 | 4 | 1.9815 | 92 | 0.062025 | 0.20321 | 0.99915 | 92 | 6 | 1.9815 |
| TDO2 | 10 | 280 | 0.25706 | 0.57296 | 0.959063 | 280 | 4 | 0.95878 | 107 | 0.085182 | 0.25823 | 0.99915 | 107 | 4 | 0.95878 |
| FRAS1 | 10 | 281 | 0.26578 | 0.58321 | 0.959063 | 281 | 4 | 0.22433 | 369 | 0.66903 | 0.84647 | 0.99915 | 369 | 3 | 0.22433 |
| PPP3CA | 10 | 282 | 0.26688 | 0.58441 | 0.959063 | 282 | 6 | -1.1327 | 103 | 0.08064 | 0.24752 | 0.99915 | 103 | 4 | -1.1327 |
| MMS19 | 10 | 283 | 0.27319 | 0.59188 | 0.959063 | 283 | 5 | -0.82698 | 310 | 0.46174 | 0.71993 | 0.99915 | 310 | 3 | -0.82698 |
| APP | 10 | 284 | 0.27366 | 0.59233 | 0.959063 | 284 | 5 | -1.1567 | 409 | 0.7922 | 0.90631 | 0.99915 | 409 | 2 | -1.1567 |
| IDO1 | 10 | 285 | 0.27494 | 0.59381 | 0.959063 | 285 | 6 | -1.7936 | 329 | 0.51944 | 0.76057 | 0.99915 | 329 | 1 | -1.7936 |
| BOLA3 | 10 | 286 | 0.2774 | 0.59634 | 0.959063 | 286 | 6 | -1.4702 | 456 | 0.94695 | 0.96718 | 0.99915 | 456 | 1 | -1.4702 |
| CAT | 10 | 287 | 0.27888 | 0.59797 | 0.959063 | 287 | 3 | 2.5401 | 48 | 0.027017 | 0.11019 | 0.99915 | 48 | 7 | 2.5401 |
| CYP4F2 | 10 | 288 | 0.28121 | 0.60046 | 0.959063 | 288 | 6 | -0.87679 | 166 | 0.1627 | 0.39361 | 0.99915 | 166 | 4 | -0.87679 |
| ISCU | 10 | 289 | 0.28273 | 0.60225 | 0.959063 | 289 | 6 | -0.84726 | 466 | 0.98235 | 0.98302 | 0.99915 | 466 | 1 | -0.84726 |
| XDH | 10 | 290 | 0.28734 | 0.6076 | 0.959063 | 290 | 6 | -1.152 | 425 | 0.86027 | 0.93302 | 0.99915 | 425 | 2 | -1.152 |
| AMDHD1 | 10 | 291 | 0.28976 | 0.61064 | 0.959063 | 291 | 5 | -0.8519 | 189 | 0.2002 | 0.45044 | 0.99915 | 189 | 3 | -0.8519 |
| CYP4F8 | 10 | 292 | 0.29296 | 0.61436 | 0.959063 | 292 | 5 | 0.49616 | 199 | 0.22872 | 0.49122 | 0.99915 | 199 | 5 | 0.49616 |
| DEGS2 | 10 | 293 | 0.3018 | 0.62502 | 0.959063 | 293 | 4 | 1.7158 | 177 | 0.17423 | 0.41144 | 0.99915 | 177 | 5 | 1.7158 |
| SLC39A8 | 10 | 294 | 0.30274 | 0.62609 | 0.959063 | 294 | 5 | 0.53388 | 85 | 0.058433 | 0.1943 | 0.99915 | 85 | 5 | 0.53388 |
| EVL | 10 | 295 | 0.30608 | 0.63006 | 0.959063 | 295 | 6 | -0.9455 | 138 | 0.11884 | 0.32332 | 0.99915 | 138 | 2 | -0.9455 |
| CYP51A1 | 10 | 296 | 0.30812 | 0.63221 | 0.959063 | 296 | 5 | -0.10345 | 94 | 0.063155 | 0.2059 | 0.99915 | 94 | 5 | -0.10345 |
| HFE | 10 | 297 | 0.30857 | 0.63273 | 0.959063 | 297 | 5 | -0.57094 | 22 | 0.012929 | 0.059782 | 0.99915 | 22 | 4 | -0.57094 |
| PAH | 10 | 298 | 0.31044 | 0.6349 | 0.959063 | 298 | 6 | -0.8045 | 194 | 0.20881 | 0.46289 | 0.99915 | 194 | 3 | -0.8045 |
| CYP7A1 | 10 | 299 | 0.31177 | 0.63657 | 0.959063 | 299 | 5 | 0.42255 | 127 | 0.10638 | 0.30249 | 0.99915 | 127 | 5 | 0.42255 |
| PXDN | 10 | 300 | 0.31389 | 0.63911 | 0.959063 | 300 | 3 | 2.6379 | 46 | 0.025373 | 0.10464 | 0.99915 | 46 | 7 | 2.6379 |
| SLC39A3 | 10 | 301 | 0.31425 | 0.63952 | 0.959063 | 301 | 4 | 1.5303 | 132 | 0.11267 | 0.31309 | 0.99915 | 132 | 5 | 1.5303 |
| CA9 | 10 | 302 | 0.31548 | 0.64084 | 0.959063 | 302 | 4 | 1.1409 | 210 | 0.24902 | 0.51991 | 0.99915 | 210 | 3 | 1.1409 |
| AFP | 10 | 303 | 0.31603 | 0.64144 | 0.959063 | 303 | 6 | -0.94194 | 354 | 0.62623 | 0.82152 | 0.99915 | 354 | 2 | -0.94194 |
| FABP7 | 10 | 304 | 0.31671 | 0.64217 | 0.959063 | 304 | 4 | 0.77086 | 104 | 0.082593 | 0.2521 | 0.99915 | 104 | 4 | 0.77086 |
| ETHE1 | 10 | 305 | 0.31723 | 0.64273 | 0.959063 | 305 | 6 | -0.60834 | 438 | 0.89639 | 0.94957 | 0.99915 | 438 | 2 | -0.60834 |
| PDE4D | 10 | 306 | 0.31729 | 0.64277 | 0.959063 | 306 | 5 | -1.1996 | 356 | 0.63929 | 0.82899 | 0.99915 | 356 | 3 | -1.1996 |
| MSMO1 | 10 | 307 | 0.31794 | 0.64358 | 0.959063 | 307 | 4 | 0.4215 | 161 | 0.15529 | 0.3822 | 0.99915 | 161 | 3 | 0.4215 |
| NOX1 | 10 | 308 | 0.32284 | 0.64922 | 0.959063 | 308 | 4 | 0.92329 | 364 | 0.65878 | 0.84016 | 0.99915 | 364 | 3 | 0.92329 |
| MUTYH | 10 | 309 | 0.32487 | 0.6515 | 0.959063 | 309 | 4 | 1.3941 | 170 | 0.16449 | 0.39638 | 0.99915 | 170 | 5 | 1.3941 |
| HDAC1 | 10 | 310 | 0.3254 | 0.65217 | 0.959063 | 310 | 4 | 0.50873 | 242 | 0.31369 | 0.58535 | 0.99915 | 242 | 4 | 0.50873 |
| CYP19A1 | 10 | 311 | 0.32733 | 0.65425 | 0.959063 | 311 | 6 | -0.99353 | 37 | 0.021465 | 0.091137 | 0.99915 | 37 | 4 | -0.99353 |
| ETFDH | 10 | 312 | 0.32892 | 0.65578 | 0.959063 | 312 | 5 | 0.26066 | 63 | 0.038337 | 0.14176 | 0.99915 | 63 | 4 | 0.26066 |
| JAK2 | 10 | 313 | 0.33013 | 0.65733 | 0.959063 | 313 | 5 | 0.69189 | 224 | 0.28499 | 0.55707 | 0.99915 | 224 | 4 | 0.69189 |
| CYB5R4 | 10 | 314 | 0.33065 | 0.65789 | 0.959063 | 314 | 3 | 1.8855 | 118 | 0.097632 | 0.28618 | 0.99915 | 118 | 6 | 1.8855 |
| HBB | 10 | 315 | 0.33125 | 0.65856 | 0.959063 | 315 | 4 | 1.0643 | 237 | 0.30305 | 0.57477 | 0.99915 | 237 | 4 | 1.0643 |
| CYP11B1 | 10 | 316 | 0.33181 | 0.65922 | 0.959063 | 316 | 6 | -0.44195 | 209 | 0.2486 | 0.51944 | 0.99915 | 209 | 3 | -0.44195 |
| FBXL5 | 10 | 317 | 0.33254 | 0.65987 | 0.959063 | 317 | 4 | 1.7874 | 34 | 0.020249 | 0.086743 | 0.99915 | 34 | 5 | 1.7874 |
| FOLH1 | 10 | 318 | 0.33369 | 0.6611 | 0.959063 | 318 | 5 | -0.99866 | 171 | 0.16636 | 0.3992 | 0.99915 | 171 | 4 | -0.99866 |
| TSHZ1 | 10 | 319 | 0.33375 | 0.66113 | 0.959063 | 319 | 4 | 2.6275 | 10 | 0.003314 | 0.018635 | 0.892619 | 10 | 5 | 2.6275 |
| SET | 10 | 320 | 0.33454 | 0.66193 | 0.959063 | 320 | 6 | -1.2187 | 326 | 0.50989 | 0.75579 | 0.99915 | 326 | 3 | -1.2187 |
| LTF | 10 | 321 | 0.33462 | 0.66206 | 0.959063 | 321 | 6 | -0.18302 | 360 | 0.65044 | 0.8349 | 0.99915 | 360 | 3 | -0.18302 |
| HMOX2 | 10 | 322 | 0.33468 | 0.66213 | 0.959063 | 322 | 6 | -0.63874 | 273 | 0.39449 | 0.65985 | 0.99915 | 273 | 4 | -0.63874 |
| SLC48A1 | 10 | 323 | 0.33485 | 0.66237 | 0.959063 | 323 | 3 | 1.2548 | 62 | 0.037299 | 0.13887 | 0.99915 | 62 | 4 | 1.2548 |
| MRE11A | 10 | 324 | 0.33615 | 0.66368 | 0.959063 | 324 | 5 | 0.37569 | 30 | 0.019092 | 0.082439 | 0.99915 | 30 | 4 | 0.37569 |
| MAP2 | 10 | 325 | 0.33751 | 0.66529 | 0.959063 | 325 | 5 | -1.0217 | 61 | 0.035914 | 0.13514 | 0.99915 | 61 | 4 | -1.0217 |
| KDM6A | 10 | 326 | 0.33855 | 0.6663 | 0.959063 | 326 | 5 | -0.65016 | 327 | 0.51244 | 0.75714 | 0.99915 | 327 | 3 | -0.65016 |
| HAMP | 10 | 327 | 0.33974 | 0.66769 | 0.959063 | 327 | 5 | 0.52531 | 215 | 0.25438 | 0.5278 | 0.99915 | 215 | 2 | 0.52531 |
| AIFM3 | 10 | 328 | 0.34084 | 0.66885 | 0.959063 | 328 | 6 | -0.27983 | 144 | 0.12808 | 0.33927 | 0.99915 | 144 | 2 | -0.27983 |
| ALOX12B | 10 | 329 | 0.34092 | 0.66889 | 0.959063 | 329 | 5 | -0.77099 | 77 | 0.051325 | 0.17601 | 0.99915 | 77 | 4 | -0.77099 |
| HMOX1 | 10 | 330 | 0.34331 | 0.67139 | 0.959063 | 330 | 5 | 0.23648 | 64 | 0.039441 | 0.14447 | 0.99915 | 64 | 4 | 0.23648 |
| OGFOD3 | 10 | 331 | 0.34503 | 0.67321 | 0.959063 | 331 | 4 | 2.4235 | 72 | 0.046136 | 0.16238 | 0.99915 | 72 | 6 | 2.4235 |
| PER3 | 10 | 332 | 0.34539 | 0.67362 | 0.959063 | 332 | 4 | 0.082606 | 271 | 0.38707 | 0.65263 | 0.99915 | 271 | 2 | 0.082606 |
| FTH1 | 10 | 333 | 0.34539 | 0.67362 | 0.959063 | 333 | 6 | -0.64799 | 339 | 0.55497 | 0.78015 | 0.99915 | 339 | 2 | -0.64799 |
| MDM4 | 10 | 334 | 0.34913 | 0.67763 | 0.959063 | 334 | 6 | -0.26284 | 344 | 0.58583 | 0.79805 | 0.99915 | 344 | 3 | -0.26284 |
| KDM5B | 10 | 335 | 0.35014 | 0.67861 | 0.959063 | 335 | 5 | -0.20559 | 136 | 0.11418 | 0.31541 | 0.99915 | 136 | 4 | -0.20559 |
| FXN | 10 | 336 | 0.35038 | 0.67883 | 0.959063 | 336 | 6 | -0.30931 | 330 | 0.5289 | 0.76558 | 0.99915 | 330 | 3 | -0.30931 |
| CYB5D2 | 10 | 337 | 0.3504 | 0.67885 | 0.959063 | 337 | 3 | 1.0761 | 106 | 0.084625 | 0.25693 | 0.99915 | 106 | 4 | 1.0761 |
| HBG2 | 3 | 338 | 0.35043 | 0.50429 | 0.940707 | 338 | 1 | 0.12977 | 280 | 0.41307 | 0.48879 | 0.99915 | 280 | 1 | 0.12977 |
| LDHD | 10 | 339 | 0.35121 | 0.67983 | 0.959063 | 339 | 6 | -0.23836 | 57 | 0.032516 | 0.12618 | 0.99915 | 57 | 4 | -0.23836 |
| FADS2 | 10 | 340 | 0.35246 | 0.68127 | 0.959063 | 340 | 6 | -0.63469 | 229 | 0.29159 | 0.5634 | 0.99915 | 229 | 4 | -0.63469 |
| SLC39A12 | 10 | 341 | 0.35384 | 0.68276 | 0.959063 | 341 | 5 | 0.5653 | 288 | 0.4233 | 0.68559 | 0.99915 | 288 | 4 | 0.5653 |
| SDHD | 10 | 342 | 0.3575 | 0.68644 | 0.960361 | 342 | 5 | -0.11432 | 149 | 0.13594 | 0.35197 | 0.99915 | 149 | 3 | -0.11432 |
| ABL1 | 10 | 343 | 0.36018 | 0.68907 | 0.960361 | 343 | 5 | 0.76874 | 244 | 0.31759 | 0.58896 | 0.99915 | 244 | 4 | 0.76874 |
| INPPL1 | 10 | 344 | 0.36072 | 0.6897 | 0.960361 | 344 | 4 | 0.68482 | 312 | 0.47016 | 0.72757 | 0.99915 | 312 | 4 | 0.68482 |
| CYB561A3 | 10 | 345 | 0.37022 | 0.69935 | 0.9647 | 345 | 4 | 0.097668 | 283 | 0.41525 | 0.67814 | 0.99915 | 283 | 4 | 0.097668 |
| ATP6V1G1 | 10 | 346 | 0.37104 | 0.70015 | 0.9647 | 346 | 5 | 0.097774 | 66 | 0.04001 | 0.14604 | 0.99915 | 66 | 4 | 0.097774 |
| CYB561 | 10 | 347 | 0.37354 | 0.70275 | 0.9647 | 347 | 4 | 1.4396 | 174 | 0.16755 | 0.40091 | 0.99915 | 174 | 5 | 1.4396 |
| CNNM2 | 10 | 348 | 0.37384 | 0.70308 | 0.9647 | 348 | 5 | 0.5018 | 375 | 0.67813 | 0.85205 | 0.99915 | 375 | 3 | 0.5018 |
| ALOXE3 | 10 | 349 | 0.37921 | 0.70794 | 0.9647 | 349 | 4 | 1.1713 | 230 | 0.29169 | 0.56352 | 0.99915 | 230 | 4 | 1.1713 |
| NPAS2 | 10 | 350 | 0.3818 | 0.70979 | 0.9647 | 350 | 4 | 1.4001 | 121 | 0.099501 | 0.29005 | 0.99915 | 121 | 5 | 1.4001 |
| EML6 | 10 | 351 | 0.38259 | 0.71029 | 0.9647 | 351 | 2 | 2.0969 | 24 | 0.015457 | 0.069525 | 0.99915 | 24 | 7 | 2.0969 |
| KIF4B | 10 | 352 | 0.38405 | 0.71143 | 0.9647 | 352 | 5 | -0.09236 | 374 | 0.67728 | 0.85157 | 0.99915 | 374 | 3 | -0.09236 |
| KDM4D | 10 | 353 | 0.38754 | 0.71397 | 0.9647 | 353 | 5 | -0.2252 | 135 | 0.11388 | 0.31507 | 0.99915 | 135 | 3 | -0.2252 |
| STC2 | 10 | 354 | 0.39528 | 0.71975 | 0.9647 | 354 | 5 | -0.36607 | 430 | 0.88076 | 0.94229 | 0.99915 | 430 | 2 | -0.36607 |
| CLSTN1 | 10 | 355 | 0.39573 | 0.72007 | 0.9647 | 355 | 4 | 2.4089 | 70 | 0.04376 | 0.15607 | 0.99915 | 70 | 6 | 2.4089 |
| ALKBH8 | 10 | 356 | 0.39924 | 0.72253 | 0.9647 | 356 | 3 | 1.8529 | 89 | 0.061344 | 0.2016 | 0.99915 | 89 | 5 | 1.8529 |
| APLP1 | 10 | 357 | 0.40062 | 0.72362 | 0.9647 | 357 | 4 | 0.56113 | 232 | 0.29423 | 0.56621 | 0.99915 | 232 | 4 | 0.56113 |
| KDM4C | 10 | 358 | 0.40103 | 0.72396 | 0.9647 | 358 | 5 | -0.12833 | 78 | 0.051471 | 0.17635 | 0.99915 | 78 | 3 | -0.12833 |
| ALOX12 | 10 | 359 | 0.40369 | 0.72595 | 0.9647 | 359 | 3 | 0.76344 | 245 | 0.31917 | 0.5905 | 0.99915 | 245 | 3 | 0.76344 |
| ADO | 10 | 360 | 0.40578 | 0.72746 | 0.9647 | 360 | 2 | 1.5566 | 213 | 0.25262 | 0.52537 | 0.99915 | 213 | 3 | 1.5566 |
| DEGS1 | 10 | 361 | 0.40725 | 0.72851 | 0.9647 | 361 | 5 | 0.30101 | 167 | 0.16281 | 0.39381 | 0.99915 | 167 | 5 | 0.30101 |
| CYP27C1 | 10 | 362 | 0.40803 | 0.72906 | 0.9647 | 362 | 5 | 0.24067 | 311 | 0.46488 | 0.7229 | 0.99915 | 311 | 3 | 0.24067 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CYP26B1 | 10 | 363 | 0.42048 | 0.7379 | 0.970091 | 363 | 3 | 1.6393 | 185 | 0.19171 | 0.43759 | 0.99915 | 185 | 5 | 1.6393 |
| CYP26A1 | 10 | 364 | 0.42235 | 0.73921 | 0.970091 | 364 | 5 | 0.42188 | 20 | 0.011214 | 0.053181 | 0.99915 | 20 | 5 | 0.42188 |
| IDO2 | 9 | 365 | 0.43314 | 0.73587 | 0.970091 | 365 | 2 | 1.7267 | 175 | 0.16969 | 0.40008 | 0.99915 | 175 | 5 | 1.7267 |
| CTRL | 1004 | 366 | 0.44066 | 0.75271 | 0.97408 | 366 | 398 | 1.3038 | 1 | 8.72E-14 | 4.97E-06 | 0.002381 | 1 | 465 | 1.3038 |
| NIPA1 | 10 | 367 | 0.44271 | 0.75402 | 0.97408 | 367 | 4 | 1.166 | 180 | 0.18181 | 0.42256 | 0.99915 | 180 | 4 | 1.166 |
| UTY | 10 | 368 | 0.44576 | 0.75626 | 0.97408 | 368 | 3 | 1.5169 | 231 | 0.29342 | 0.5654 | 0.99915 | 231 | 4 | 1.5169 |
| FA2H | 10 | 369 | 0.44842 | 0.75813 | 0.97408 | 369 | 5 | -0.42902 | 147 | 0.13266 | 0.34681 | 0.99915 | 147 | 3 | -0.42902 |
| NOX3 | 10 | 370 | 0.45125 | 0.76025 | 0.97408 | 370 | 5 | 0.22631 | 184 | 0.19118 | 0.43676 | 0.99915 | 184 | 3 | 0.22631 |
| STEAP4 | 10 | 371 | 0.45343 | 0.7618 | 0.97408 | 371 | 3 | 0.99616 | 252 | 0.32922 | 0.60022 | 0.99915 | 252 | 4 | 0.99616 |
| MOCS1 | 10 | 372 | 0.45598 | 0.76359 | 0.97408 | 372 | 4 | 1.0124 | 255 | 0.3395 | 0.60978 | 0.99915 | 255 | 4 | 1.0124 |
| CYB5R1 | 10 | 373 | 0.45854 | 0.7655 | 0.97408 | 373 | 5 | -0.17095 | 298 | 0.44336 | 0.70372 | 0.99915 | 298 | 3 | -0.17095 |
| CYBRD1 | 10 | 374 | 0.45881 | 0.76565 | 0.97408 | 374 | 5 | 0.2327 | 157 | 0.15031 | 0.37431 | 0.99915 | 157 | 4 | 0.2327 |
| NEK6 | 10 | 375 | 0.46087 | 0.767 | 0.97408 | 375 | 2 | 2.4541 | 28 | 0.018296 | 0.079556 | 0.99915 | 28 | 7 | 2.4541 |
| RORB | 10 | 376 | 0.46285 | 0.76839 | 0.97408 | 376 | 5 | -0.29641 | 279 | 0.41197 | 0.67535 | 0.99915 | 279 | 3 | -0.29641 |
| NOX5 | 10 | 377 | 0.46328 | 0.76869 | 0.97408 | 377 | 5 | -0.08588 | 301 | 0.45088 | 0.71043 | 0.99915 | 301 | 3 | -0.08588 |
| RSAD2 | 10 | 378 | 0.46688 | 0.77173 | 0.975355 | 378 | 5 | 0.3272 | 143 | 0.12741 | 0.33804 | 0.99915 | 143 | 4 | 0.3272 |
| TET1 | 10 | 379 | 0.4748 | 0.77712 | 0.977179 | 379 | 5 | 0.21616 | 137 | 0.11574 | 0.31817 | 0.99915 | 137 | 4 | 0.21616 |
| KLKB1 | 10 | 380 | 0.47688 | 0.77847 | 0.977179 | 380 | 5 | 0.26442 | 200 | 0.2293 | 0.49209 | 0.99915 | 200 | 4 | 0.26442 |
| CYBB | 10 | 381 | 0.47937 | 0.77997 | 0.977179 | 381 | 4 | 0.76553 | 303 | 0.45286 | 0.71211 | 0.99915 | 303 | 3 | 0.76553 |
| NOS3 | 10 | 382 | 0.48177 | 0.78134 | 0.977179 | 382 | 5 | 0.34906 | 129 | 0.10814 | 0.30538 | 0.99915 | 129 | 4 | 0.34906 |
| PPP1CA | 10 | 383 | 0.4912 | 0.78822 | 0.979099 | 383 | 4 | 0.57055 | 282 | 0.41482 | 0.67775 | 0.99915 | 282 | 3 | 0.57055 |
| APBB2 | 10 | 384 | 0.49485 | 0.79063 | 0.979099 | 384 | 5 | -0.01973 | 45 | 0.025035 | 0.10349 | 0.99915 | 45 | 4 | -0.01973 |
| HBD | 10 | 385 | 0.49562 | 0.79116 | 0.979099 | 385 | 3 | 1.0431 | 218 | 0.26454 | 0.5381 | 0.99915 | 218 | 3 | 1.0431 |
| CYP4F12 | 10 | 386 | 0.49922 | 0.79325 | 0.979099 | 386 | 5 | -0.00907 | 368 | 0.66709 | 0.8454 | 0.99915 | 368 | 2 | -0.00907 |
| SLC39A10 | 10 | 387 | 0.50297 | 0.79595 | 0.979099 | 387 | 5 | 0.29799 | 241 | 0.31307 | 0.58461 | 0.99915 | 241 | 4 | 0.29799 |
| PHYH | 10 | 388 | 0.50398 | 0.79675 | 0.979099 | 388 | 3 | 3.2253 | 6 | 0.0012569 | 0.0075505 | 0.602778 | 6 | 7 | 3.2253 |
| ALKBH2 | 10 | 389 | 0.50826 | 0.79995 | 0.979099 | 389 | 5 | 0.12127 | 343 | 0.57133 | 0.78967 | 0.99915 | 343 | 3 | 0.12127 |
| CYP4X1 | 10 | 390 | 0.51944 | 0.80752 | 0.979099 | 390 | 2 | 2.5461 | 42 | 0.0241 | 0.10027 | 0.99915 | 42 | 7 | 2.5461 |
| KDM3B | 10 | 391 | 0.51957 | 0.80758 | 0.979099 | 391 | 4 | 1.1765 | 206 | 0.24378 | 0.51264 | 0.99915 | 206 | 4 | 1.1765 |
| NUBPL | 10 | 392 | 0.52111 | 0.80849 | 0.979099 | 392 | 3 | 1.345 | 355 | 0.63704 | 0.82771 | 0.99915 | 355 | 3 | 1.345 |
| TYW1 | 10 | 393 | 0.52171 | 0.80883 | 0.979099 | 393 | 4 | 0.56704 | 248 | 0.32382 | 0.59503 | 0.99915 | 248 | 3 | 0.56704 |
| NIF3L1 | 10 | 394 | 0.52213 | 0.80908 | 0.979099 | 394 | 4 | 1.3933 | 159 | 0.15308 | 0.37871 | 0.99915 | 159 | 5 | 1.3933 |
| TSHZ2 | 10 | 395 | 0.52312 | 0.80977 | 0.979099 | 395 | 4 | 1.1869 | 97 | 0.073116 | 0.22981 | 0.99915 | 97 | 5 | 1.1869 |
| TMLHE | 10 | 396 | 0.52568 | 0.81149 | 0.979099 | 396 | 4 | 1.577 | 153 | 0.14026 | 0.35862 | 0.99915 | 153 | 4 | 1.577 |
| RPE | 10 | 397 | 0.53173 | 0.81559 | 0.980923 | 397 | 5 | -0.27892 | 353 | 0.62551 | 0.82104 | 0.99915 | 353 | 2 | -0.27892 |
| CYP17A1 | 10 | 398 | 0.54368 | 0.82328 | 0.984271 | 398 | 3 | 0.97593 | 287 | 0.42113 | 0.68371 | 0.99915 | 287 | 3 | 0.97593 |
| KDM5A | 10 | 399 | 0.54494 | 0.82399 | 0.984271 | 399 | 5 | 0.3206 | 54 | 0.031442 | 0.12311 | 0.99915 | 54 | 4 | 0.3206 |
| CD163 | 10 | 400 | 0.56005 | 0.83385 | 0.985942 | 400 | 4 | 1.8128 | 27 | 0.018294 | 0.079556 | 0.99915 | 27 | 5 | 1.8128 |
| CYP4V2 | 10 | 401 | 0.56244 | 0.83558 | 0.985942 | 401 | 4 | 1.2793 | 122 | 0.10009 | 0.29106 | 0.99915 | 122 | 4 | 1.2793 |
| ENAH | 10 | 402 | 0.56324 | 0.8361 | 0.985942 | 402 | 4 | 1.4435 | 202 | 0.23645 | 0.50213 | 0.99915 | 202 | 4 | 1.4435 |
| FRRS1L | 10 | 403 | 0.56382 | 0.83642 | 0.985942 | 403 | 5 | -0.01588 | 341 | 0.56899 | 0.7883 | 0.99915 | 341 | 2 | -0.01588 |
| NDFIP1 | 10 | 404 | 0.56426 | 0.83665 | 0.985942 | 404 | 5 | 0.80828 | 82 | 0.055216 | 0.1862 | 0.99915 | 82 | 5 | 0.80828 |
| OGFOD2 | 10 | 405 | 0.56596 | 0.83774 | 0.985942 | 405 | 3 | 1.8044 | 115 | 0.094187 | 0.27813 | 0.99915 | 115 | 5 | 1.8044 |
| LYRM7 | 8 | 406 | 0.57006 | 0.81709 | 0.980923 | 406 | 2 | 1.3777 | 404 | 0.75971 | 0.86494 | 0.99915 | 404 | 2 | 1.3777 |
| TH | 10 | 407 | 0.57362 | 0.84282 | 0.986808 | 407 | 3 | 1.7684 | 117 | 0.095149 | 0.28051 | 0.99915 | 117 | 6 | 1.7684 |
| DPH2 | 10 | 408 | 0.57575 | 0.84427 | 0.986808 | 408 | 5 | 0.32029 | 266 | 0.37571 | 0.6422 | 0.99915 | 266 | 4 | 0.32029 |
| UBE2D1 | 10 | 409 | 0.57924 | 0.84647 | 0.986808 | 409 | 5 | 0.74723 | 292 | 0.4304 | 0.69212 | 0.99915 | 292 | 4 | 0.74723 |
| LCN2 | 10 | 410 | 0.57998 | 0.84699 | 0.986808 | 410 | 5 | -0.06874 | 284 | 0.41588 | 0.67874 | 0.99915 | 284 | 3 | -0.06874 |
| KAT2B | 10 | 411 | 0.58576 | 0.85073 | 0.986808 | 411 | 3 | 0.9673 | 265 | 0.37503 | 0.64164 | 0.99915 | 265 | 3 | 0.9673 |
| KDM4E | 10 | 412 | 0.5924 | 0.85505 | 0.986808 | 412 | 5 | 0.32052 | 40 | 0.023141 | 0.096883 | 0.99915 | 40 | 4 | 0.32052 |
| HEPH | 10 | 413 | 0.59339 | 0.8558 | 0.986808 | 413 | 4 | 0.6421 | 274 | 0.4021 | 0.6665 | 0.99915 | 274 | 3 | 0.6421 |
| CYP2A13 | 10 | 414 | 0.59914 | 0.85926 | 0.986808 | 414 | 4 | 0.23844 | 323 | 0.49374 | 0.74693 | 0.99915 | 323 | 3 | 0.23844 |
| CYP3A7 | 10 | 415 | 0.60152 | 0.86099 | 0.986808 | 415 | 4 | 1.7573 | 86 | 0.058705 | 0.19493 | 0.99915 | 86 | 5 | 1.7573 |
| SLC22A17 | 10 | 416 | 0.60194 | 0.86122 | 0.986808 | 416 | 4 | 0.82813 | 398 | 0.74437 | 0.89106 | 0.99915 | 398 | 3 | 0.82813 |
| CYP26C1 | 10 | 417 | 0.60578 | 0.86354 | 0.986808 | 417 | 4 | 0.27033 | 90 | 0.061519 | 0.20201 | 0.99915 | 90 | 3 | 0.27033 |
| FRRS1 | 10 | 418 | 0.60796 | 0.86475 | 0.986808 | 418 | 1 | 2.4795 | 65 | 0.039947 | 0.14588 | 0.99915 | 65 | 6 | 2.4795 |
| LEPREL1 | 10 | 419 | 0.60889 | 0.86526 | 0.986808 | 419 | 5 | 0.35482 | 408 | 0.77875 | 0.90189 | 0.99915 | 408 | 1 | 0.35482 |
| PGRMC1 | 10 | 420 | 0.61877 | 0.87088 | 0.990369 | 420 | 5 | 0.61995 | 191 | 0.20254 | 0.45388 | 0.99915 | 191 | 4 | 0.61995 |
| CISD1 | 10 | 421 | 0.62319 | 0.87364 | 0.990369 | 421 | 4 | 0.96211 | 225 | 0.28531 | 0.55743 | 0.99915 | 225 | 4 | 0.96211 |
| CISD2 | 10 | 422 | 0.62888 | 0.87597 | 0.990369 | 422 | 4 | 0.74822 | 259 | 0.36078 | 0.62901 | 0.99915 | 259 | 4 | 0.74822 |
| SLC39A9 | 10 | 423 | 0.63055 | 0.87665 | 0.990369 | 423 | 4 | 0.9854 | 316 | 0.47724 | 0.73338 | 0.99915 | 316 | 4 | 0.9854 |
| TPH2 | 10 | 424 | 0.63612 | 0.87907 | 0.990762 | 424 | 3 | 1.454 | 182 | 0.18568 | 0.42815 | 0.99915 | 182 | 5 | 1.454 |
| KIAA1456 | 10 | 425 | 0.65335 | 0.88566 | 0.992825 | 425 | 3 | 0.98148 | 195 | 0.21301 | 0.46871 | 0.99915 | 195 | 3 | 0.98148 |
| ALKBH6 | 10 | 426 | 0.65926 | 0.88814 | 0.992825 | 426 | 4 | 0.36927 | 120 | 0.099125 | 0.28941 | 0.99915 | 120 | 4 | 0.36927 |
| TPH1 | 10 | 427 | 0.67346 | 0.89403 | 0.992825 | 427 | 3 | 2.0222 | 91 | 0.061521 | 0.20202 | 0.99915 | 91 | 5 | 2.0222 |
| CYB5RL | 10 | 428 | 0.67527 | 0.89469 | 0.992825 | 428 | 3 | 1.7429 | 17 | 0.0090777 | 0.044323 | 0.99915 | 17 | 5 | 1.7429 |
| CYP2F1 | 10 | 429 | 0.67574 | 0.89489 | 0.992825 | 429 | 4 | 1.9248 | 145 | 0.13007 | 0.34265 | 0.99915 | 145 | 5 | 1.9248 |
| BCO2 | 10 | 430 | 0.6846 | 0.89853 | 0.992825 | 430 | 3 | 1.9383 | 99 | 0.07483 | 0.23359 | 0.99915 | 99 | 6 | 1.9383 |
| CYP2C9 | 10 | 431 | 0.68528 | 0.89877 | 0.992825 | 431 | 4 | 0.55339 | 306 | 0.4565 | 0.71538 | 0.99915 | 306 | 3 | 0.55339 |
| CYB5R2 | 10 | 432 | 0.69851 | 0.90382 | 0.992825 | 432 | 2 | 2.4425 | 51 | 0.0298 | 0.11837 | 0.99915 | 51 | 6 | 2.4425 |
| HIF1AN | 10 | 433 | 0.69961 | 0.90436 | 0.992825 | 433 | 4 | 0.58484 | 371 | 0.67346 | 0.84936 | 0.99915 | 371 | 3 | 0.58484 |
| CYB5A | 10 | 434 | 0.7037 | 0.906 | 0.992825 | 434 | 4 | 1.4472 | 71 | 0.0447 | 0.15862 | 0.99915 | 71 | 5 | 1.4472 |
| NOS2 | 10 | 435 | 0.70425 | 0.90623 | 0.992825 | 435 | 4 | 1.1033 | 221 | 0.27723 | 0.55003 | 0.99915 | 221 | 4 | 1.1033 |
| SC5D | 10 | 436 | 0.70748 | 0.90742 | 0.992825 | 436 | 3 | 2.3654 | 60 | 0.035194 | 0.1333 | 0.99915 | 60 | 6 | 2.3654 |
| VWF | 10 | 437 | 0.71926 | 0.91217 | 0.992825 | 437 | 3 | 1.8403 | 114 | 0.09291 | 0.27524 | 0.99915 | 114 | 6 | 1.8403 |
| CYP2D6 | 10 | 438 | 0.7222 | 0.91345 | 0.992825 | 438 | 4 | 0.16861 | 394 | 0.72082 | 0.87695 | 0.99915 | 394 | 3 | 0.16861 |
| TMPPE | 10 | 439 | 0.72285 | 0.91376 | 0.992825 | 439 | 2 | 1.7496 | 197 | 0.21927 | 0.47779 | 0.99915 | 197 | 5 | 1.7496 |
| GLRX2 | 10 | 440 | 0.72354 | 0.91406 | 0.992825 | 440 | 3 | 3.0766 | 19 | 0.010054 | 0.048658 | 0.99915 | 19 | 7 | 3.0766 |
| HBG1 | 3 | 441 | 0.72473 | 0.76236 | 0.97408 | 441 | 1 | 2.8745 | 155 | 0.14599 | 0.24198 | 0.99915 | 155 | 2 | 2.8745 |
| NOX4 | 10 | 442 | 0.74437 | 0.9225 | 0.99492 | 442 | 4 | 0.60177 | 426 | 0.8618 | 0.93368 | 0.99915 | 426 | 2 | 0.60177 |
| CDO1 | 10 | 443 | 0.75024 | 0.92486 | 0.99492 | 443 | 3 | 2.9904 | 21 | 0.011825 | 0.055537 | 0.99915 | 21 | 7 | 2.9904 |
| RRM2B | 10 | 444 | 0.75459 | 0.92661 | 0.99492 | 444 | 3 | 0.98085 | 336 | 0.54544 | 0.77465 | 0.99915 | 336 | 3 | 0.98085 |
| MCOLN1 | 10 | 445 | 0.77651 | 0.93535 | 0.99492 | 445 | 4 | 0.75592 | 139 | 0.12038 | 0.32563 | 0.99915 | 139 | 1 | 0.75592 |
| ADI1 | 10 | 446 | 0.78249 | 0.93796 | 0.99492 | 446 | 3 | 1.3847 | 56 | 0.032256 | 0.12555 | 0.99915 | 56 | 5 | 1.3847 |
| ADHFE1 | 10 | 447 | 0.78285 | 0.9381 | 0.99492 | 447 | 3 | 2.0048 | 152 | 0.1396 | 0.35751 | 0.99915 | 152 | 5 | 2.0048 |
| CYP2A6 | 10 | 448 | 0.78448 | 0.93868 | 0.99492 | 448 | 2 | 3.2288 | 8 | 0.0021898 | 0.012611 | 0.722487 | 8 | 7 | 3.2288 |
| BACH1 | 10 | 449 | 0.78747 | 0.93975 | 0.99492 | 449 | 3 | 1.2877 | 173 | 0.16723 | 0.40049 | 0.99915 | 173 | 5 | 1.2877 |
| CYP2A7 | 10 | 450 | 0.7883 | 0.94001 | 0.99492 | 450 | 3 | 2.236 | 50 | 0.029506 | 0.11753 | 0.99915 | 50 | 6 | 2.236 |
| PTGIS | 10 | 451 | 0.78832 | 0.94002 | 0.99492 | 451 | 4 | 1.0986 | 68 | 0.04077 | 0.14779 | 0.99915 | 68 | 4 | 1.0986 |
| PTGS2 | 10 | 452 | 0.79346 | 0.94182 | 0.99492 | 452 | 4 | 1.7183 | 193 | 0.20649 | 0.45964 | 0.99915 | 193 | 5 | 1.7183 |
| PTGS1 | 10 | 453 | 0.79415 | 0.94214 | 0.99492 | 453 | 4 | 0.57562 | 150 | 0.13723 | 0.35384 | 0.99915 | 150 | 3 | 0.57562 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CYBA | 10 | 454 | 0.80565 | 0.94649 | 0.99492 | 454 | 4 | 2.026 | 102 | 0.078568 | 0.24251 | 0.99915 | 102 | 5 | 2.026 |
| LYZ | 10 | 455 | 0.80992 | 0.94823 | 0.99492 | 455 | 4 | 0.7889 | 154 | 0.14131 | 0.36033 | 0.99915 | 154 | 4 | 0.7889 |
| CYP21A2 | 10 | 456 | 0.81323 | 0.94957 | 0.99492 | 456 | 4 | 0.65465 | 208 | 0.24839 | 0.51915 | 0.99915 | 208 | 4 | 0.65465 |
| CYP2U1 | 10 | 457 | 0.81383 | 0.94977 | 0.99492 | 457 | 4 | 1.0828 | 124 | 0.1019 | 0.29429 | 0.99915 | 124 | 4 | 1.0828 |
| NARF | 10 | 458 | 0.82296 | 0.95368 | 0.99492 | 458 | 4 | 0.9423 | 130 | 0.10885 | 0.30649 | 0.99915 | 130 | 4 | 0.9423 |
| GUCY1A3 | 10 | 459 | 0.82311 | 0.95378 | 0.99492 | 459 | 3 | 2.3449 | 67 | 0.040471 | 0.1471 | 0.99915 | 67 | 6 | 2.3449 |
| CYP3A4 | 10 | 460 | 0.82784 | 0.95554 | 0.99492 | 460 | 4 | 0.26831 | 190 | 0.20217 | 0.45337 | 0.99915 | 190 | 4 | 0.26831 |
| TET3 | 10 | 461 | 0.84998 | 0.96079 | 0.99492 | 461 | 3 | 1.8282 | 176 | 0.17391 | 0.41092 | 0.99915 | 176 | 5 | 1.8282 |
| SLC39A1 | 10 | 462 | 0.86154 | 0.96344 | 0.99492 | 462 | 2 | 2.1931 | 38 | 0.021612 | 0.091724 | 0.99915 | 38 | 5 | 2.1931 |
| CYP3A43 | 10 | 463 | 0.86239 | 0.96364 | 0.99492 | 463 | 3 | 2.8381 | 23 | 0.01457 | 0.065996 | 0.99915 | 23 | 6 | 2.8381 |
| SLC46A1 | 10 | 464 | 0.86412 | 0.96411 | 0.99492 | 464 | 3 | 1.0927 | 211 | 0.24965 | 0.52078 | 0.99915 | 211 | 4 | 1.0927 |
| STEAP2 | 10 | 465 | 0.88839 | 0.97051 | 0.99492 | 465 | 2 | 2.8474 | 29 | 0.018601 | 0.080639 | 0.99915 | 29 | 6 | 2.8474 |
| TPO | 10 | 466 | 0.89186 | 0.97131 | 0.99492 | 466 | 3 | 0.90699 | 111 | 0.089866 | 0.2685 | 0.99915 | 111 | 4 | 0.90699 |
| RASD1 | 10 | 467 | 0.89993 | 0.97351 | 0.99492 | 467 | 3 | 1.5408 | 172 | 0.16712 | 0.40029 | 0.99915 | 172 | 5 | 1.5408 |
| RORA | 10 | 468 | 0.90726 | 0.97545 | 0.99492 | 468 | 1 | 3.9561 | 2 | 4.18E-05 | 0.00031315 | 0.075 | 2 | 8 | 3.9561 |
| STEAP1B | 10 | 469 | 0.91689 | 0.97812 | 0.99492 | 469 | 3 | 1.6332 | 116 | 0.094254 | 0.27835 | 0.99915 | 116 | 5 | 1.6332 |
| HDAC2 | 10 | 470 | 0.91748 | 0.97823 | 0.99492 | 470 | 3 | 2.1506 | 95 | 0.065945 | 0.21267 | 0.99915 | 95 | 6 | 2.1506 |
| HEPHL1 | 10 | 471 | 0.92004 | 0.97882 | 0.99492 | 471 | 3 | 0.57206 | 297 | 0.44167 | 0.70215 | 0.99915 | 297 | 2 | 0.57206 |
| CYP20A1 | 10 | 472 | 0.92529 | 0.98038 | 0.99492 | 472 | 3 | 1.9774 | 59 | 0.034984 | 0.1329 | 0.99915 | 59 | 6 | 1.9774 |
| TBXAS1 | 10 | 473 | 0.93948 | 0.98456 | 0.997045 | 473 | 3 | 2.1864 | 75 | 0.049341 | 0.17089 | 0.99915 | 75 | 6 | 2.1864 |
| MOXD1 | 10 | 474 | 0.96098 | 0.989 | 0.999432 | 474 | 1 | 3.7985 | 5 | 0.00040772 | 0.0026991 | 0.258571 | 5 | 7 | 3.7985 |
| CYP39A1 | 10 | 475 | 0.97253 | 0.99141 | 0.999528 | 475 | 2 | 3.2188 | 13 | 0.0061277 | 0.031728 | 0.99915 | 13 | 7 | 3.2188 |
| CYP4F3 | 10 | 476 | 0.9827 | 0.9943 | 0.999528 | 476 | 2 | 2.0994 | 87 | 0.059588 | 0.19717 | 0.99915 | 87 | 6 | 2.0994 |
| ATOX1 | 10 | 477 | 0.98876 | 0.99617 | 0.999528 | 477 | 2 | 1.9283 | 158 | 0.15188 | 0.37674 | 0.99915 | 158 | 5 | 1.9283 |
| PPP3CC | 10 | 478 | 0.99855 | 0.99869 | 0.999528 | 478 | 1 | 3.727 | 3 | 0.00027917 | 0.0019734 | 0.250595 | 3 | 8 | 3.727 |
| CYP2C8 | 10 | 479 | 0.99949 | 0.99953 | 0.999528 | 479 | 0 | 2.816 | 43 | 0.024116 | 0.10028 | 0.99915 | 43 | 6 | 2.816 |

| Total dropped sgRNAs |
|---|
| 2884 |

**Supplemental Table S3. Result of MAGeCK test of Mouse #2**

| id | num | Rank | neg\|score | neg\|p-valu | neg\|fdr | neg\|rank | neg\|goodsgrna | neg\|lfc | Rank2 | pos\|score | pos\|p-valu | pos\|fdr | pos\|rank | pos\|goods | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CIAO1 | 10 | 1 | 2.77E-05 | 0.000214 | 0.102381 | 1 | 8 | -1.2355 | 462 | 0.94565 | 0.97711 | 0.999915 | 462 | 2 | -1.2355 |
| THAP4 | 10 | 2 | 7.76E-05 | 0.000601 | 0.144048 | 2 | 8 | -1.4486 | 387 | 0.61581 | 0.84209 | 0.999915 | 387 | 2 | -1.4486 |
| NDUFV1 | 10 | 3 | 0.00014789 | 0.001208 | 0.174762 | 3 | 10 | -1.3459 | 479 | 0.99985 | 0.99992 | 0.999915 | 479 | 0 | -1.3459 |
| CYP4F22 | 10 | 4 | 0.00022557 | 0.001794 | 0.174762 | 4 | 6 | -1.4506 | 332 | 0.45808 | 0.73865 | 0.999915 | 332 | 3 | -1.4506 |
| FDXR | 10 | 5 | 0.00022925 | 0.001824 | 0.174762 | 5 | 9 | -1.2211 | 471 | 0.99254 | 0.99335 | 0.999915 | 471 | 1 | -1.2211 |
| IBA57 | 10 | 6 | 0.00038219 | 0.002709 | 0.202083 | 6 | 9 | -1.1805 | 210 | 0.1975 | 0.47426 | 0.999915 | 210 | 1 | -1.1805 |
| NDOR1 | 10 | 7 | 0.00043523 | 0.002997 | 0.202083 | 7 | 7 | -1.4713 | 396 | 0.64304 | 0.85957 | 0.999915 | 396 | 3 | -1.4713 |
| CYP27B1 | 10 | 8 | 0.0004929 | 0.003375 | 0.202083 | 8 | 8 | -1.3975 | 361 | 0.55243 | 0.80083 | 0.999915 | 361 | 2 | -1.3975 |
| ASPHD2 | 10 | 9 | 0.00057766 | 0.003862 | 0.205556 | 9 | 9 | -1.0943 | 433 | 0.81841 | 0.93376 | 0.999915 | 433 | 1 | -1.0943 |
| RRM2 | 10 | 10 | 0.00063055 | 0.00432 | 0.206905 | 10 | 9 | -0.97037 | 478 | 0.9989 | 0.99902 | 0.999915 | 478 | 0 | -0.97037 |
| ERCC2 | 10 | 11 | 0.00071927 | 0.004896 | 0.213203 | 11 | 9 | -1.0449 | 470 | 0.99229 | 0.99321 | 0.999915 | 470 | 1 | -1.0449 |
| OSGEP | 10 | 12 | 0.00086666 | 0.005841 | 0.222527 | 12 | 7 | -0.98632 | 472 | 0.99407 | 0.99457 | 0.999915 | 472 | 1 | -0.98632 |
| ABCB7 | 10 | 13 | 0.0009009 | 0.006039 | 0.222527 | 13 | 7 | -1.3403 | 329 | 0.44959 | 0.73309 | 0.999915 | 329 | 3 | -1.3403 |
| KAT5 | 10 | 14 | 0.0012865 | 0.008445 | 0.252801 | 14 | 9 | -1.0453 | 466 | 0.96524 | 0.98499 | 0.999915 | 466 | 1 | -1.0453 |
| CYP2E1 | 10 | 15 | 0.0013369 | 0.008654 | 0.252801 | 15 | 9 | -1.1465 | 367 | 0.56326 | 0.80818 | 0.999915 | 367 | 1 | -1.1465 |
| HSCB | 10 | 16 | 0.0013376 | 0.008654 | 0.252801 | 16 | 8 | -1.0996 | 232 | 0.23781 | 0.52236 | 0.999915 | 232 | 2 | -1.0996 |
| KDM5B | 10 | 17 | 0.0013868 | 0.008972 | 0.252801 | 17 | 3 | 3.1219 | 163 | 0.14417 | 0.38467 | 0.999915 | 163 | 6 | 3.1219 |
| ELP3 | 10 | 18 | 0.00182 | 0.011607 | 0.308862 | 18 | 8 | -1.0962 | 94 | 0.063155 | 0.22144 | 0.999915 | 94 | 2 | -1.0962 |
| NDUFS7 | 10 | 19 | 0.0020703 | 0.013267 | 0.313975 | 19 | 6 | -1.2993 | 262 | 0.3068 | 0.60146 | 0.999915 | 262 | 4 | -1.2993 |
| ATP6V0D1 | 10 | 20 | 0.0021337 | 0.013654 | 0.313975 | 20 | 6 | -1.2749 | 318 | 0.42046 | 0.71302 | 0.999915 | 318 | 4 | -1.2749 |
| SP1 | 10 | 21 | 0.0021898 | 0.014012 | 0.313975 | 21 | 8 | -1.155 | 454 | 0.92041 | 0.96834 | 0.999915 | 454 | 2 | -1.155 |
| SDHC | 10 | 22 | 0.0023047 | 0.014808 | 0.313975 | 22 | 8 | -1.2183 | 142 | 0.11275 | 0.32538 | 0.999915 | 142 | 2 | -1.2183 |
| COX10 | 10 | 23 | 0.0023497 | 0.015076 | 0.313975 | 23 | 8 | -1.0507 | 477 | 0.99859 | 0.99867 | 0.999915 | 477 | 0 | -1.0507 |
| JHDM1D | 10 | 24 | 0.002598 | 0.016428 | 0.316071 | 24 | 6 | -0.75066 | 338 | 0.46552 | 0.74385 | 0.999915 | 338 | 4 | -0.75066 |
| UQCRC1 | 10 | 25 | 0.0026637 | 0.016816 | 0.316071 | 25 | 8 | -1.1997 | 439 | 0.82403 | 0.93623 | 0.999915 | 439 | 2 | -1.1997 |
| CYP2B6 | 10 | 26 | 0.0028619 | 0.017889 | 0.316071 | 26 | 7 | -1.2743 | 459 | 0.93384 | 0.97282 | 0.999915 | 459 | 1 | -1.2743 |
| NARFL | 10 | 27 | 0.0029037 | 0.018068 | 0.316071 | 27 | 8 | -1.2095 | 295 | 0.35975 | 0.6573 | 0.999915 | 295 | 1 | -1.2095 |
| PPP1CA | 10 | 28 | 0.0029652 | 0.018476 | 0.316071 | 28 | 9 | -1.1714 | 464 | 0.95007 | 0.97887 | 0.999915 | 464 | 1 | -1.1714 |
| FDX1 | 10 | 29 | 0.004379 | 0.025246 | 0.405159 | 29 | 7 | -1.2654 | 376 | 0.59044 | 0.82627 | 0.999915 | 376 | 3 | -1.2654 |
| GLRX5 | 10 | 30 | 0.0044088 | 0.025375 | 0.405159 | 30 | 8 | -1.1676 | 414 | 0.70945 | 0.88816 | 0.999915 | 414 | 2 | -1.1676 |
| UQCRFS1 | 10 | 31 | 0.0047212 | 0.026916 | 0.411235 | 31 | 8 | -0.90076 | 447 | 0.8781 | 0.95659 | 0.999915 | 447 | 2 | -0.90076 |
| SLC46A1 | 10 | 32 | 0.0048793 | 0.027473 | 0.411235 | 32 | 8 | -1.0776 | 474 | 0.99652 | 0.99677 | 0.999915 | 474 | 0 | -1.0776 |
| ISCA2 | 10 | 33 | 0.0051377 | 0.028706 | 0.416667 | 33 | 5 | 1.3223 | 237 | 0.24252 | 0.52821 | 0.999915 | 237 | 5 | 1.3223 |
| PRC1 | 10 | 34 | 0.0060109 | 0.032871 | 0.463095 | 34 | 7 | -1.2401 | 330 | 0.45471 | 0.73642 | 0.999915 | 330 | 3 | -1.2401 |
| CCDC115 | 10 | 35 | 0.0063203 | 0.034511 | 0.472313 | 35 | 5 | 0.7791 | 187 | 0.17398 | 0.43684 | 0.999915 | 187 | 5 | 0.7791 |
| MB | 10 | 36 | 0.0068788 | 0.037265 | 0.481122 | 36 | 8 | -1.0277 | 278 | 0.33597 | 0.63261 | 0.999915 | 278 | 2 | -1.0277 |
| EVL | 10 | 37 | 0.0069058 | 0.037394 | 0.481122 | 37 | 8 | -1.2273 | 359 | 0.54653 | 0.7969 | 0.999915 | 359 | 1 | -1.2273 |
| MIPEP | 10 | 38 | 0.0072628 | 0.039035 | 0.481122 | 38 | 7 | -1.0922 | 406 | 0.68887 | 0.88049 | 0.999915 | 406 | 2 | -1.0922 |
| CYP46A1 | 10 | 39 | 0.0073092 | 0.039204 | 0.481122 | 39 | 7 | -1.1665 | 393 | 0.63612 | 0.85543 | 0.999915 | 393 | 3 | -1.1665 |
| NPAS2 | 10 | 40 | 0.0077757 | 0.041371 | 0.481122 | 40 | 5 | -0.34759 | 438 | 0.82393 | 0.9362 | 0.999915 | 438 | 2 | -0.34759 |
| RSBN1 | 10 | 41 | 0.0079336 | 0.042136 | 0.481122 | 41 | 7 | -1.151 | 271 | 0.32649 | 0.62315 | 0.999915 | 271 | 2 | -1.151 |
| NDUFS8 | 10 | 42 | 0.0079451 | 0.042186 | 0.481122 | 42 | 7 | -0.88987 | 458 | 0.93108 | 0.97186 | 0.999915 | 458 | 1 | -0.88987 |
| CYP11A1 | 10 | 43 | 0.0094962 | 0.049573 | 0.548214 | 43 | 7 | -1.0083 | 465 | 0.9606 | 0.98375 | 0.999915 | 465 | 1 | -1.0083 |
| LTF | 10 | 44 | 0.0096556 | 0.050358 | 0.548214 | 44 | 6 | -0.92552 | 252 | 0.27876 | 0.56968 | 0.999915 | 252 | 4 | -0.92552 |
| ATP6AP1 | 10 | 45 | 0.0099949 | 0.052098 | 0.55455 | 45 | 7 | -1.1302 | 463 | 0.94648 | 0.97748 | 0.999915 | 463 | 2 | -1.1302 |
| FBXL5 | 10 | 46 | 0.011984 | 0.060886 | 0.615519 | 46 | 7 | -1.0227 | 60 | 0.032509 | 0.13162 | 0.999915 | 60 | 3 | -1.0227 |
| CYP1B1 | 10 | 47 | 0.012014 | 0.061005 | 0.615519 | 47 | 6 | -1.1141 | 213 | 0.20087 | 0.47851 | 0.999915 | 213 | 4 | -1.1141 |
| SLC39A6 | 10 | 48 | 0.012642 | 0.063649 | 0.615519 | 48 | 4 | 1.7824 | 195 | 0.18317 | 0.45203 | 0.999915 | 195 | 5 | 1.7824 |
| HIF1AN | 10 | 49 | 0.012929 | 0.064763 | 0.615519 | 49 | 5 | -0.14849 | 220 | 0.22039 | 0.5017 | 0.999915 | 220 | 4 | -0.14849 |
| SDHD | 10 | 50 | 0.013668 | 0.067974 | 0.615519 | 50 | 8 | -1.0137 | 450 | 0.89195 | 0.96001 | 0.999915 | 450 | 1 | -1.0137 |
| HTT | 10 | 51 | 0.013993 | 0.069107 | 0.615519 | 51 | 7 | -0.85755 | 311 | 0.39814 | 0.69592 | 0.999915 | 311 | 3 | -0.85755 |
| EGLN1 | 10 | 52 | 0.014491 | 0.071205 | 0.615519 | 52 | 5 | -0.84062 | 283 | 0.34223 | 0.6392 | 0.999915 | 283 | 3 | -0.84062 |
| ACP5 | 10 | 53 | 0.014617 | 0.071781 | 0.615519 | 53 | 8 | -0.72403 | 435 | 0.82027 | 0.93462 | 0.999915 | 435 | 1 | -0.72403 |
| COQ6 | 10 | 54 | 0.01464 | 0.071891 | 0.615519 | 54 | 7 | -1.0687 | 339 | 0.46975 | 0.74675 | 0.999915 | 339 | 3 | -1.0687 |
| ALKBH7 | 10 | 55 | 0.014642 | 0.071901 | 0.615519 | 55 | 5 | -0.23395 | 46 | 0.023766 | 0.10316 | 0.999915 | 46 | 4 | -0.23395 |
| HEBP2 | 10 | 56 | 0.01466 | 0.07196 | 0.615519 | 56 | 4 | 1.5511 | 264 | 0.31562 | 0.61116 | 0.999915 | 264 | 5 | 1.5511 |
| POLA1 | 10 | 57 | 0.01602 | 0.077657 | 0.629859 | 57 | 6 | -1.073 | 358 | 0.54523 | 0.79598 | 0.999915 | 358 | 4 | -1.073 |
| SLC39A12 | 10 | 58 | 0.016207 | 0.078363 | 0.629859 | 58 | 7 | -1.006 | 246 | 0.26058 | 0.54981 | 0.999915 | 246 | 3 | -1.006 |
| APP | 10 | 59 | 0.01635 | 0.078949 | 0.629859 | 59 | 8 | -0.82529 | 428 | 0.7792 | 0.9169 | 0.999915 | 428 | 2 | -0.82529 |
| CYP27A1 | 10 | 60 | 0.016351 | 0.078949 | 0.629859 | 60 | 4 | 1.8225 | 155 | 0.13179 | 0.36246 | 0.999915 | 155 | 5 | 1.8225 |
| LYRM4 | 10 | 61 | 0.01667 | 0.080212 | 0.629859 | 61 | 7 | -1.0152 | 417 | 0.72339 | 0.89367 | 0.999915 | 417 | 1 | -1.0152 |
| C16orf52 | 10 | 62 | 0.018043 | 0.085341 | 0.659332 | 62 | 6 | -0.9732 | 415 | 0.7167 | 0.89105 | 0.999915 | 415 | 3 | -0.9732 |
| JMJD7 | 10 | 63 | 0.018974 | 0.08903 | 0.672314 | 63 | 8 | -0.91115 | 468 | 0.98584 | 0.99 | 0.999915 | 468 | 1 | -0.91115 |
| HMOX2 | 10 | 64 | 0.019763 | 0.09244 | 0.672314 | 64 | 5 | -0.04273 | 288 | 0.35616 | 0.65388 | 0.999915 | 288 | 4 | -0.04273 |
| NTHL1 | 10 | 65 | 0.019988 | 0.093324 | 0.672314 | 65 | 8 | -0.76503 | 449 | 0.8903 | 0.95962 | 0.999915 | 449 | 1 | -0.76503 |
| SDHB | 10 | 66 | 0.020097 | 0.093792 | 0.672314 | 66 | 6 | -0.69401 | 443 | 0.83712 | 0.94237 | 0.999915 | 443 | 3 | -0.69401 |
| CISD3 | 10 | 67 | 0.020858 | 0.096824 | 0.672314 | 67 | 6 | -0.93598 | 421 | 0.74474 | 0.90249 | 0.999915 | 421 | 3 | -0.93598 |
| CYP26A1 | 10 | 68 | 0.021465 | 0.098842 | 0.672314 | 68 | 6 | -0.57903 | 267 | 0.31964 | 0.61547 | 0.999915 | 267 | 4 | -0.57903 |
| UQCRC2 | 10 | 69 | 0.022056 | 0.10069 | 0.672314 | 69 | 5 | -0.16183 | 249 | 0.27588 | 0.56673 | 0.999915 | 249 | 4 | -0.16183 |
| JMJD6 | 10 | 70 | 0.022278 | 0.10136 | 0.672314 | 70 | 5 | 2.1953 | 43 | 0.022727 | 0.099597 | 0.999915 | 43 | 5 | 2.1953 |
| NR1D1 | 10 | 71 | 0.022699 | 0.10254 | 0.672314 | 71 | 7 | -1.1048 | 93 | 0.063101 | 0.22127 | 0.999915 | 93 | 3 | -1.1048 |
| TMEM199 | 10 | 72 | 0.023141 | 0.10397 | 0.672314 | 72 | 7 | -0.68948 | 331 | 0.45688 | 0.73781 | 0.999915 | 331 | 1 | -0.68948 |
| GRXCR1 | 10 | 73 | 0.023228 | 0.10429 | 0.672314 | 73 | 6 | -1.0477 | 365 | 0.56106 | 0.80663 | 0.999915 | 365 | 4 | -1.0477 |
| HBM | 10 | 74 | 0.023993 | 0.10673 | 0.672314 | 74 | 6 | -0.77 | 261 | 0.30626 | 0.60086 | 0.999915 | 261 | 3 | -0.77 |
| POLE | 10 | 75 | 0.024589 | 0.10866 | 0.672314 | 75 | 7 | -0.87648 | 448 | 0.88839 | 0.95924 | 0.999915 | 448 | 1 | -0.87648 |
| NFS1 | 10 | 76 | 0.024676 | 0.10892 | 0.672314 | 76 | 7 | -0.9598 | 407 | 0.69666 | 0.88328 | 0.999915 | 407 | 1 | -0.9598 |
| KDM2A | 10 | 77 | 0.024801 | 0.10933 | 0.672314 | 77 | 7 | -0.90685 | 248 | 0.27369 | 0.56446 | 0.999915 | 248 | 3 | -0.90685 |
| CYP4F2 | 10 | 78 | 0.02486 | 0.10948 | 0.672314 | 78 | 3 | 2.1039 | 204 | 0.1909 | 0.4655 | 0.999915 | 204 | 6 | 2.1039 |
| SLC11A2 | 10 | 79 | 0.026554 | 0.1146 | 0.694846 | 79 | 6 | -0.67451 | 360 | 0.54661 | 0.79692 | 0.999915 | 360 | 2 | -0.67451 |
| CYB561D1 | 10 | 80 | 0.027162 | 0.1168 | 0.699315 | 80 | 6 | -0.80461 | 388 | 0.61833 | 0.84376 | 0.999915 | 388 | 3 | -0.80461 |
| PTGES2 | 10 | 81 | 0.027917 | 0.11892 | 0.703263 | 81 | 7 | -0.98366 | 325 | 0.43548 | 0.72344 | 0.999915 | 325 | 3 | -0.98366 |
| MYLIP | 10 | 82 | 0.028855 | 0.12208 | 0.705423 | 82 | 5 | -0.62169 | 52 | 0.026554 | 0.11179 | 0.999915 | 52 | 4 | -0.62169 |
| KDM4A | 10 | 83 | 0.029297 | 0.12345 | 0.705423 | 83 | 7 | -1.0283 | 411 | 0.70774 | 0.88757 | 0.999915 | 411 | 2 | -1.0283 |
| ALKBH1 | 10 | 84 | 0.029611 | 0.12454 | 0.705423 | 84 | 6 | -1.0688 | 416 | 0.71844 | 0.89164 | 0.999915 | 416 | 2 | -1.0688 |
| KDM4B | 10 | 85 | 0.029934 | 0.1255 | 0.705423 | 85 | 6 | -1.0053 | 275 | 0.33134 | 0.62811 | 0.999915 | 275 | 4 | -1.0053 |
| DPH3 | 10 | 86 | 0.030896 | 0.12857 | 0.705423 | 86 | 6 | -0.92681 | 461 | 0.93991 | 0.97494 | 0.999915 | 461 | 2 | -0.92681 |
| FADS1 | 10 | 87 | 0.030903 | 0.1286 | 0.705423 | 87 | 7 | -0.85848 | 154 | 0.13114 | 0.36142 | 0.999915 | 154 | 2 | -0.85848 |
| RTEL1 | 10 | 88 | 0.03141 | 0.13037 | 0.705423 | 88 | 7 | -1.0346 | 181 | 0.16712 | 0.42513 | 0.999915 | 181 | 3 | -1.0346 |
| CYB561D2 | 10 | 89 | 0.031727 | 0.13129 | 0.705423 | 89 | 6 | -0.94338 | 473 | 0.99645 | 0.99671 | 0.999915 | 473 | 0 | -0.94338 |
| SCD5 | 10 | 90 | 0.03212 | 0.13254 | 0.705423 | 90 | 7 | -0.71734 | 440 | 0.8348 | 0.94126 | 0.999915 | 440 | 2 | -0.71734 |
| CYC1 | 10 | 91 | 0.032715 | 0.13447 | 0.707823 | 91 | 5 | -0.41869 | 269 | 0.32382 | 0.62016 | 0.999915 | 269 | 4 | -0.41869 |
| EGLN2 | 10 | 92 | 0.035156 | 0.14179 | 0.712676 | 92 | 7 | -0.87348 | 167 | 0.14479 | 0.38556 | 0.999915 | 167 | 3 | -0.87348 |
| GLRX3 | 10 | 93 | 0.036067 | 0.14439 | 0.712676 | 93 | 7 | -0.90645 | 469 | 0.98768 | 0.99073 | 0.999915 | 469 | 1 | -0.90645 |
| POLD1 | 10 | 94 | 0.036121 | 0.14447 | 0.712676 | 94 | 7 | -0.96803 | 303 | 0.37823 | 0.67603 | 0.999915 | 303 | 2 | -0.96803 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CYP4Z1 | 10 | 95 | 0.036662 | 0.146 | 0.712676 | 95 | 5 | -0.32021 | 180 | 0.16707 | 0.42506 | 0.999915 | 180 | 4 | -0.32021 |
| DGCR8 | 10 | 96 | 0.03702 | 0.14705 | 0.712676 | 96 | 7 | -0.96063 | 251 | 0.27758 | 0.56843 | 0.999915 | 251 | 1 | -0.96063 |
| LEPRE1 | 10 | 97 | 0.038188 | 0.1506 | 0.712676 | 97 | 7 | -0.84596 | 413 | 0.70938 | 0.88815 | 0.999915 | 413 | 3 | -0.84596 |
| NR1D2 | 10 | 98 | 0.038442 | 0.15131 | 0.712676 | 98 | 3 | 3.8682 | 116 | 0.086017 | 0.27195 | 0.999915 | 116 | 6 | 3.8682 |
| DDX5 | 10 | 99 | 0.03902 | 0.15297 | 0.712676 | 99 | 5 | -0.42917 | 205 | 0.19185 | 0.46689 | 0.999915 | 205 | 4 | -0.42917 |
| SLC25A28 | 10 | 100 | 0.039183 | 0.1535 | 0.712676 | 100 | 7 | -0.81814 | 345 | 0.49088 | 0.76018 | 0.999915 | 345 | 3 | -0.81814 |
| NUBP1 | 10 | 101 | 0.039384 | 0.15404 | 0.712676 | 101 | 7 | -0.99448 | 104 | 0.07292 | 0.24435 | 0.999915 | 104 | 3 | -0.99448 |
| CISD1 | 10 | 102 | 0.04001 | 0.15586 | 0.712676 | 102 | 5 | -0.23145 | 286 | 0.35509 | 0.6527 | 0.999915 | 286 | 1 | -0.23145 |
| LYRM7 | 8 | 103 | 0.040695 | 0.14331 | 0.712676 | 103 | 6 | -0.82708 | 467 | 0.97082 | 0.97622 | 0.999915 | 467 | 1 | -0.82708 |
| DPH2 | 10 | 104 | 0.040744 | 0.15778 | 0.712676 | 104 | 6 | -0.94052 | 378 | 0.59916 | 0.83186 | 0.999915 | 378 | 4 | -0.94052 |
| ALOX12 | 10 | 105 | 0.040961 | 0.15848 | 0.712676 | 105 | 6 | -0.60535 | 455 | 0.92474 | 0.9696 | 0.999915 | 455 | 1 | -0.60535 |
| RPE65 | 10 | 106 | 0.040973 | 0.1585 | 0.712676 | 106 | 6 | -0.95129 | 403 | 0.67965 | 0.87673 | 0.999915 | 403 | 2 | -0.95129 |
| INPPL1 | 10 | 107 | 0.041552 | 0.16019 | 0.712676 | 107 | 7 | -0.9379 | 240 | 0.24592 | 0.53229 | 0.999915 | 240 | 3 | -0.9379 |
| ADI1 | 10 | 108 | 0.04168 | 0.16069 | 0.712676 | 108 | 4 | 1.5031 | 255 | 0.29381 | 0.58659 | 0.999915 | 255 | 5 | 1.5031 |
| STEAP4 | 10 | 109 | 0.043348 | 0.16589 | 0.72803 | 109 | 4 | 2.9122 | 184 | 0.16994 | 0.42996 | 0.999915 | 184 | 6 | 2.9122 |
| RSBN1L | 10 | 110 | 0.043791 | 0.16719 | 0.72803 | 110 | 7 | -0.80626 | 133 | 0.10794 | 0.31613 | 0.999915 | 133 | 2 | -0.80626 |
| TMEM62 | 10 | 111 | 0.044529 | 0.16944 | 0.731167 | 111 | 7 | -0.95152 | 397 | 0.64422 | 0.86028 | 0.999915 | 397 | 3 | -0.95152 |
| STEAP2 | 10 | 112 | 0.045588 | 0.17255 | 0.737946 | 112 | 3 | 0.40967 | 199 | 0.18733 | 0.45906 | 0.999915 | 199 | 4 | 0.40967 |
| MFI2 | 10 | 113 | 0.047018 | 0.17644 | 0.741374 | 113 | 6 | -0.94287 | 446 | 0.86281 | 0.95249 | 0.999915 | 446 | 2 | -0.94287 |
| IDO2 | 9 | 114 | 0.048099 | 0.17561 | 0.741374 | 114 | 4 | 0.36497 | 239 | 0.24403 | 0.51598 | 0.999915 | 239 | 5 | 0.36497 |
| CP | 10 | 115 | 0.049683 | 0.18446 | 0.752761 | 115 | 5 | -0.13696 | 409 | 0.70428 | 0.88631 | 0.999915 | 409 | 3 | -0.13696 |
| ETFDH | 10 | 116 | 0.049762 | 0.18471 | 0.752761 | 116 | 3 | 0.92433 | 215 | 0.20727 | 0.48598 | 0.999915 | 215 | 5 | 0.92433 |
| SLC39A13 | 10 | 117 | 0.049811 | 0.18482 | 0.752761 | 117 | 5 | -0.52687 | 352 | 0.51023 | 0.77297 | 0.999915 | 352 | 3 | -0.52687 |
| FTH1 | 10 | 118 | 0.050565 | 0.18693 | 0.752761 | 118 | 6 | -0.59068 | 404 | 0.68048 | 0.87703 | 0.999915 | 404 | 3 | -0.59068 |
| FTO | 10 | 119 | 0.050612 | 0.18701 | 0.752761 | 119 | 6 | -0.67418 | 203 | 0.19036 | 0.46447 | 0.999915 | 203 | 4 | -0.67418 |
| CACNA1C | 10 | 120 | 0.051953 | 0.1909 | 0.759366 | 120 | 5 | -0.76035 | 341 | 0.47205 | 0.74825 | 0.999915 | 341 | 4 | -0.76035 |
| LRP2 | 10 | 121 | 0.05231 | 0.19182 | 0.759366 | 121 | 5 | 2.1165 | 119 | 0.091261 | 0.28209 | 0.999915 | 119 | 5 | 2.1165 |
| COQ7 | 10 | 122 | 0.054514 | 0.19816 | 0.778005 | 122 | 4 | -0.19212 | 185 | 0.17298 | 0.43535 | 0.999915 | 185 | 4 | -0.19212 |
| PHF2 | 10 | 123 | 0.056594 | 0.20422 | 0.795296 | 123 | 2 | 3.8312 | 20 | 0.0080677 | 0.042464 | 0.999915 | 20 | 5 | 3.8312 |
| MRE11A | 10 | 124 | 0.057175 | 0.20602 | 0.795833 | 124 | 5 | -0.57058 | 323 | 0.43493 | 0.723 | 0.999915 | 323 | 3 | -0.57058 |
| NFU1 | 10 | 125 | 0.05988 | 0.21317 | 0.816857 | 125 | 5 | -0.25567 | 336 | 0.46298 | 0.7419 | 0.999915 | 336 | 3 | -0.25567 |
| PHF8 | 10 | 126 | 0.062479 | 0.22024 | 0.823792 | 126 | 6 | -0.89106 | 453 | 0.91578 | 0.96687 | 0.999915 | 453 | 2 | -0.89106 |
| RSAD2 | 10 | 127 | 0.063155 | 0.222 | 0.823792 | 127 | 4 | -0.04395 | 425 | 0.76734 | 0.9118 | 0.999915 | 425 | 3 | -0.04395 |
| ISCU | 10 | 128 | 0.063435 | 0.22283 | 0.823792 | 128 | 7 | -0.94941 | 418 | 0.73162 | 0.89682 | 0.999915 | 418 | 2 | -0.94941 |
| KDM2B | 10 | 129 | 0.063629 | 0.2234 | 0.823792 | 129 | 6 | -0.81808 | 198 | 0.18541 | 0.45578 | 0.999915 | 198 | 2 | -0.81808 |
| CYB561A3 | 10 | 130 | 0.064071 | 0.22469 | 0.823792 | 130 | 6 | -0.61865 | 308 | 0.3893 | 0.68717 | 0.999915 | 308 | 3 | -0.61865 |
| OGFOD3 | 10 | 131 | 0.064968 | 0.22692 | 0.823792 | 131 | 3 | 2.12 | 226 | 0.23019 | 0.51338 | 0.999915 | 226 | 5 | 2.12 |
| UTY | 10 | 132 | 0.066151 | 0.23006 | 0.823792 | 132 | 6 | -0.74934 | 451 | 0.89654 | 0.96117 | 0.999915 | 451 | 2 | -0.74934 |
| SET | 10 | 133 | 0.066589 | 0.23127 | 0.823792 | 133 | 6 | -0.83953 | 432 | 0.81705 | 0.93314 | 0.999915 | 432 | 3 | -0.83953 |
| DDX11 | 10 | 134 | 0.067805 | 0.23416 | 0.823792 | 134 | 6 | -0.82155 | 333 | 0.45913 | 0.73928 | 0.999915 | 333 | 3 | -0.82155 |
| HPD | 10 | 135 | 0.068009 | 0.23471 | 0.823792 | 135 | 5 | -0.6542 | 423 | 0.75246 | 0.90581 | 0.999915 | 423 | 2 | -0.6542 |
| COX15 | 10 | 136 | 0.068362 | 0.23554 | 0.823792 | 136 | 7 | -0.76884 | 139 | 0.11163 | 0.32344 | 0.999915 | 139 | 3 | -0.76884 |
| SOD2 | 10 | 137 | 0.068383 | 0.23561 | 0.823792 | 137 | 6 | -0.91869 | 437 | 0.82281 | 0.93568 | 0.999915 | 437 | 2 | -0.91869 |
| METAP1D | 10 | 138 | 0.069365 | 0.23824 | 0.826932 | 138 | 7 | -0.82186 | 354 | 0.5181 | 0.77813 | 0.999915 | 354 | 3 | -0.82186 |
| VWF | 10 | 139 | 0.071533 | 0.24393 | 0.83289 | 139 | 7 | -0.58192 | 444 | 0.84588 | 0.94628 | 0.999915 | 444 | 2 | -0.58192 |
| CYP2S1 | 10 | 140 | 0.07169 | 0.24432 | 0.83289 | 140 | 7 | -0.6291 | 159 | 0.13571 | 0.36961 | 0.999915 | 159 | 2 | -0.6291 |
| EXO5 | 10 | 141 | 0.073268 | 0.24863 | 0.83289 | 141 | 6 | -0.85873 | 370 | 0.56824 | 0.81142 | 0.999915 | 370 | 4 | -0.85873 |
| GALT | 10 | 142 | 0.07343 | 0.24893 | 0.83289 | 142 | 7 | -0.59443 | 475 | 0.99677 | 0.99698 | 0.999915 | 475 | 0 | -0.59443 |
| FTMT | 10 | 143 | 0.074093 | 0.25072 | 0.83289 | 143 | 5 | -0.49172 | 111 | 0.07907 | 0.25737 | 0.999915 | 111 | 4 | -0.49172 |
| MCOLN1 | 10 | 144 | 0.074538 | 0.25189 | 0.83289 | 144 | 3 | 4.7183 | 51 | 0.025824 | 0.10958 | 0.999915 | 51 | 6 | 4.7183 |
| HRG | 10 | 145 | 0.074656 | 0.25213 | 0.83289 | 145 | 6 | -0.81401 | 79 | 0.046675 | 0.17404 | 0.999915 | 79 | 3 | -0.81401 |
| TMPPE | 10 | 146 | 0.077166 | 0.25875 | 0.848907 | 146 | 7 | -0.54517 | 284 | 0.34876 | 0.64618 | 0.999915 | 284 | 2 | -0.54517 |
| KIF4A | 10 | 147 | 0.079378 | 0.26437 | 0.85112 | 147 | 5 | -0.27139 | 124 | 0.095315 | 0.2908 | 0.999915 | 124 | 4 | -0.27139 |
| CNNM2 | 10 | 148 | 0.079574 | 0.26485 | 0.85112 | 148 | 5 | -0.52852 | 368 | 0.56573 | 0.80965 | 0.999915 | 368 | 3 | -0.52852 |
| COX5A | 10 | 149 | 0.080002 | 0.26589 | 0.85112 | 149 | 4 | 0.36036 | 313 | 0.40104 | 0.69886 | 0.999915 | 313 | 4 | 0.36036 |
| MMS19 | 10 | 150 | 0.080987 | 0.26837 | 0.85112 | 150 | 6 | -0.64738 | 337 | 0.46384 | 0.74239 | 0.999915 | 337 | 4 | -0.64738 |
| PIR | 10 | 151 | 0.082107 | 0.27113 | 0.85112 | 151 | 4 | 0.092504 | 372 | 0.57812 | 0.81779 | 0.999915 | 372 | 4 | 0.092504 |
| HBE1 | 10 | 152 | 0.08362 | 0.2749 | 0.85112 | 152 | 4 | 1.5249 | 70 | 0.040779 | 0.15612 | 0.999915 | 70 | 5 | 1.5249 |
| PER1 | 10 | 153 | 0.084193 | 0.27594 | 0.85112 | 153 | 6 | -0.58278 | 382 | 0.60402 | 0.83506 | 0.999915 | 382 | 4 | -0.58278 |
| ALKBH2 | 10 | 154 | 0.084196 | 0.27595 | 0.85112 | 154 | 4 | 2.2474 | 68 | 0.039212 | 0.15173 | 0.999915 | 68 | 5 | 2.2474 |
| CYCS | 10 | 155 | 0.086007 | 0.27962 | 0.85112 | 155 | 6 | -0.76838 | 442 | 0.83541 | 0.94152 | 0.999915 | 442 | 3 | -0.76838 |
| DOHH | 10 | 156 | 0.08698 | 0.2815 | 0.85112 | 156 | 6 | -0.78861 | 457 | 0.9295 | 0.97129 | 0.999915 | 457 | 1 | -0.78861 |
| KIF4B | 10 | 157 | 0.087302 | 0.28211 | 0.85112 | 157 | 6 | -0.72591 | 38 | 0.019763 | 0.089944 | 0.999915 | 38 | 3 | -0.72591 |
| CYB5B | 10 | 158 | 0.087774 | 0.28305 | 0.85112 | 158 | 6 | -0.73859 | 250 | 0.27655 | 0.56749 | 0.999915 | 250 | 3 | -0.73859 |
| NOX3 | 10 | 159 | 0.088173 | 0.28383 | 0.85112 | 159 | 5 | 1.7439 | 80 | 0.048568 | 0.1799 | 0.999915 | 80 | 5 | 1.7439 |
| ALKBH4 | 10 | 160 | 0.092155 | 0.2913 | 0.85112 | 160 | 5 | -0.09241 | 176 | 0.15825 | 0.41002 | 0.999915 | 176 | 4 | -0.09241 |
| P4HTM | 10 | 161 | 0.092175 | 0.29133 | 0.85112 | 161 | 5 | -0.44787 | 342 | 0.48 | 0.75304 | 0.999915 | 342 | 3 | -0.44787 |
| KDM8 | 10 | 162 | 0.093034 | 0.29314 | 0.85112 | 162 | 6 | -0.65376 | 408 | 0.70214 | 0.88531 | 0.999915 | 408 | 3 | -0.65376 |
| BRIP1 | 10 | 163 | 0.09474 | 0.2964 | 0.85112 | 163 | 6 | -0.74054 | 353 | 0.51341 | 0.77519 | 0.999915 | 353 | 4 | -0.74054 |
| P4HA3 | 10 | 164 | 0.094944 | 0.29686 | 0.85112 | 164 | 6 | -0.81739 | 436 | 0.8225 | 0.93562 | 0.999915 | 436 | 2 | -0.81739 |
| EIF2AK1 | 10 | 165 | 0.096125 | 0.29928 | 0.85112 | 165 | 6 | -0.73397 | 289 | 0.35626 | 0.654 | 0.999915 | 289 | 2 | -0.73397 |
| CA6 | 10 | 166 | 0.096592 | 0.30021 | 0.85112 | 166 | 6 | -0.74289 | 441 | 0.83513 | 0.94137 | 0.999915 | 441 | 3 | -0.74289 |
| ACO2 | 10 | 167 | 0.096937 | 0.30089 | 0.85112 | 167 | 6 | -0.76208 | 309 | 0.39594 | 0.6939 | 0.999915 | 309 | 3 | -0.76208 |
| BCMO1 | 10 | 168 | 0.097215 | 0.3013 | 0.85112 | 168 | 6 | -0.80342 | 82 | 0.049992 | 0.18408 | 0.999915 | 82 | 2 | -0.80342 |
| EML6 | 10 | 169 | 0.098469 | 0.30404 | 0.85112 | 169 | 6 | -0.76759 | 460 | 0.93618 | 0.97357 | 0.999915 | 460 | 2 | -0.76759 |
| SLC39A5 | 10 | 170 | 0.10125 | 0.30961 | 0.85112 | 170 | 5 | -0.6124 | 424 | 0.75314 | 0.90603 | 0.999915 | 424 | 3 | -0.6124 |
| STEAP1 | 10 | 171 | 0.10167 | 0.31035 | 0.85112 | 171 | 5 | 2.0539 | 136 | 0.11107 | 0.32233 | 0.999915 | 136 | 5 | 2.0539 |
| APBB1 | 10 | 172 | 0.10186 | 0.31071 | 0.85112 | 172 | 6 | -0.81158 | 476 | 0.99691 | 0.9971 | 0.999915 | 476 | 0 | -0.81158 |
| CYP26B1 | 10 | 173 | 0.10386 | 0.31438 | 0.85112 | 173 | 5 | -0.19995 | 422 | 0.75098 | 0.90512 | 0.999915 | 422 | 2 | -0.19995 |
| PLOD2 | 10 | 174 | 0.10481 | 0.3162 | 0.85112 | 174 | 3 | 5.3962 | 42 | 0.021596 | 0.096178 | 0.999915 | 42 | 7 | 5.3962 |
| TSHZ2 | 10 | 175 | 0.10638 | 0.31943 | 0.85112 | 175 | 3 | 0.33875 | 216 | 0.20771 | 0.48646 | 0.999915 | 216 | 4 | 0.33875 |
| FECH | 10 | 176 | 0.10699 | 0.32049 | 0.85112 | 176 | 4 | -0.33532 | 351 | 0.50639 | 0.77029 | 0.999915 | 351 | 4 | -0.33532 |
| CYP4F12 | 10 | 177 | 0.10794 | 0.32216 | 0.85112 | 177 | 5 | -0.5062 | 429 | 0.78712 | 0.92019 | 0.999915 | 429 | 3 | -0.5062 |
| DEGS1 | 10 | 178 | 0.10951 | 0.32515 | 0.85112 | 178 | 5 | -0.03366 | 320 | 0.42398 | 0.71548 | 0.999915 | 320 | 4 | -0.03366 |
| OGFOD2 | 10 | 179 | 0.11263 | 0.33093 | 0.85112 | 179 | 4 | 2.7965 | 110 | 0.077874 | 0.25473 | 0.999915 | 110 | 5 | 2.7965 |
| HBQ1 | 10 | 180 | 0.11526 | 0.33583 | 0.85112 | 180 | 6 | -0.79775 | 236 | 0.24052 | 0.52577 | 0.999915 | 236 | 4 | -0.79775 |
| ABL1 | 10 | 181 | 0.11595 | 0.33704 | 0.85112 | 181 | 6 | -0.78263 | 347 | 0.49655 | 0.76367 | 0.999915 | 347 | 3 | -0.78263 |
| CISD2 | 10 | 182 | 0.11675 | 0.33836 | 0.85112 | 182 | 6 | -0.77499 | 228 | 0.23099 | 0.51428 | 0.999915 | 228 | 3 | -0.77499 |
| TF | 10 | 183 | 0.11689 | 0.33859 | 0.85112 | 183 | 6 | -0.69601 | 379 | 0.59968 | 0.83215 | 0.999915 | 379 | 3 | -0.69601 |
| CYP3A7 | 10 | 184 | 0.11729 | 0.33932 | 0.85112 | 184 | 3 | 1.914 | 77 | 0.045174 | 0.16983 | 0.999915 | 77 | 5 | 1.914 |
| ALKBH5 | 10 | 185 | 0.11783 | 0.34032 | 0.85112 | 185 | 6 | -0.66486 | 427 | 0.77012 | 0.91279 | 0.999915 | 427 | 3 | -0.66486 |
| ABCG2 | 10 | 186 | 0.11786 | 0.34036 | 0.85112 | 186 | 5 | -0.38805 | 380 | 0.60119 | 0.8331 | 0.999915 | 380 | 1 | -0.38805 |
| ADO | 10 | 187 | 0.1183 | 0.34116 | 0.85112 | 187 | 6 | -0.68147 | 398 | 0.64671 | 0.86189 | 0.999915 | 398 | 4 | -0.68147 |
| HBB | 10 | 188 | 0.11898 | 0.34242 | 0.85112 | 188 | 5 | -0.15073 | 349 | 0.50077 | 0.76653 | 0.999915 | 349 | 4 | -0.15073 |
| PPAT | 10 | 189 | 0.11938 | 0.34325 | 0.85112 | 189 | 5 | 1.7563 | 212 | 0.20058 | 0.47823 | 0.999915 | 212 | 5 | 1.7563 |
| HBZ | 10 | 190 | 0.11961 | 0.34367 | 0.85112 | 190 | 5 | 1.028 | 268 | 0.32231 | 0.61856 | 0.999915 | 268 | 5 | 1.028 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FABP7 | 10 | 191 | 0.12303 | 0.35044 | 0.85112 | 191 | 6 | -0.60171 | 381 | 0.60348 | 0.83473 | 0.999915 | 381 | 3 | -0.60171 |
| CYP7B1 | 10 | 192 | 0.12398 | 0.35209 | 0.85112 | 192 | 5 | 2.0334 | 28 | 0.012929 | 0.064564 | 0.999915 | 28 | 5 | 2.0334 |
| CYB5R1 | 10 | 193 | 0.1246 | 0.35333 | 0.85112 | 193 | 6 | -0.62202 | 362 | 0.55411 | 0.80203 | 0.999915 | 362 | 4 | -0.62202 |
| NOS1 | 10 | 194 | 0.12478 | 0.35368 | 0.85112 | 194 | 6 | -0.70317 | 235 | 0.23917 | 0.52401 | 0.999915 | 235 | 2 | -0.70317 |
| CIAPIN1 | 10 | 195 | 0.12501 | 0.35409 | 0.85112 | 195 | 4 | 0.69261 | 307 | 0.38338 | 0.68095 | 0.999915 | 307 | 5 | 0.69261 |
| SLC39A9 | 10 | 196 | 0.12584 | 0.35572 | 0.85112 | 196 | 5 | -0.4523 | 280 | 0.33974 | 0.63666 | 0.999915 | 280 | 3 | -0.4523 |
| HCCS | 10 | 197 | 0.12616 | 0.35636 | 0.85112 | 197 | 5 | -0.45066 | 377 | 0.59586 | 0.82968 | 0.999915 | 377 | 3 | -0.45066 |
| CYBRD1 | 10 | 198 | 0.12654 | 0.35704 | 0.85112 | 198 | 2 | 4.8748 | 72 | 0.042389 | 0.16115 | 0.999915 | 72 | 7 | 4.8748 |
| JMJD4 | 10 | 199 | 0.1271 | 0.35807 | 0.85112 | 199 | 5 | 0.43953 | 260 | 0.30305 | 0.59719 | 0.999915 | 260 | 5 | 0.43953 |
| CYBA | 10 | 200 | 0.13114 | 0.36579 | 0.85112 | 200 | 4 | 3.6707 | 7 | 0.0019661 | 0.012481 | 0.854082 | 7 | 5 | 3.6707 |
| HDAC1 | 10 | 201 | 0.13148 | 0.36628 | 0.85112 | 201 | 5 | -0.50175 | 27 | 0.011296 | 0.057675 | 0.999915 | 27 | 4 | -0.50175 |
| SRC | 10 | 202 | 0.13197 | 0.36713 | 0.85112 | 202 | 6 | -0.65435 | 229 | 0.23105 | 0.51437 | 0.999915 | 229 | 4 | -0.65435 |
| FA2H | 10 | 203 | 0.13408 | 0.37069 | 0.85112 | 203 | 4 | -0.26913 | 328 | 0.44934 | 0.73286 | 0.999915 | 328 | 4 | -0.26913 |
| MARK3 | 10 | 204 | 0.13534 | 0.37304 | 0.85112 | 204 | 3 | 2.3499 | 222 | 0.22506 | 0.50744 | 0.999915 | 222 | 5 | 2.3499 |
| JMJD1C | 10 | 205 | 0.13571 | 0.37367 | 0.85112 | 205 | 2 | 5.8812 | 13 | 0.0051805 | 0.028487 | 0.965406 | 13 | 7 | 5.8812 |
| COPA | 10 | 206 | 0.13635 | 0.37473 | 0.85112 | 206 | 5 | -0.39611 | 304 | 0.37899 | 0.67681 | 0.999915 | 304 | 4 | -0.39611 |
| CYP2J2 | 10 | 207 | 0.13732 | 0.37639 | 0.85112 | 207 | 6 | -0.74094 | 291 | 0.35755 | 0.65527 | 0.999915 | 291 | 3 | -0.74094 |
| PXDN | 10 | 208 | 0.13812 | 0.37761 | 0.85112 | 208 | 6 | -0.71431 | 214 | 0.20458 | 0.48305 | 0.999915 | 214 | 1 | -0.71431 |
| TH | 10 | 209 | 0.13875 | 0.37885 | 0.85112 | 209 | 4 | 0.036933 | 97 | 0.06642 | 0.23041 | 0.999915 | 97 | 4 | 0.036933 |
| CYP4F8 | 10 | 210 | 0.13915 | 0.37957 | 0.85112 | 210 | 4 | 3.7636 | 123 | 0.09474 | 0.28937 | 0.999915 | 123 | 6 | 3.7636 |
| APBB2 | 10 | 211 | 0.13952 | 0.38029 | 0.85112 | 211 | 4 | 2.1623 | 175 | 0.15823 | 0.40995 | 0.999915 | 175 | 5 | 2.1623 |
| BOLA1 | 10 | 212 | 0.14037 | 0.3819 | 0.85112 | 212 | 4 | -0.35385 | 392 | 0.62908 | 0.85091 | 0.999915 | 392 | 3 | -0.35385 |
| CYP2C18 | 10 | 213 | 0.14046 | 0.38206 | 0.85112 | 213 | 5 | -0.59399 | 430 | 0.79221 | 0.9222 | 0.999915 | 430 | 3 | -0.59399 |
| MPPED1 | 10 | 214 | 0.14159 | 0.3841 | 0.85112 | 214 | 5 | 0.9362 | 156 | 0.13419 | 0.36667 | 0.999915 | 156 | 5 | 0.9362 |
| KDM6B | 10 | 215 | 0.14202 | 0.38478 | 0.85112 | 215 | 4 | -0.12332 | 412 | 0.70888 | 0.88793 | 0.999915 | 412 | 3 | -0.12332 |
| KDM5D | 10 | 216 | 0.14328 | 0.38695 | 0.85112 | 216 | 3 | -0.00202 | 256 | 0.29423 | 0.58705 | 0.999915 | 256 | 3 | -0.00202 |
| CBS | 10 | 217 | 0.14372 | 0.38762 | 0.85112 | 217 | 4 | 1.9162 | 259 | 0.29747 | 0.59059 | 0.999915 | 259 | 5 | 1.9162 |
| MPO | 10 | 218 | 0.14574 | 0.39077 | 0.85112 | 218 | 5 | -0.10031 | 355 | 0.52273 | 0.78097 | 0.999915 | 355 | 4 | -0.10031 |
| LRP1 | 10 | 219 | 0.14609 | 0.39136 | 0.85112 | 219 | 5 | -0.4378 | 183 | 0.16931 | 0.42899 | 0.999915 | 183 | 3 | -0.4378 |
| LIAS | 10 | 220 | 0.14684 | 0.39269 | 0.85112 | 220 | 5 | -0.61934 | 420 | 0.74326 | 0.90183 | 0.999915 | 420 | 3 | -0.61934 |
| FTL | 10 | 221 | 0.15098 | 0.4 | 0.863074 | 221 | 6 | -0.68127 | 426 | 0.7674 | 0.91182 | 0.999915 | 426 | 2 | -0.68127 |
| STEAP3 | 10 | 222 | 0.15258 | 0.4029 | 0.865417 | 222 | 6 | -0.69844 | 321 | 0.4344 | 0.72261 | 0.999915 | 321 | 3 | -0.69844 |
| CYGB | 10 | 223 | 0.15379 | 0.40501 | 0.866061 | 223 | 3 | 2.4077 | 194 | 0.18284 | 0.45142 | 0.999915 | 194 | 6 | 2.4077 |
| BOLA3 | 10 | 224 | 0.15528 | 0.40769 | 0.867926 | 224 | 4 | 2.9511 | 171 | 0.15175 | 0.39826 | 0.999915 | 171 | 6 | 2.9511 |
| EGLN3 | 10 | 225 | 0.15677 | 0.41028 | 0.869585 | 225 | 4 | -0.23431 | 322 | 0.43445 | 0.72263 | 0.999915 | 322 | 3 | -0.23431 |
| SLC40A1 | 10 | 226 | 0.16161 | 0.41844 | 0.880474 | 226 | 5 | -0.59931 | 431 | 0.81653 | 0.93299 | 0.999915 | 431 | 2 | -0.59931 |
| KDM3A | 10 | 227 | 0.16241 | 0.41973 | 0.880474 | 227 | 6 | -0.67343 | 272 | 0.32855 | 0.62509 | 0.999915 | 272 | 2 | -0.67343 |
| UBE2D1 | 10 | 228 | 0.16413 | 0.4225 | 0.880474 | 228 | 6 | -0.71369 | 221 | 0.22378 | 0.50587 | 0.999915 | 221 | 4 | -0.71369 |
| FOLH1 | 10 | 229 | 0.16565 | 0.42506 | 0.880474 | 229 | 6 | -0.63483 | 348 | 0.49749 | 0.76426 | 0.999915 | 348 | 2 | -0.63483 |
| TET2 | 10 | 230 | 0.16645 | 0.42632 | 0.880474 | 230 | 5 | -0.04736 | 373 | 0.57953 | 0.81877 | 0.999915 | 373 | 4 | -0.04736 |
| IDO1 | 10 | 231 | 0.17006 | 0.43221 | 0.880474 | 231 | 2 | 5.2183 | 21 | 0.0091729 | 0.047763 | 0.999915 | 21 | 8 | 5.2183 |
| CYP4B1 | 10 | 232 | 0.17083 | 0.43379 | 0.880474 | 232 | 3 | 3.7559 | 91 | 0.059526 | 0.2113 | 0.999915 | 91 | 6 | 3.7559 |
| AMDHD1 | 10 | 233 | 0.17146 | 0.43481 | 0.880474 | 233 | 3 | 0.27305 | 211 | 0.19986 | 0.47731 | 0.999915 | 211 | 4 | 0.27305 |
| DPH1 | 10 | 234 | 0.17152 | 0.43495 | 0.880474 | 234 | 5 | -0.47786 | 277 | 0.33262 | 0.62927 | 0.999915 | 277 | 4 | -0.47786 |
| KDM3B | 10 | 235 | 0.17241 | 0.43632 | 0.880474 | 235 | 4 | 2.1278 | 149 | 0.12073 | 0.34066 | 0.999915 | 149 | 5 | 2.1278 |
| NDUFV2 | 10 | 236 | 0.17298 | 0.43724 | 0.880474 | 236 | 5 | 1.8958 | 206 | 0.19272 | 0.468 | 0.999915 | 206 | 5 | 1.8958 |
| HAAO | 10 | 237 | 0.1732 | 0.43758 | 0.880474 | 237 | 5 | -0.46954 | 300 | 0.36438 | 0.66209 | 0.999915 | 300 | 2 | -0.46954 |
| RASD1 | 10 | 238 | 0.17736 | 0.44387 | 0.880474 | 238 | 3 | 2.0711 | 160 | 0.13874 | 0.37492 | 0.999915 | 160 | 6 | 2.0711 |
| APBB3 | 10 | 239 | 0.17768 | 0.44434 | 0.880474 | 239 | 6 | -0.5672 | 327 | 0.4427 | 0.7283 | 0.999915 | 327 | 3 | -0.5672 |
| CYB5R4 | 10 | 240 | 0.17776 | 0.44448 | 0.880474 | 240 | 3 | 1.9401 | 65 | 0.036545 | 0.14369 | 0.999915 | 65 | 5 | 1.9401 |
| OGFOD1 | 10 | 241 | 0.17828 | 0.4453 | 0.880474 | 241 | 6 | -0.57161 | 369 | 0.56736 | 0.81084 | 0.999915 | 369 | 2 | -0.57161 |
| SUOX | 10 | 242 | 0.17907 | 0.44675 | 0.880474 | 242 | 4 | 2.2784 | 191 | 0.17956 | 0.44598 | 0.999915 | 191 | 5 | 2.2784 |
| CYP1A1 | 10 | 243 | 0.1801 | 0.44851 | 0.880474 | 243 | 6 | -0.52098 | 402 | 0.67335 | 0.87427 | 0.999915 | 402 | 2 | -0.52098 |
| CYP39A1 | 10 | 244 | 0.18171 | 0.45099 | 0.88174 | 244 | 3 | 3.3691 | 168 | 0.14524 | 0.38635 | 0.999915 | 168 | 6 | 3.3691 |
| ATP6V1A | 10 | 245 | 0.18726 | 0.45992 | 0.887943 | 245 | 6 | -0.47058 | 276 | 0.33216 | 0.62892 | 0.999915 | 276 | 4 | -0.47058 |
| JMJD8 | 10 | 246 | 0.18748 | 0.46035 | 0.887943 | 246 | 5 | -0.32468 | 279 | 0.33867 | 0.63544 | 0.999915 | 279 | 4 | -0.32468 |
| NDUFS1 | 10 | 247 | 0.18802 | 0.46138 | 0.887943 | 247 | 4 | 2.1391 | 186 | 0.17327 | 0.43576 | 0.999915 | 186 | 5 | 2.1391 |
| DEGS2 | 10 | 248 | 0.18861 | 0.46249 | 0.887943 | 248 | 4 | -0.05904 | 173 | 0.15512 | 0.40451 | 0.999915 | 173 | 4 | -0.05904 |
| PXDNL | 10 | 249 | 0.18953 | 0.46394 | 0.887943 | 249 | 5 | 2.2109 | 66 | 0.036662 | 0.14398 | 0.999915 | 66 | 5 | 2.2109 |
| NUBPL | 10 | 250 | 0.19036 | 0.46529 | 0.887943 | 250 | 6 | -0.65472 | 452 | 0.90537 | 0.96367 | 0.999915 | 452 | 2 | -0.65472 |
| TPO | 10 | 251 | 0.19179 | 0.46758 | 0.888766 | 251 | 3 | 1.4736 | 114 | 0.084193 | 0.26812 | 0.999915 | 114 | 5 | 1.4736 |
| ATP6V0A2 | 10 | 252 | 0.19694 | 0.47586 | 0.891862 | 252 | 5 | -0.36471 | 294 | 0.35861 | 0.65622 | 0.999915 | 294 | 4 | -0.36471 |
| HPDL | 10 | 253 | 0.19714 | 0.47628 | 0.891862 | 253 | 5 | -0.55113 | 270 | 0.32623 | 0.62292 | 0.999915 | 270 | 4 | -0.55113 |
| CYB561 | 10 | 254 | 0.19716 | 0.4763 | 0.891862 | 254 | 5 | 2.1929 | 134 | 0.10842 | 0.31701 | 0.999915 | 134 | 5 | 2.1929 |
| ETHE1 | 10 | 255 | 0.1974 | 0.47665 | 0.891862 | 255 | 3 | 4.0862 | 45 | 0.023164 | 0.10103 | 0.999915 | 45 | 6 | 4.0862 |
| KDM5C | 10 | 256 | 0.20076 | 0.48206 | 0.896349 | 256 | 6 | -0.4937 | 161 | 0.14177 | 0.38076 | 0.999915 | 161 | 3 | -0.4937 |
| FADS2 | 10 | 257 | 0.20282 | 0.48514 | 0.896349 | 257 | 2 | 3.7599 | 131 | 0.10687 | 0.31415 | 0.999915 | 131 | 6 | 3.7599 |
| MUTYH | 10 | 258 | 0.20492 | 0.48838 | 0.896349 | 258 | 5 | -0.46763 | 122 | 0.093763 | 0.28741 | 0.999915 | 122 | 2 | -0.46763 |
| TET1 | 10 | 259 | 0.20542 | 0.48907 | 0.896349 | 259 | 2 | 4.1659 | 74 | 0.043573 | 0.16496 | 0.999915 | 74 | 7 | 4.1659 |
| GSTP1 | 10 | 260 | 0.20579 | 0.48958 | 0.896349 | 260 | 5 | -0.57112 | 290 | 0.35742 | 0.65515 | 0.999915 | 290 | 2 | -0.57112 |
| AIFM3 | 10 | 261 | 0.20684 | 0.49107 | 0.896349 | 261 | 5 | -0.14659 | 383 | 0.60973 | 0.83862 | 0.999915 | 383 | 4 | -0.14659 |
| NGB | 10 | 262 | 0.20858 | 0.49349 | 0.896349 | 262 | 6 | -0.51561 | 273 | 0.33033 | 0.62695 | 0.999915 | 273 | 4 | -0.51561 |
| APBA1 | 10 | 263 | 0.20894 | 0.49407 | 0.896349 | 263 | 5 | -0.25846 | 92 | 0.05988 | 0.2124 | 0.999915 | 92 | 3 | -0.25846 |
| TPH2 | 10 | 264 | 0.21221 | 0.49891 | 0.896349 | 264 | 6 | -0.50229 | 385 | 0.61241 | 0.84019 | 0.999915 | 385 | 3 | -0.50229 |
| DUOX2 | 10 | 265 | 0.21301 | 0.50008 | 0.896349 | 265 | 4 | 0.4354 | 238 | 0.24336 | 0.52924 | 0.999915 | 238 | 4 | 0.4354 |
| CYB5D2 | 10 | 266 | 0.21326 | 0.50041 | 0.896349 | 266 | 5 | -0.52296 | 405 | 0.68152 | 0.87736 | 0.999915 | 405 | 2 | -0.52296 |
| CYP2D6 | 10 | 267 | 0.21388 | 0.50151 | 0.896349 | 267 | 5 | 1.9216 | 162 | 0.14247 | 0.38193 | 0.999915 | 162 | 5 | 1.9216 |
| PGRMC2 | 10 | 268 | 0.21622 | 0.50513 | 0.899478 | 268 | 6 | -0.55686 | 324 | 0.43543 | 0.72341 | 0.999915 | 324 | 3 | -0.55686 |
| CYP8B1 | 10 | 269 | 0.22179 | 0.51386 | 0.911631 | 269 | 5 | -0.51397 | 188 | 0.1759 | 0.43996 | 0.999915 | 188 | 2 | -0.51397 |
| LDHD | 10 | 270 | 0.22687 | 0.52096 | 0.919073 | 270 | 3 | 1.8954 | 230 | 0.23536 | 0.5195 | 0.999915 | 230 | 5 | 1.8954 |
| HBG2 | 3 | 271 | 0.22688 | 0.35625 | 0.85112 | 271 | 2 | -0.87497 | 335 | 0.46197 | 0.5636 | 0.999915 | 335 | 1 | -0.87497 |
| METAP1 | 10 | 272 | 0.22825 | 0.52243 | 0.919073 | 272 | 3 | 2.7624 | 117 | 0.089488 | 0.27899 | 0.999915 | 117 | 5 | 2.7624 |
| CYP27C1 | 10 | 273 | 0.23095 | 0.52538 | 0.919073 | 273 | 5 | -0.23751 | 245 | 0.259 | 0.54806 | 0.999915 | 245 | 4 | -0.23751 |
| SCARA5 | 10 | 274 | 0.23304 | 0.52765 | 0.919073 | 274 | 4 | 0.46197 | 207 | 0.19322 | 0.4686 | 0.999915 | 207 | 4 | 0.46197 |
| PHYH | 10 | 275 | 0.23509 | 0.53007 | 0.919073 | 275 | 1 | 5.1335 | 50 | 0.025624 | 0.10901 | 0.999915 | 50 | 6 | 5.1335 |
| RSAD1 | 10 | 276 | 0.23573 | 0.53078 | 0.919073 | 276 | 5 | 1.683 | 209 | 0.19749 | 0.47424 | 0.999915 | 209 | 5 | 1.683 |
| CYP24A1 | 10 | 277 | 0.23645 | 0.53149 | 0.919073 | 277 | 3 | 3.3221 | 150 | 0.12115 | 0.34144 | 0.999915 | 150 | 6 | 3.3221 |
| SLC22A17 | 10 | 278 | 0.24252 | 0.53855 | 0.922393 | 278 | 5 | -0.38756 | 401 | 0.65731 | 0.86778 | 0.999915 | 401 | 3 | -0.38756 |
| METAP2 | 10 | 279 | 0.24322 | 0.53932 | 0.922393 | 279 | 4 | 0.094211 | 242 | 0.25248 | 0.54037 | 0.999915 | 242 | 4 | 0.094211 |
| KDM4D | 10 | 280 | 0.24457 | 0.54096 | 0.922393 | 280 | 3 | 3.0707 | 179 | 0.16528 | 0.422 | 0.999915 | 179 | 6 | 3.0707 |
| SLC39A7 | 10 | 281 | 0.24662 | 0.5432 | 0.922393 | 281 | 5 | 0.42024 | 301 | 0.37337 | 0.6712 | 0.999915 | 301 | 5 | 0.42024 |
| CYP2A13 | 10 | 282 | 0.24726 | 0.54392 | 0.922393 | 282 | 3 | 4.5573 | 102 | 0.071765 | 0.24168 | 0.999915 | 102 | 6 | 4.5573 |
| TYW5 | 10 | 283 | 0.24902 | 0.54583 | 0.922393 | 283 | 3 | 2.7654 | 120 | 0.091974 | 0.28367 | 0.999915 | 120 | 5 | 2.7654 |
| SLC39A2 | 10 | 284 | 0.24994 | 0.54689 | 0.922393 | 284 | 4 | 3.0382 | 58 | 0.030948 | 0.12639 | 0.999915 | 58 | 6 | 3.0382 |
| HEBP1 | 10 | 285 | 0.25541 | 0.55347 | 0.930217 | 285 | 5 | 0.11636 | 112 | 0.079378 | 0.25803 | 0.999915 | 112 | 4 | 0.11636 |
| SLC39A11 | 10 | 286 | 0.25773 | 0.5559 | 0.931027 | 286 | 4 | 0.080145 | 399 | 0.64785 | 0.8626 | 0.999915 | 399 | 3 | 0.080145 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FDX1L | 10 | 287 | 0.2631 | 0.56172 | 0.931541 | 287 | 5 | -0.43113 | 456 | 0.92691 | 0.97039 | 0.999915 | 456 | 2 | -0.43113 |
| HSPA6 | 10 | 288 | 0.26403 | 0.56276 | 0.931541 | 288 | 4 | 3.9619 | 143 | 0.11292 | 0.32573 | 0.999915 | 143 | 6 | 3.9619 |
| CLSTN2 | 10 | 289 | 0.26511 | 0.5639 | 0.931541 | 289 | 5 | -0.24259 | 374 | 0.58295 | 0.82117 | 0.999915 | 374 | 4 | -0.24259 |
| KDM6A | 10 | 290 | 0.26585 | 0.56465 | 0.931541 | 290 | 2 | 4.151 | 90 | 0.059283 | 0.21078 | 0.999915 | 90 | 6 | 4.151 |
| NIPAL1 | 10 | 291 | 0.26716 | 0.56593 | 0.931541 | 291 | 3 | 2.188 | 73 | 0.043348 | 0.16424 | 0.999915 | 73 | 5 | 2.188 |
| PPP3CB | 10 | 292 | 0.2779 | 0.57685 | 0.937975 | 292 | 3 | 5.9598 | 22 | 0.0094201 | 0.048916 | 0.999915 | 22 | 6 | 5.9598 |
| ALKBH6 | 10 | 293 | 0.27888 | 0.57778 | 0.937975 | 293 | 4 | -0.23237 | 287 | 0.35548 | 0.65313 | 0.999915 | 287 | 4 | -0.23237 |
| NOX4 | 10 | 294 | 0.28599 | 0.58492 | 0.937975 | 294 | 4 | -0.16148 | 316 | 0.4021 | 0.69997 | 0.999915 | 316 | 3 | -0.16148 |
| ALOXE3 | 10 | 295 | 0.2885 | 0.58785 | 0.937975 | 295 | 4 | 0.20062 | 293 | 0.35817 | 0.65586 | 0.999915 | 293 | 3 | 0.20062 |
| GUCY1A3 | 10 | 296 | 0.29004 | 0.5896 | 0.937975 | 296 | 4 | -0.1531 | 281 | 0.34001 | 0.63697 | 0.999915 | 281 | 3 | -0.1531 |
| ENAH | 10 | 297 | 0.29042 | 0.58996 | 0.937975 | 297 | 4 | 0.22939 | 192 | 0.18026 | 0.44735 | 0.999915 | 192 | 4 | 0.22939 |
| KDM4E | 10 | 298 | 0.29057 | 0.59017 | 0.937975 | 298 | 5 | -0.22322 | 225 | 0.22825 | 0.5111 | 0.999915 | 225 | 3 | -0.22322 |
| PPP3CA | 10 | 299 | 0.29274 | 0.59255 | 0.937975 | 299 | 4 | 0.49323 | 319 | 0.42048 | 0.71304 | 0.999915 | 319 | 3 | 0.49323 |
| ALOX5 | 10 | 300 | 0.293 | 0.59284 | 0.937975 | 300 | 5 | 1.1628 | 48 | 0.024715 | 0.1061 | 0.999915 | 48 | 5 | 1.1628 |
| CYB5R3 | 10 | 301 | 0.29423 | 0.59419 | 0.937975 | 301 | 4 | 1.5695 | 8 | 0.002598 | 0.01615 | 0.925661 | 8 | 5 | 1.5695 |
| CYP11B2 | 10 | 302 | 0.29676 | 0.59674 | 0.937975 | 302 | 3 | 4.7504 | 15 | 0.0060525 | 0.032712 | 0.965406 | 15 | 6 | 4.7504 |
| IREB2 | 10 | 303 | 0.29882 | 0.59917 | 0.937975 | 303 | 4 | 1.4594 | 247 | 0.26283 | 0.5524 | 0.999915 | 247 | 5 | 1.4594 |
| MDM4 | 10 | 304 | 0.29952 | 0.60002 | 0.937975 | 304 | 5 | 1.0138 | 296 | 0.35982 | 0.65744 | 0.999915 | 296 | 5 | 1.0138 |
| PDE4D | 10 | 305 | 0.30141 | 0.60192 | 0.937975 | 305 | 3 | 0.28916 | 141 | 0.11218 | 0.32458 | 0.999915 | 141 | 4 | 0.28916 |
| REV3L | 10 | 306 | 0.30305 | 0.60359 | 0.937975 | 306 | 3 | 4.2436 | 63 | 0.033677 | 0.13505 | 0.999915 | 63 | 7 | 4.2436 |
| NENF | 10 | 307 | 0.30497 | 0.60572 | 0.937975 | 307 | 4 | 2.0949 | 170 | 0.14831 | 0.39204 | 0.999915 | 170 | 5 | 2.0949 |
| CYP11B1 | 10 | 308 | 0.30626 | 0.60706 | 0.937975 | 308 | 4 | 2.8421 | 78 | 0.04596 | 0.17205 | 0.999915 | 78 | 5 | 2.8421 |
| KIAA1456 | 10 | 309 | 0.31146 | 0.61228 | 0.937975 | 309 | 5 | 1.6908 | 23 | 0.0097641 | 0.050696 | 0.999915 | 23 | 5 | 1.6908 |
| SLC39A14 | 10 | 310 | 0.31232 | 0.61352 | 0.937975 | 310 | 4 | 0.32807 | 350 | 0.50592 | 0.77 | 0.999915 | 350 | 4 | 0.32807 |
| SETD7 | 10 | 311 | 0.31354 | 0.61483 | 0.937975 | 311 | 5 | -0.47232 | 400 | 0.65051 | 0.86419 | 0.999915 | 400 | 2 | -0.47232 |
| FLVCR1 | 10 | 312 | 0.31917 | 0.62064 | 0.937975 | 312 | 3 | 2.6492 | 129 | 0.098851 | 0.29802 | 0.999915 | 129 | 5 | 2.6492 |
| ATP6V1G1 | 10 | 313 | 0.31977 | 0.62113 | 0.937975 | 313 | 4 | 1.4287 | 292 | 0.35766 | 0.65539 | 0.999915 | 292 | 5 | 1.4287 |
| CYP4X1 | 10 | 314 | 0.32284 | 0.62452 | 0.937975 | 314 | 2 | 3.837 | 158 | 0.13563 | 0.36943 | 0.999915 | 158 | 6 | 3.837 |
| MAP2 | 10 | 315 | 0.32517 | 0.62704 | 0.937975 | 315 | 4 | 0.7636 | 59 | 0.03162 | 0.12862 | 0.999915 | 59 | 3 | 0.7636 |
| HAMP | 10 | 316 | 0.32609 | 0.62802 | 0.937975 | 316 | 5 | 2.0095 | 157 | 0.13423 | 0.36675 | 0.999915 | 157 | 5 | 2.0095 |
| NEK6 | 10 | 317 | 0.32649 | 0.62836 | 0.937975 | 317 | 3 | 1.3425 | 243 | 0.25498 | 0.54335 | 0.999915 | 243 | 5 | 1.3425 |
| KDM4C | 10 | 318 | 0.32693 | 0.62881 | 0.937975 | 318 | 5 | -0.4265 | 357 | 0.54397 | 0.79522 | 0.999915 | 357 | 1 | -0.4265 |
| NIF3L1 | 10 | 319 | 0.32988 | 0.6314 | 0.937975 | 319 | 5 | -0.36475 | 16 | 0.0063512 | 0.034203 | 0.965406 | 16 | 4 | -0.36475 |
| HSPBAP1 | 10 | 320 | 0.33134 | 0.63305 | 0.937975 | 320 | 5 | -0.28942 | 31 | 0.014642 | 0.071772 | 0.999915 | 31 | 4 | -0.28942 |
| TDO2 | 10 | 321 | 0.33615 | 0.63742 | 0.937975 | 321 | 5 | 1.2624 | 126 | 0.095701 | 0.29151 | 0.999915 | 126 | 5 | 1.2624 |
| CYB5R2 | 10 | 322 | 0.3395 | 0.64091 | 0.937975 | 322 | 5 | -0.0874 | 394 | 0.6389 | 0.8571 | 0.999915 | 394 | 2 | -0.0874 |
| ALB | 10 | 323 | 0.33964 | 0.64102 | 0.937975 | 323 | 5 | -0.24245 | 340 | 0.47073 | 0.74724 | 0.999915 | 340 | 4 | -0.24245 |
| FRRS1 | 10 | 324 | 0.33974 | 0.64113 | 0.937975 | 324 | 4 | 2.0873 | 193 | 0.18138 | 0.44923 | 0.999915 | 193 | 5 | 2.0873 |
| CAT | 10 | 325 | 0.34064 | 0.64199 | 0.937975 | 325 | 3 | 2.1812 | 44 | 0.022927 | 0.10025 | 0.999915 | 44 | 5 | 2.1812 |
| RPE | 10 | 326 | 0.34212 | 0.64346 | 0.937975 | 326 | 3 | 4.1044 | 87 | 0.053446 | 0.19383 | 0.999915 | 87 | 7 | 4.1044 |
| PHYHD1 | 10 | 327 | 0.34328 | 0.64471 | 0.937975 | 327 | 4 | 4.4544 | 105 | 0.073897 | 0.24623 | 0.999915 | 105 | 6 | 4.4544 |
| CYP4A22 | 10 | 328 | 0.3454 | 0.64674 | 0.937975 | 328 | 4 | 2.5452 | 202 | 0.18933 | 0.46276 | 0.999915 | 202 | 6 | 2.5452 |
| CLSTN3 | 10 | 329 | 0.34697 | 0.64841 | 0.937975 | 329 | 4 | 2.3295 | 130 | 0.10499 | 0.31042 | 0.999915 | 130 | 5 | 2.3295 |
| IRG1 | 10 | 330 | 0.34733 | 0.64882 | 0.937975 | 330 | 5 | -0.41718 | 208 | 0.1974 | 0.47414 | 0.999915 | 208 | 3 | -0.41718 |
| FXN | 10 | 331 | 0.35067 | 0.65195 | 0.937975 | 331 | 4 | 1.8431 | 223 | 0.2255 | 0.50805 | 0.999915 | 223 | 5 | 1.8431 |
| SLC11A1 | 10 | 332 | 0.35481 | 0.65594 | 0.937975 | 332 | 2 | 2.5013 | 138 | 0.11141 | 0.32292 | 0.999915 | 138 | 5 | 2.5013 |
| CYP3A43 | 10 | 333 | 0.35509 | 0.65618 | 0.937975 | 333 | 2 | 4.6372 | 49 | 0.02515 | 0.10742 | 0.999915 | 49 | 6 | 4.6372 |
| ALOX15 | 10 | 334 | 0.35593 | 0.65708 | 0.937975 | 334 | 5 | -0.08048 | 263 | 0.30693 | 0.60157 | 0.999915 | 263 | 3 | -0.08048 |
| PER3 | 10 | 335 | 0.35614 | 0.65726 | 0.937975 | 335 | 4 | 2.1361 | 95 | 0.064789 | 0.22588 | 0.999915 | 95 | 5 | 2.1361 |
| TMLHE | 10 | 336 | 0.35683 | 0.65795 | 0.937975 | 336 | 4 | 0.43029 | 227 | 0.23054 | 0.51375 | 0.999915 | 227 | 4 | 0.43029 |
| ASAH2 | 10 | 337 | 0.36156 | 0.6622 | 0.939103 | 337 | 5 | -0.29169 | 410 | 0.70537 | 0.88666 | 0.999915 | 410 | 3 | -0.29169 |
| PAPL | 10 | 338 | 0.36207 | 0.66267 | 0.939103 | 338 | 5 | -0.16715 | 391 | 0.62625 | 0.84906 | 0.999915 | 391 | 4 | -0.16715 |
| P4HA2 | 10 | 339 | 0.36783 | 0.66859 | 0.944704 | 339 | 4 | -0.26582 | 76 | 0.045012 | 0.1693 | 0.999915 | 76 | 4 | -0.26582 |
| CYB5RL | 10 | 340 | 0.37556 | 0.6758 | 0.946103 | 340 | 4 | -0.09191 | 282 | 0.34069 | 0.63759 | 0.999915 | 282 | 3 | -0.09191 |
| SLC39A1 | 10 | 341 | 0.37636 | 0.67652 | 0.946103 | 341 | 5 | -0.09478 | 395 | 0.64079 | 0.8581 | 0.999915 | 395 | 4 | -0.09478 |
| SGK1 | 10 | 342 | 0.38483 | 0.68447 | 0.946103 | 342 | 1 | 4.9638 | 34 | 0.016463 | 0.07882 | 0.999915 | 34 | 7 | 4.9638 |
| TET3 | 10 | 343 | 0.38595 | 0.68561 | 0.946103 | 343 | 2 | 5.8364 | 17 | 0.0063722 | 0.034263 | 0.965406 | 17 | 7 | 5.8364 |
| PLOD3 | 10 | 344 | 0.38819 | 0.68789 | 0.946103 | 344 | 3 | 0.14688 | 302 | 0.37423 | 0.67204 | 0.999915 | 302 | 4 | 0.14688 |
| APLP1 | 10 | 345 | 0.3883 | 0.68799 | 0.946103 | 345 | 4 | -0.04059 | 306 | 0.38087 | 0.67865 | 0.999915 | 306 | 4 | -0.04059 |
| CYP2C8 | 10 | 346 | 0.39042 | 0.69003 | 0.946103 | 346 | 5 | -0.22722 | 71 | 0.041955 | 0.15974 | 0.999915 | 71 | 2 | -0.22722 |
| ALKBH3 | 10 | 347 | 0.39174 | 0.69119 | 0.946103 | 347 | 5 | 1.2978 | 219 | 0.21963 | 0.50088 | 0.999915 | 219 | 5 | 1.2978 |
| HGD | 10 | 348 | 0.39307 | 0.69251 | 0.946103 | 348 | 5 | -0.43844 | 371 | 0.57186 | 0.81395 | 0.999915 | 371 | 4 | -0.43844 |
| SCD | 10 | 349 | 0.3966 | 0.69609 | 0.946103 | 349 | 5 | -0.11782 | 344 | 0.48881 | 0.75885 | 0.999915 | 344 | 4 | -0.11782 |
| NOX5 | 10 | 350 | 0.39814 | 0.69733 | 0.946103 | 350 | 2 | 5.2971 | 14 | 0.0054472 | 0.029571 | 0.965406 | 14 | 7 | 5.2971 |
| LPO | 10 | 351 | 0.39882 | 0.69796 | 0.946103 | 351 | 5 | -0.31038 | 375 | 0.5876 | 0.82431 | 0.999915 | 375 | 3 | -0.31038 |
| PLOD1 | 10 | 352 | 0.40078 | 0.69989 | 0.946103 | 352 | 3 | 0.50429 | 315 | 0.40192 | 0.69976 | 0.999915 | 315 | 5 | 0.50429 |
| KAT2B | 10 | 353 | 0.40103 | 0.70012 | 0.946103 | 353 | 5 | -0.21981 | 356 | 0.54024 | 0.79295 | 0.999915 | 356 | 3 | -0.21981 |
| AGMO | 10 | 354 | 0.40578 | 0.70443 | 0.946103 | 354 | 3 | 3.36 | 36 | 0.018524 | 0.085501 | 0.999915 | 36 | 5 | 3.36 |
| ASPH | 10 | 355 | 0.40636 | 0.70494 | 0.946103 | 355 | 5 | 1.0207 | 298 | 0.36329 | 0.6609 | 0.999915 | 298 | 5 | 1.0207 |
| JAK2 | 10 | 356 | 0.40903 | 0.70734 | 0.946103 | 356 | 3 | 2.3515 | 172 | 0.15374 | 0.40192 | 0.999915 | 172 | 5 | 2.3515 |
| ADHFE1 | 10 | 357 | 0.41147 | 0.70965 | 0.946103 | 357 | 4 | 0.36192 | 11 | 0.0043266 | 0.024322 | 0.965406 | 11 | 4 | 0.36192 |
| NOX1 | 10 | 358 | 0.41762 | 0.71513 | 0.946103 | 358 | 2 | 2.0229 | 197 | 0.18427 | 0.45394 | 0.999915 | 197 | 5 | 2.0229 |
| MSMO1 | 10 | 359 | 0.41868 | 0.71618 | 0.946103 | 359 | 3 | -0.12189 | 364 | 0.55914 | 0.80534 | 0.999915 | 364 | 4 | -0.12189 |
| FRRS1L | 10 | 360 | 0.42151 | 0.7187 | 0.946103 | 360 | 5 | -0.38345 | 190 | 0.17907 | 0.44521 | 0.999915 | 190 | 4 | -0.38345 |
| CYP7A1 | 10 | 361 | 0.42285 | 0.71992 | 0.946103 | 361 | 5 | 0.24519 | 2 | 0.00086666 | 0.005811 | 0.854082 | 2 | 4 | 0.24519 |
| RORC | 10 | 362 | 0.4233 | 0.72034 | 0.946103 | 362 | 5 | -0.33859 | 297 | 0.36322 | 0.66081 | 0.999915 | 297 | 4 | -0.33859 |
| PAH | 10 | 363 | 0.42503 | 0.72192 | 0.946103 | 363 | 3 | 0.20621 | 266 | 0.31707 | 0.61275 | 0.999915 | 266 | 4 | 0.20621 |
| NUBP2 | 10 | 364 | 0.42508 | 0.72196 | 0.946103 | 364 | 5 | -0.26465 | 196 | 0.18362 | 0.45285 | 0.999915 | 196 | 3 | -0.26465 |
| SLC39A3 | 10 | 365 | 0.42553 | 0.72241 | 0.946103 | 365 | 5 | 0.063515 | 127 | 0.09633 | 0.29285 | 0.999915 | 127 | 4 | 0.063515 |
| SLC39A8 | 10 | 366 | 0.42609 | 0.72291 | 0.946103 | 366 | 2 | 0.51266 | 299 | 0.3639 | 0.66152 | 0.999915 | 299 | 4 | 0.51266 |
| DUOX1 | 10 | 367 | 0.43135 | 0.7279 | 0.950039 | 367 | 5 | -0.30208 | 312 | 0.39924 | 0.69709 | 0.999915 | 312 | 4 | -0.30208 |
| ACO1 | 10 | 368 | 0.43466 | 0.7309 | 0.951365 | 368 | 4 | -0.24823 | 363 | 0.55564 | 0.80311 | 0.999915 | 363 | 4 | -0.24823 |
| P4HA1 | 10 | 369 | 0.44474 | 0.74025 | 0.952326 | 369 | 3 | 0.009599 | 64 | 0.034984 | 0.13922 | 0.999915 | 64 | 4 | 0.009599 |
| HR | 10 | 370 | 0.44697 | 0.7422 | 0.952326 | 370 | 4 | 1.889 | 148 | 0.11878 | 0.33695 | 0.999915 | 148 | 5 | 1.889 |
| CYP20A1 | 10 | 371 | 0.44797 | 0.74318 | 0.952326 | 371 | 5 | 0.40268 | 254 | 0.28915 | 0.58124 | 0.999915 | 254 | 5 | 0.40268 |
| BCO2 | 10 | 372 | 0.44887 | 0.74394 | 0.952326 | 372 | 5 | -0.38193 | 99 | 0.071299 | 0.24057 | 0.999915 | 99 | 3 | -0.38193 |
| SDHAF1 | 10 | 373 | 0.45283 | 0.74675 | 0.952326 | 373 | 3 | 0.75663 | 314 | 0.40156 | 0.69946 | 0.999915 | 314 | 4 | 0.75663 |
| CYB5A | 10 | 374 | 0.45535 | 0.74842 | 0.952326 | 374 | 3 | 0.87976 | 86 | 0.053298 | 0.19339 | 0.999915 | 86 | 5 | 0.87976 |
| ISCA1 | 10 | 375 | 0.45854 | 0.75028 | 0.952326 | 375 | 4 | 2.2878 | 29 | 0.013659 | 0.067785 | 0.999915 | 29 | 6 | 2.2878 |
| CYP4F11 | 10 | 376 | 0.46171 | 0.75205 | 0.952326 | 376 | 4 | 0.098685 | 32 | 0.016351 | 0.078492 | 0.999915 | 32 | 4 | 0.098685 |
| BLVRB | 10 | 377 | 0.46805 | 0.75638 | 0.952326 | 377 | 2 | 5.1694 | 40 | 0.021446 | 0.095601 | 0.999915 | 40 | 7 | 5.1694 |
| PTGS2 | 10 | 378 | 0.46958 | 0.75735 | 0.952326 | 378 | 4 | -0.23288 | 182 | 0.16755 | 0.42581 | 0.999915 | 182 | 3 | -0.23288 |
| MIOX | 10 | 379 | 0.4785 | 0.76231 | 0.952326 | 379 | 2 | 2.1195 | 241 | 0.24776 | 0.53453 | 0.999915 | 241 | 5 | 2.1195 |
| PGRMC1 | 10 | 380 | 0.48043 | 0.76339 | 0.952326 | 380 | 3 | 0.13898 | 445 | 0.84831 | 0.94743 | 0.999915 | 445 | 3 | 0.13898 |
| NOS2 | 10 | 381 | 0.48478 | 0.76586 | 0.952326 | 381 | 4 | 2.5272 | 12 | 0.0045583 | 0.025534 | 0.965406 | 12 | 5 | 2.5272 |
| MINA | 10 | 382 | 0.48499 | 0.76598 | 0.952326 | 382 | 3 | -0.22055 | 244 | 0.25794 | 0.5468 | 0.999915 | 244 | 3 | -0.22055 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOXD1 | 10 | 383 | 0.48617 | 0.76674 | 0.952326 | 383 | 3 | 0.71373 | 343 | 0.48235 | 0.75445 | 0.999915 | 343 | 4 | 0.71373 |
| MOCS1 | 10 | 384 | 0.48807 | 0.76795 | 0.952326 | 384 | 2 | 4.8218 | 61 | 0.032691 | 0.13217 | 0.999915 | 61 | 6 | 4.8218 |
| HEPHL1 | 10 | 385 | 0.48881 | 0.76843 | 0.952326 | 385 | 4 | 4.3914 | 108 | 0.076771 | 0.25221 | 0.999915 | 108 | 6 | 4.3914 |
| CA9 | 10 | 386 | 0.48902 | 0.76857 | 0.952326 | 386 | 4 | 0.32924 | 125 | 0.095349 | 0.29085 | 0.999915 | 125 | 4 | 0.32924 |
| NDUFS2 | 10 | 387 | 0.49043 | 0.76942 | 0.952326 | 387 | 4 | -0.04296 | 389 | 0.61933 | 0.84447 | 0.999915 | 389 | 4 | -0.04296 |
| LYZ | 10 | 388 | 0.50015 | 0.77484 | 0.956366 | 388 | 3 | 2.0388 | 174 | 0.15677 | 0.4075 | 0.999915 | 174 | 5 | 2.0388 |
| CYP4A11 | 10 | 389 | 0.50311 | 0.77667 | 0.956366 | 389 | 4 | -0.21413 | 384 | 0.61208 | 0.84 | 0.999915 | 384 | 3 | -0.21413 |
| NOS3 | 10 | 390 | 0.51346 | 0.78337 | 0.960218 | 390 | 3 | 3.8214 | 96 | 0.065172 | 0.22706 | 0.999915 | 96 | 7 | 3.8214 |
| CYP2C9 | 10 | 391 | 0.51447 | 0.78381 | 0.960218 | 391 | 2 | 2.8352 | 53 | 0.027162 | 0.11406 | 0.999915 | 53 | 5 | 2.8352 |
| FLVCR2 | 10 | 392 | 0.52079 | 0.78752 | 0.9623 | 392 | 3 | 1.9635 | 265 | 0.31645 | 0.61203 | 0.999915 | 265 | 5 | 1.9635 |
| TBXAS1 | 10 | 393 | 0.53128 | 0.79384 | 0.964627 | 393 | 4 | 4.9555 | 67 | 0.038169 | 0.14859 | 0.999915 | 67 | 6 | 4.9555 |
| CYP26C1 | 10 | 394 | 0.53447 | 0.79595 | 0.964627 | 394 | 3 | 2.2464 | 107 | 0.076154 | 0.25096 | 0.999915 | 107 | 5 | 2.2464 |
| RAB6B | 10 | 395 | 0.53573 | 0.79678 | 0.964627 | 395 | 3 | 0.47989 | 390 | 0.62004 | 0.84501 | 0.999915 | 390 | 4 | 0.47989 |
| KLKB1 | 10 | 396 | 0.54171 | 0.80031 | 0.964627 | 396 | 4 | 2.2097 | 200 | 0.18778 | 0.45996 | 0.999915 | 200 | 6 | 2.2097 |
| ALOX15B | 10 | 397 | 0.5431 | 0.80122 | 0.964627 | 397 | 4 | 0.061498 | 326 | 0.43915 | 0.72592 | 0.999915 | 326 | 3 | 0.061498 |
| AMBP | 10 | 398 | 0.54368 | 0.80151 | 0.964627 | 398 | 2 | 0.37224 | 201 | 0.18892 | 0.4621 | 0.999915 | 201 | 4 | 0.37224 |
| CYP1A2 | 10 | 399 | 0.55243 | 0.80691 | 0.968702 | 399 | 4 | 2.1386 | 113 | 0.081877 | 0.26324 | 0.999915 | 113 | 5 | 2.1386 |
| CYP4V2 | 10 | 400 | 0.56792 | 0.81652 | 0.976138 | 400 | 3 | 2.3131 | 218 | 0.21783 | 0.49872 | 0.999915 | 218 | 5 | 2.3131 |
| FRAS1 | 10 | 401 | 0.57133 | 0.81871 | 0.976138 | 401 | 3 | 3.128 | 84 | 0.052767 | 0.19189 | 0.999915 | 84 | 6 | 3.128 |
| NDFIP1 | 10 | 402 | 0.57304 | 0.81965 | 0.976138 | 402 | 2 | 5.2604 | 41 | 0.021452 | 0.095611 | 0.999915 | 41 | 6 | 5.2604 |
| CH25H | 10 | 403 | 0.57619 | 0.82139 | 0.976138 | 403 | 3 | 2.9378 | 178 | 0.16241 | 0.41722 | 0.999915 | 178 | 6 | 2.9378 |
| STC2 | 10 | 404 | 0.58148 | 0.82455 | 0.976138 | 404 | 4 | 1.9044 | 152 | 0.12709 | 0.35345 | 0.999915 | 152 | 5 | 1.9044 |
| CYP17A1 | 10 | 405 | 0.5826 | 0.82534 | 0.976138 | 405 | 3 | 0.19049 | 234 | 0.23835 | 0.52298 | 0.999915 | 234 | 3 | 0.19049 |
| LCN2 | 10 | 406 | 0.58759 | 0.82851 | 0.977475 | 406 | 4 | 0.60698 | 109 | 0.077768 | 0.25451 | 0.999915 | 109 | 4 | 0.60698 |
| CLSTN1 | 10 | 407 | 0.60131 | 0.83666 | 0.982392 | 407 | 4 | -0.14859 | 419 | 0.73691 | 0.89899 | 0.999915 | 419 | 3 | -0.14859 |
| HEPH | 10 | 408 | 0.61017 | 0.84187 | 0.982392 | 408 | 4 | 0.001946 | 386 | 0.61369 | 0.84082 | 0.999915 | 386 | 3 | 0.001946 |
| HPX | 10 | 409 | 0.61043 | 0.84201 | 0.982392 | 409 | 4 | 2.2515 | 189 | 0.17736 | 0.44225 | 0.999915 | 189 | 5 | 2.2515 |
| CYB5D1 | 10 | 410 | 0.62214 | 0.84872 | 0.982392 | 410 | 3 | 2.7589 | 30 | 0.01439 | 0.070569 | 0.999915 | 30 | 5 | 2.7589 |
| DPYD | 10 | 411 | 0.62496 | 0.85049 | 0.982392 | 411 | 4 | 5.9459 | 26 | 0.01111 | 0.056919 | 0.999915 | 26 | 6 | 5.9459 |
| ALKBH8 | 10 | 412 | 0.62568 | 0.85093 | 0.982392 | 412 | 3 | 0.019026 | 310 | 0.39704 | 0.69505 | 0.999915 | 310 | 4 | 0.019026 |
| RORB | 10 | 413 | 0.63343 | 0.85565 | 0.982392 | 413 | 4 | -0.24659 | 146 | 0.11786 | 0.33513 | 0.999915 | 146 | 3 | -0.24659 |
| GLRX2 | 10 | 414 | 0.64503 | 0.86225 | 0.982392 | 414 | 4 | 0.33157 | 434 | 0.81912 | 0.93415 | 0.999915 | 434 | 3 | 0.33157 |
| FADS3 | 10 | 415 | 0.64778 | 0.86381 | 0.982392 | 415 | 3 | 3.1458 | 118 | 0.089828 | 0.27943 | 0.999915 | 118 | 6 | 3.1458 |
| FTHL17 | 10 | 416 | 0.65008 | 0.86506 | 0.982392 | 416 | 4 | 0.020347 | 153 | 0.12804 | 0.35537 | 0.999915 | 153 | 4 | 0.020347 |
| BACH1 | 10 | 417 | 0.66463 | 0.87375 | 0.982392 | 417 | 4 | 3.1512 | 166 | 0.14471 | 0.38549 | 0.999915 | 166 | 6 | 3.1512 |
| HERC2 | 10 | 418 | 0.6671 | 0.87533 | 0.982392 | 418 | 4 | 0.48402 | 62 | 0.033303 | 0.13394 | 0.999915 | 62 | 5 | 0.48402 |
| CYBB | 10 | 419 | 0.66955 | 0.87668 | 0.982392 | 419 | 2 | 3.9322 | 128 | 0.0968 | 0.29371 | 0.999915 | 128 | 6 | 3.9322 |
| TSHZ3 | 10 | 420 | 0.67003 | 0.87694 | 0.982392 | 420 | 3 | 2.3524 | 47 | 0.023919 | 0.10349 | 0.999915 | 47 | 5 | 2.3524 |
| PARN | 10 | 421 | 0.67191 | 0.87805 | 0.982392 | 421 | 3 | 1.6916 | 258 | 0.29707 | 0.59006 | 0.999915 | 258 | 5 | 1.6916 |
| CTRL | 1004 | 422 | 0.67769 | 0.88146 | 0.982392 | 422 | 281 | 2.7713 | 1 | 3.32E-13 | 4.97E-06 | 0.002381 | 1 | 530 | 2.7713 |
| KDM5A | 10 | 423 | 0.68521 | 0.88591 | 0.982392 | 423 | 1 | 4.5539 | 88 | 0.054947 | 0.19871 | 0.999915 | 88 | 6 | 4.5539 |
| TPH1 | 10 | 424 | 0.68902 | 0.88806 | 0.982392 | 424 | 3 | 1.61 | 285 | 0.35249 | 0.6502 | 0.999915 | 285 | 5 | 1.61 |
| CYP2R1 | 10 | 425 | 0.69008 | 0.8886 | 0.982392 | 425 | 2 | 0.45969 | 253 | 0.28869 | 0.58061 | 0.999915 | 253 | 3 | 0.45969 |
| ABCE1 | 10 | 426 | 0.69027 | 0.88866 | 0.982392 | 426 | 3 | 3.6156 | 81 | 0.049389 | 0.18219 | 0.999915 | 81 | 7 | 3.6156 |
| NARF | 10 | 427 | 0.69068 | 0.8888 | 0.982392 | 427 | 2 | 4.4971 | 85 | 0.052974 | 0.19255 | 0.999915 | 85 | 6 | 4.4971 |
| TYW1 | 10 | 428 | 0.69192 | 0.88948 | 0.982392 | 428 | 3 | 0.48768 | 334 | 0.45917 | 0.7393 | 0.999915 | 334 | 4 | 0.48768 |
| GUCY1A2 | 10 | 429 | 0.69532 | 0.89135 | 0.982392 | 429 | 3 | -0.06533 | 100 | 0.071624 | 0.24129 | 0.999915 | 100 | 4 | -0.06533 |
| CYP2A7 | 10 | 430 | 0.7002 | 0.89304 | 0.982392 | 430 | 2 | 0.3213 | 10 | 0.0034217 | 0.020345 | 0.965406 | 10 | 4 | 0.3213 |
| CYP2W1 | 10 | 431 | 0.70214 | 0.89362 | 0.982392 | 431 | 3 | 0.98044 | 106 | 0.076073 | 0.25079 | 0.999915 | 106 | 5 | 0.98044 |
| ABCB6 | 10 | 432 | 0.70615 | 0.89492 | 0.982392 | 432 | 3 | 1.5387 | 56 | 0.0298 | 0.12256 | 0.999915 | 56 | 5 | 1.5387 |
| SLC39A4 | 10 | 433 | 0.71097 | 0.89653 | 0.982392 | 433 | 3 | 4.3211 | 57 | 0.030459 | 0.12488 | 0.999915 | 57 | 6 | 4.3211 |
| GUCY1B3 | 10 | 434 | 0.7119 | 0.89687 | 0.982392 | 434 | 3 | 3.5398 | 89 | 0.057611 | 0.20625 | 0.999915 | 89 | 7 | 3.5398 |
| AFM | 10 | 435 | 0.71848 | 0.89915 | 0.982392 | 435 | 3 | 2.2539 | 19 | 0.0077757 | 0.041003 | 0.999915 | 19 | 5 | 2.2539 |
| CD163 | 10 | 436 | 0.74326 | 0.90814 | 0.982392 | 436 | 3 | 2.4495 | 147 | 0.11805 | 0.3354 | 0.999915 | 147 | 5 | 2.4495 |
| EPX | 10 | 437 | 0.74395 | 0.90836 | 0.982392 | 437 | 2 | 6.6031 | 3 | 0.0013528 | 0.008724 | 0.854082 | 3 | 6 | 6.6031 |
| CYP2C19 | 10 | 438 | 0.74496 | 0.90879 | 0.982392 | 438 | 3 | 3.0298 | 115 | 0.08451 | 0.26881 | 0.999915 | 115 | 5 | 3.0298 |
| HMOX1 | 10 | 439 | 0.74877 | 0.91019 | 0.982392 | 439 | 2 | 4.9011 | 25 | 0.010667 | 0.054891 | 0.999915 | 25 | 6 | 4.9011 |
| RFESD | 10 | 440 | 0.75147 | 0.91133 | 0.982392 | 440 | 1 | 4.5543 | 35 | 0.018059 | 0.08393 | 0.999915 | 35 | 7 | 4.5543 |
| HDAC2 | 10 | 441 | 0.75313 | 0.91196 | 0.982392 | 441 | 3 | 4.4851 | 103 | 0.072752 | 0.24406 | 0.999915 | 103 | 6 | 4.4851 |
| HBD | 10 | 442 | 0.76072 | 0.91457 | 0.982392 | 442 | 1 | 3.434 | 145 | 0.11665 | 0.33279 | 0.999915 | 145 | 6 | 3.434 |
| TSHZ1 | 10 | 443 | 0.76405 | 0.91573 | 0.982392 | 443 | 2 | 5.1809 | 18 | 0.0074536 | 0.039512 | 0.999915 | 18 | 8 | 5.1809 |
| DNAJC24 | 10 | 444 | 0.77458 | 0.91975 | 0.982392 | 444 | 3 | 1.2461 | 305 | 0.38031 | 0.67815 | 0.999915 | 305 | 5 | 1.2461 |
| ALOX12B | 10 | 445 | 0.78928 | 0.9252 | 0.982392 | 445 | 3 | 2.0326 | 101 | 0.071654 | 0.24138 | 0.999915 | 101 | 5 | 2.0326 |
| CYP3A4 | 10 | 446 | 0.79341 | 0.92658 | 0.982392 | 446 | 3 | 2.6784 | 132 | 0.10743 | 0.31514 | 0.999915 | 132 | 5 | 2.6784 |
| SLC48A1 | 10 | 447 | 0.79844 | 0.92845 | 0.982392 | 447 | 3 | 0.1301 | 366 | 0.56302 | 0.80801 | 0.999915 | 366 | 4 | 0.1301 |
| SLC25A37 | 10 | 448 | 0.79855 | 0.9285 | 0.982392 | 448 | 2 | 2.0389 | 121 | 0.092175 | 0.28408 | 0.999915 | 121 | 5 | 2.0389 |
| HFE | 10 | 449 | 0.8061 | 0.93147 | 0.982392 | 449 | 2 | 4.3926 | 69 | 0.04005 | 0.15416 | 0.999915 | 69 | 6 | 4.3926 |
| CYP19A1 | 10 | 450 | 0.8121 | 0.93397 | 0.982392 | 450 | 2 | -0.01562 | 177 | 0.16122 | 0.41525 | 0.999915 | 177 | 4 | -0.01562 |
| SC5D | 10 | 451 | 0.81349 | 0.93458 | 0.982392 | 451 | 3 | 0.59712 | 317 | 0.41131 | 0.70682 | 0.999915 | 317 | 4 | 0.59712 |
| STEAP1B | 10 | 452 | 0.81625 | 0.93555 | 0.982392 | 452 | 3 | -0.31641 | 169 | 0.14553 | 0.38691 | 0.999915 | 169 | 4 | -0.31641 |
| NIPA1 | 10 | 453 | 0.82235 | 0.93789 | 0.982392 | 453 | 3 | 1.5126 | 233 | 0.23811 | 0.52273 | 0.999915 | 233 | 5 | 1.5126 |
| CDK5RAP | 10 | 454 | 0.82264 | 0.93792 | 0.982392 | 454 | 3 | 2.7846 | 164 | 0.14421 | 0.38474 | 0.999915 | 164 | 5 | 2.7846 |
| BBOX1 | 10 | 455 | 0.82466 | 0.93869 | 0.982392 | 455 | 2 | 4.5001 | 75 | 0.043994 | 0.16614 | 0.999915 | 75 | 7 | 4.5001 |
| ATOX1 | 10 | 456 | 0.82467 | 0.93869 | 0.982392 | 456 | 3 | 2.6384 | 165 | 0.1445 | 0.38512 | 0.999915 | 165 | 5 | 2.6384 |
| CYP51A1 | 10 | 457 | 0.82639 | 0.93932 | 0.982392 | 457 | 3 | 0.25607 | 274 | 0.33125 | 0.62798 | 0.999915 | 274 | 4 | 0.25607 |
| CDKAL1 | 10 | 458 | 0.84195 | 0.94595 | 0.987172 | 458 | 3 | 4.7441 | 37 | 0.018601 | 0.085769 | 0.999915 | 37 | 6 | 4.7441 |
| CYP4F3 | 10 | 459 | 0.84998 | 0.94921 | 0.988421 | 459 | 1 | 4.4043 | 4 | 0.0014137 | 0.009072 | 0.854082 | 4 | 9 | 4.4043 |
| AOX1 | 10 | 460 | 0.86438 | 0.95534 | 0.99264 | 460 | 3 | 3.6987 | 144 | 0.11387 | 0.32755 | 0.999915 | 144 | 6 | 3.6987 |
| HBG1 | 3 | 461 | 0.86567 | 0.86538 | 0.982392 | 461 | 0 | 4.3306 | 231 | 0.23671 | 0.36463 | 0.999915 | 231 | 2 | 4.3306 |
| RORA | 10 | 462 | 0.87808 | 0.96113 | 0.995946 | 462 | 3 | 0.43671 | 346 | 0.49655 | 0.76367 | 0.999915 | 346 | 4 | 0.43671 |
| CYP2F1 | 10 | 463 | 0.89987 | 0.96614 | 0.995946 | 463 | 2 | 4.8514 | 55 | 0.029639 | 0.1221 | 0.999915 | 55 | 7 | 4.8514 |
| SLC39A10 | 10 | 464 | 0.91731 | 0.97051 | 0.995946 | 464 | 2 | 5.6173 | 39 | 0.020742 | 0.093235 | 0.999915 | 39 | 6 | 5.6173 |
| RRM2B | 10 | 465 | 0.91981 | 0.97107 | 0.995946 | 465 | 2 | 3.1981 | 9 | 0.0028523 | 0.017392 | 0.925661 | 9 | 5 | 3.1981 |
| XDH | 10 | 466 | 0.92094 | 0.97149 | 0.995946 | 466 | 2 | 1.5281 | 151 | 0.12673 | 0.35272 | 0.999915 | 151 | 5 | 1.5281 |
| CYP2A6 | 10 | 467 | 0.92648 | 0.97295 | 0.995946 | 467 | 2 | 3.7777 | 137 | 0.11135 | 0.32279 | 0.999915 | 137 | 6 | 3.7777 |
| CYP21A2 | 10 | 468 | 0.93522 | 0.97523 | 0.995946 | 468 | 2 | 5.2361 | 24 | 0.010328 | 0.053291 | 0.999915 | 24 | 8 | 5.2361 |
| CYP2U1 | 10 | 469 | 0.93893 | 0.97647 | 0.995946 | 469 | 2 | 0.15435 | 217 | 0.21436 | 0.49447 | 0.999915 | 217 | 3 | 0.15435 |
| PTGIS | 10 | 470 | 0.94346 | 0.9779 | 0.995946 | 470 | 2 | 4.4671 | 98 | 0.068547 | 0.23456 | 0.999915 | 98 | 6 | 4.4671 |
| CYP3A5 | 10 | 471 | 0.9553 | 0.98204 | 0.995946 | 471 | 2 | -0.28536 | 224 | 0.22687 | 0.50954 | 0.999915 | 224 | 3 | -0.28536 |
| ABAT | 10 | 472 | 0.9604 | 0.98401 | 0.995946 | 472 | 2 | 3.365 | 140 | 0.11204 | 0.32421 | 0.999915 | 140 | 6 | 3.365 |
| CDO1 | 10 | 473 | 0.96238 | 0.98488 | 0.995946 | 473 | 2 | 1.8561 | 257 | 0.29462 | 0.58754 | 0.999915 | 257 | 5 | 1.8561 |
| PTGS1 | 10 | 474 | 0.96385 | 0.98555 | 0.995946 | 474 | 2 | 3.3521 | 33 | 0.016384 | 0.078591 | 0.999915 | 33 | 5 | 3.3521 |
| AFP | 10 | 475 | 0.98754 | 0.99205 | 0.996498 | 475 | 1 | 6.449 | 6 | 0.001935 | 0.012273 | 0.854082 | 6 | 8 | 6.449 |
| HIF1A | 10 | 476 | 0.99204 | 0.9939 | 0.996498 | 476 | 1 | 3.9057 | 83 | 0.052736 | 0.1918 | 0.999915 | 83 | 6 | 3.9057 |
| LEPREL1 | 10 | 477 | 0.99263 | 0.99415 | 0.996498 | 477 | 1 | 4.1223 | 54 | 0.029422 | 0.12131 | 0.999915 | 54 | 7 | 4.1223 |
| DLG3 | 10 | 478 | 0.99315 | 0.99442 | 0.996498 | 478 | 1 | 6.2827 | 5 | 0.0016201 | 0.010384 | 0.854082 | 5 | 8 | 6.2827 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPP3CC | 10 | 479 | 0.99762 | 0.99766 | 0.997659 | 479 | 0 | 4.0378 | 135 | 0.10932 | 0.31889 | 0.999915 | 135 | 6 | 4.0378 |

| Total dropped-out sgRNAs |
|---|
| 2494 |

**Supplemental Table S4. Result of MAGeCK test of Mouse #3**

| id | num | Rank | neg\|score | neg\|p-valu | neg\|fdr | neg\|rank | neg\|goodsgrna | neg\|lfc | Rank2 | pos\|score | pos\|p-valu | pos\|fdr | pos\|rank | pos\|goods | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRC1 | 10 | 1 | 2.35E-05 | 0.000194 | 0.072222 | 1 | 10 | -2.7355 | 479 | 0.99998 | 0.99999 | 0.999985 | 479 | 0 | -2.7355 |
| ATP6V1A | 10 | 2 | 4.11E-05 | 0.000313 | 0.072222 | 2 | 9 | -2.8259 | 415 | 0.74948 | 0.92046 | 0.999716 | 415 | 1 | -2.8259 |
| UQCRC1 | 10 | 3 | 5.66E-05 | 0.000452 | 0.072222 | 3 | 9 | -2.8626 | 477 | 0.99692 | 0.99723 | 0.999716 | 477 | 1 | -2.8626 |
| CYB5B | 10 | 4 | 0.00024353 | 0.001914 | 0.192857 | 4 | 6 | -1.4105 | 368 | 0.55218 | 0.81864 | 0.999716 | 368 | 3 | -1.4105 |
| OGFOD1 | 10 | 5 | 0.00025918 | 0.002033 | 0.192857 | 5 | 7 | -2.1233 | 162 | 0.12303 | 0.36102 | 0.999716 | 162 | 3 | -2.1233 |
| CYP27B1 | 10 | 6 | 0.00032044 | 0.00249 | 0.192857 | 6 | 8 | -2.898 | 463 | 0.96113 | 0.98567 | 0.999716 | 463 | 2 | -2.898 |
| GLRX5 | 10 | 7 | 0.0003802 | 0.002818 | 0.192857 | 7 | 8 | -2.861 | 448 | 0.88804 | 0.96596 | 0.999716 | 448 | 2 | -2.861 |
| HSCB | 10 | 8 | 0.00043715 | 0.003236 | 0.19375 | 8 | 8 | -2.754 | 383 | 0.60571 | 0.8474 | 0.999716 | 383 | 2 | -2.754 |
| POLE | 10 | 9 | 0.00050237 | 0.003693 | 0.196561 | 9 | 7 | -2.3245 | 466 | 0.96874 | 0.98823 | 0.999716 | 466 | 2 | -2.3245 |
| CIAO1 | 10 | 10 | 0.00073063 | 0.005403 | 0.237446 | 10 | 8 | -2.8841 | 438 | 0.8416 | 0.9494 | 0.999716 | 438 | 1 | -2.8841 |
| ATP6V0D1 | 10 | 11 | 0.00074309 | 0.005453 | 0.237446 | 11 | 9 | -2.8029 | 413 | 0.74698 | 0.91931 | 0.999716 | 413 | 1 | -2.8029 |
| UTY | 10 | 12 | 0.00086666 | 0.006367 | 0.246577 | 12 | 5 | 0.19442 | 314 | 0.39484 | 0.6997 | 0.999716 | 314 | 5 | 0.19442 |
| UQCRFS1 | 10 | 13 | 0.0010594 | 0.0077 | 0.246577 | 13 | 8 | -2.9614 | 265 | 0.27499 | 0.58812 | 0.999716 | 265 | 2 | -2.9614 |
| UQCRC2 | 10 | 14 | 0.0010684 | 0.007779 | 0.246577 | 14 | 8 | -2.815 | 467 | 0.96979 | 0.98853 | 0.999716 | 467 | 2 | -2.815 |
| POLA1 | 10 | 15 | 0.0011257 | 0.008067 | 0.246577 | 15 | 9 | -2.868 | 446 | 0.87679 | 0.96167 | 0.999716 | 446 | 1 | -2.868 |
| ALOX5 | 10 | 16 | 0.0011458 | 0.008236 | 0.246577 | 16 | 6 | -1.3861 | 233 | 0.21064 | 0.49939 | 0.999716 | 233 | 3 | -1.3861 |
| EXO5 | 10 | 17 | 0.0013358 | 0.009161 | 0.247487 | 17 | 8 | -2.9245 | 308 | 0.38707 | 0.69247 | 0.999716 | 308 | 2 | -2.9245 |
| P4HTM | 10 | 18 | 0.0013616 | 0.0093 | 0.247487 | 18 | 9 | -2.3795 | 474 | 0.99231 | 0.99523 | 0.999716 | 474 | 1 | -2.3795 |
| KAT5 | 10 | 19 | 0.0017501 | 0.011607 | 0.269742 | 19 | 8 | -2.7255 | 462 | 0.95862 | 0.98496 | 0.999716 | 462 | 2 | -2.7255 |
| ATP6AP1 | 10 | 20 | 0.0017682 | 0.011716 | 0.269742 | 20 | 8 | -2.7653 | 102 | 0.068049 | 0.23687 | 0.999716 | 102 | 2 | -2.7653 |
| FDXR | 10 | 21 | 0.0018731 | 0.012322 | 0.269742 | 21 | 9 | -2.763 | 455 | 0.92147 | 0.97599 | 0.999716 | 455 | 1 | -2.763 |
| CCDC115 | 10 | 22 | 0.0019794 | 0.012939 | 0.269742 | 22 | 9 | -2.5005 | 475 | 0.99275 | 0.99537 | 0.999716 | 475 | 1 | -2.5005 |
| DOHH | 10 | 23 | 0.002018 | 0.013287 | 0.269742 | 23 | 6 | -1.8875 | 388 | 0.63398 | 0.86188 | 0.999716 | 388 | 4 | -1.8875 |
| ERCC2 | 10 | 24 | 0.0020496 | 0.013515 | 0.269742 | 24 | 8 | -2.966 | 468 | 0.97136 | 0.98916 | 0.999716 | 468 | 2 | -2.966 |
| DPH1 | 10 | 25 | 0.0023154 | 0.015245 | 0.28196 | 25 | 8 | -2.7467 | 472 | 0.98731 | 0.99374 | 0.999716 | 472 | 1 | -2.7467 |
| COQ6 | 10 | 26 | 0.0023295 | 0.015305 | 0.28196 | 26 | 9 | -2.7643 | 473 | 0.99025 | 0.99453 | 0.999716 | 473 | 1 | -2.7643 |
| CYP2E1 | 10 | 27 | 0.0026967 | 0.017333 | 0.307496 | 27 | 7 | -2.8947 | 458 | 0.9283 | 0.97727 | 0.999716 | 458 | 2 | -2.8947 |
| DGCR8 | 10 | 28 | 0.003336 | 0.020892 | 0.357398 | 28 | 5 | -0.75885 | 353 | 0.48718 | 0.77693 | 0.999716 | 353 | 5 | -0.75885 |
| SET | 10 | 29 | 0.0035776 | 0.022214 | 0.366103 | 29 | 7 | -2.7986 | 13 | 0.0035525 | 0.021826 | 0.752211 | 13 | 3 | -2.7986 |
| PPAT | 10 | 30 | 0.0041181 | 0.024998 | 0.366103 | 30 | 9 | -2.5605 | 385 | 0.60796 | 0.84851 | 0.999716 | 385 | 1 | -2.5605 |
| JHDM1D | 10 | 31 | 0.0043266 | 0.025872 | 0.366103 | 31 | 6 | -2.1304 | 362 | 0.52261 | 0.80275 | 0.999716 | 362 | 3 | -2.1304 |
| THAP4 | 10 | 32 | 0.0043728 | 0.02622 | 0.366103 | 32 | 7 | -2.7113 | 404 | 0.71566 | 0.90373 | 0.999716 | 404 | 2 | -2.7113 |
| OSGEP | 10 | 33 | 0.0043908 | 0.02632 | 0.366103 | 33 | 8 | -2.6992 | 478 | 0.99757 | 0.99763 | 0.999716 | 478 | 1 | -2.6992 |
| SOD2 | 10 | 34 | 0.0044426 | 0.026558 | 0.366103 | 34 | 5 | 0.65849 | 217 | 0.18901 | 0.4677 | 0.999716 | 217 | 5 | 0.65849 |
| CYP46A1 | 10 | 35 | 0.0046104 | 0.027423 | 0.366103 | 35 | 5 | -0.15814 | 181 | 0.14525 | 0.39829 | 0.999716 | 181 | 5 | -0.15814 |
| NDOR1 | 10 | 36 | 0.0047379 | 0.028278 | 0.366103 | 36 | 8 | -2.5817 | 465 | 0.96721 | 0.98774 | 0.999716 | 465 | 2 | -2.5817 |
| CYP2S1 | 10 | 37 | 0.0048345 | 0.028666 | 0.366103 | 37 | 6 | -1.8165 | 329 | 0.4304 | 0.73004 | 0.999716 | 329 | 4 | -1.8165 |
| TMEM199 | 10 | 38 | 0.0049076 | 0.029044 | 0.366103 | 38 | 8 | -2.5274 | 417 | 0.76284 | 0.92433 | 0.999716 | 417 | 2 | -2.5274 |
| NDUFS1 | 10 | 39 | 0.0054287 | 0.031658 | 0.388828 | 39 | 8 | -2.6448 | 454 | 0.91318 | 0.97449 | 0.999716 | 454 | 2 | -2.6448 |
| SLC39A12 | 10 | 40 | 0.005755 | 0.033448 | 0.400536 | 40 | 8 | -2.5763 | 339 | 0.45688 | 0.75252 | 0.999716 | 339 | 1 | -2.5763 |
| NIF3L1 | 10 | 41 | 0.0059589 | 0.034661 | 0.403293 | 41 | 7 | -1.927 | 423 | 0.77997 | 0.9297 | 0.999716 | 423 | 2 | -1.927 |
| TET2 | 10 | 42 | 0.0062002 | 0.036082 | 0.403293 | 42 | 6 | -2.7418 | 196 | 0.15972 | 0.42227 | 0.999716 | 196 | 4 | -2.7418 |
| COX5A | 10 | 43 | 0.0063512 | 0.036947 | 0.403293 | 43 | 8 | -2.5342 | 425 | 0.78053 | 0.92987 | 0.999716 | 425 | 2 | -2.5342 |
| SLC39A13 | 10 | 44 | 0.0067121 | 0.038905 | 0.403293 | 44 | 5 | -0.38158 | 202 | 0.16582 | 0.4319 | 0.999716 | 202 | 5 | -0.38158 |
| SLC39A7 | 10 | 45 | 0.006718 | 0.038935 | 0.403293 | 45 | 9 | -2.4358 | 286 | 0.31671 | 0.62904 | 0.999716 | 286 | 1 | -2.4358 |
| SDHC | 10 | 46 | 0.0068 | 0.039412 | 0.403293 | 46 | 9 | -2.8442 | 452 | 0.90848 | 0.97342 | 0.999716 | 452 | 1 | -2.8442 |
| NDUFV1 | 10 | 47 | 0.0068305 | 0.039572 | 0.403293 | 47 | 7 | -2.7657 | 391 | 0.63873 | 0.86418 | 0.999716 | 391 | 3 | -2.7657 |
| RSBN1L | 10 | 48 | 0.0071724 | 0.041301 | 0.412153 | 48 | 7 | -2.3884 | 428 | 0.81285 | 0.93971 | 0.999716 | 428 | 3 | -2.3884 |
| TSHZ3 | 10 | 49 | 0.0077757 | 0.044453 | 0.434548 | 49 | 6 | -1.01 | 225 | 0.20317 | 0.48922 | 0.999716 | 225 | 4 | -1.01 |
| KDM4B | 10 | 50 | 0.0086821 | 0.049523 | 0.474429 | 50 | 6 | -2.2443 | 10 | 0.002598 | 0.016458 | 0.752211 | 10 | 4 | -2.2443 |
| TPH1 | 10 | 51 | 0.0092271 | 0.052177 | 0.490056 | 51 | 9 | -1.9731 | 461 | 0.951 | 0.98265 | 0.999716 | 461 | 1 | -1.9731 |
| PTGES2 | 10 | 52 | 0.0095255 | 0.053837 | 0.495925 | 52 | 8 | -2.2885 | 430 | 0.8225 | 0.94278 | 0.999716 | 430 | 2 | -2.2885 |
| CYC1 | 10 | 53 | 0.01026 | 0.057595 | 0.52053 | 53 | 7 | -1.6019 | 376 | 0.58594 | 0.83664 | 0.999716 | 376 | 3 | -1.6019 |
| ALKBH1 | 10 | 54 | 0.010586 | 0.059057 | 0.523854 | 54 | 8 | -2.3054 | 63 | 0.03162 | 0.13661 | 0.999716 | 63 | 1 | -2.3054 |
| ALKBH5 | 10 | 55 | 0.011214 | 0.061641 | 0.53684 | 55 | 7 | -2.4552 | 371 | 0.57384 | 0.8303 | 0.999716 | 371 | 3 | -2.4552 |
| SDHD | 10 | 56 | 0.011839 | 0.064256 | 0.549617 | 56 | 7 | -2.3604 | 426 | 0.79093 | 0.93267 | 0.999716 | 426 | 3 | -2.3604 |
| RTEL1 | 10 | 57 | 0.012438 | 0.066672 | 0.560276 | 57 | 7 | -2.7349 | 437 | 0.84112 | 0.94929 | 0.999716 | 437 | 2 | -2.7349 |
| IBA57 | 10 | 58 | 0.01317 | 0.069565 | 0.574507 | 58 | 7 | -2.4977 | 424 | 0.78009 | 0.92976 | 0.999716 | 424 | 2 | -2.4977 |
| KDM6B | 10 | 59 | 0.014642 | 0.07534 | 0.61123 | 59 | 3 | 1.9607 | 147 | 0.10368 | 0.3234 | 0.999716 | 147 | 7 | 1.9607 |
| MB | 10 | 60 | 0.014915 | 0.076563 | 0.61123 | 60 | 4 | 1.6042 | 254 | 0.25146 | 0.55696 | 0.999716 | 254 | 6 | 1.6042 |
| PPP1CA | 10 | 61 | 0.01586 | 0.080083 | 0.619931 | 61 | 7 | -2.1398 | 378 | 0.59347 | 0.84096 | 0.999716 | 378 | 3 | -2.1398 |
| ISCU | 10 | 62 | 0.015895 | 0.080242 | 0.619931 | 62 | 6 | -2.7345 | 272 | 0.28499 | 0.59784 | 0.999716 | 272 | 4 | -2.7345 |
| SLC11A2 | 10 | 63 | 0.017108 | 0.084725 | 0.64418 | 63 | 8 | -2.508 | 249 | 0.23917 | 0.54003 | 0.999716 | 249 | 1 | -2.508 |
| SCD | 10 | 64 | 0.018059 | 0.088085 | 0.655007 | 64 | 6 | -2.1926 | 414 | 0.74749 | 0.91959 | 0.999716 | 414 | 4 | -2.1926 |
| CYP26B1 | 10 | 65 | 0.018408 | 0.089407 | 0.655007 | 65 | 7 | -1.9467 | 394 | 0.66179 | 0.87597 | 0.999716 | 394 | 3 | -1.9467 |
| FADS2 | 10 | 66 | 0.018891 | 0.091356 | 0.655007 | 66 | 8 | -2.4973 | 457 | 0.92407 | 0.97643 | 0.999716 | 457 | 2 | -2.4973 |
| MPO | 10 | 67 | 0.019111 | 0.092141 | 0.655007 | 67 | 6 | -2.7112 | 155 | 0.11729 | 0.35046 | 0.999716 | 155 | 3 | -2.7112 |
| TH | 10 | 68 | 0.01926 | 0.092986 | 0.655007 | 68 | 6 | -1.6541 | 47 | 0.019646 | 0.092281 | 0.940476 | 47 | 3 | -1.6541 |
| STEAP1 | 10 | 69 | 0.020485 | 0.09744 | 0.664688 | 69 | 8 | -2.5185 | 471 | 0.97836 | 0.99209 | 0.999716 | 471 | 2 | -2.5185 |
| GUCY1A3 | 10 | 70 | 0.020716 | 0.098385 | 0.664688 | 70 | 4 | 2.5392 | 141 | 0.099031 | 0.31273 | 0.999716 | 141 | 6 | 2.5392 |
| GRXCR1 | 10 | 71 | 0.020742 | 0.098524 | 0.664688 | 71 | 6 | -2.6247 | 422 | 0.77964 | 0.92955 | 0.999716 | 422 | 3 | -2.6247 |
| SLC39A3 | 10 | 72 | 0.021312 | 0.1006 | 0.669279 | 72 | 6 | -1.1209 | 291 | 0.3254 | 0.63771 | 0.999716 | 291 | 4 | -1.1209 |
| SP1 | 10 | 73 | 0.023993 | 0.11044 | 0.691825 | 73 | 6 | -2.3645 | 443 | 0.85825 | 0.95504 | 0.999716 | 443 | 3 | -2.3645 |
| CYP2J2 | 10 | 74 | 0.02408 | 0.11076 | 0.691825 | 74 | 6 | -2.4953 | 400 | 0.69369 | 0.89246 | 0.999716 | 400 | 4 | -2.4953 |
| FDX1L | 10 | 75 | 0.024583 | 0.11266 | 0.691825 | 75 | 7 | -2.3543 | 460 | 0.94209 | 0.98032 | 0.999716 | 460 | 2 | -2.3543 |
| ABCB7 | 10 | 76 | 0.024593 | 0.11269 | 0.691825 | 76 | 6 | -2.3096 | 49 | 0.021612 | 0.10013 | 0.966714 | 49 | 3 | -2.3096 |
| KDM4C | 10 | 77 | 0.02486 | 0.1136 | 0.691825 | 77 | 3 | 2.4055 | 75 | 0.040797 | 0.1626 | 0.999716 | 75 | 6 | 2.4055 |
| LRP2 | 10 | 78 | 0.026992 | 0.1213 | 0.691825 | 78 | 7 | -1.8192 | 144 | 0.10009 | 0.31529 | 0.999716 | 144 | 2 | -1.8192 |
| CLSTN3 | 10 | 79 | 0.027149 | 0.12196 | 0.691825 | 79 | 7 | -2.4022 | 396 | 0.67143 | 0.88118 | 0.999716 | 396 | 3 | -2.4022 |
| SETD7 | 10 | 80 | 0.027216 | 0.12221 | 0.691825 | 80 | 6 | -1.8937 | 149 | 0.10848 | 0.33422 | 0.999716 | 149 | 4 | -1.8937 |
| KIAA1456 | 10 | 81 | 0.027324 | 0.12255 | 0.691825 | 81 | 5 | 0.66686 | 319 | 0.4108 | 0.71343 | 0.999716 | 319 | 5 | 0.66686 |
| TBXAS1 | 10 | 82 | 0.027487 | 0.12317 | 0.691825 | 82 | 8 | -2.4979 | 449 | 0.89541 | 0.96852 | 0.999716 | 449 | 2 | -2.4979 |
| FDX1 | 10 | 83 | 0.027704 | 0.12399 | 0.691825 | 83 | 7 | -2.577 | 429 | 0.81562 | 0.94058 | 0.999716 | 429 | 2 | -2.577 |
| FTH1 | 10 | 84 | 0.02813 | 0.12548 | 0.691825 | 84 | 8 | -2.4321 | 433 | 0.83038 | 0.94552 | 0.999716 | 433 | 2 | -2.4321 |
| METAP2 | 10 | 85 | 0.028386 | 0.12643 | 0.691825 | 85 | 7 | -2.2461 | 296 | 0.34328 | 0.65383 | 0.999716 | 296 | 3 | -2.2461 |
| HEBP2 | 10 | 86 | 0.028842 | 0.12808 | 0.691825 | 86 | 6 | -2.4882 | 374 | 0.58357 | 0.83541 | 0.999716 | 374 | 4 | -2.4882 |
| KDM2A | 10 | 87 | 0.028862 | 0.1281 | 0.691825 | 87 | 8 | -2.3708 | 419 | 0.76781 | 0.92579 | 0.999716 | 419 | 2 | -2.3708 |
| CYP1B1 | 10 | 88 | 0.028938 | 0.12835 | 0.691825 | 88 | 7 | -2.548 | 397 | 0.67147 | 0.88118 | 0.999716 | 397 | 3 | -2.548 |
| MIPEP | 10 | 89 | 0.02918 | 0.12924 | 0.691825 | 89 | 7 | -2.4616 | 476 | 0.99584 | 0.99659 | 0.999716 | 476 | 1 | -2.4616 |
| EGLN1 | 10 | 90 | 0.029377 | 0.12999 | 0.691825 | 90 | 8 | -2.0485 | 441 | 0.85706 | 0.95459 | 0.999716 | 441 | 1 | -2.0485 |
| MMS19 | 10 | 91 | 0.029979 | 0.1322 | 0.695892 | 91 | 8 | -1.9168 | 435 | 0.8335 | 0.94661 | 0.999716 | 435 | 2 | -1.9168 |
| RRM2 | 10 | 92 | 0.030755 | 0.13493 | 0.70251 | 92 | 7 | -2.4263 | 436 | 0.84094 | 0.94919 | 0.999716 | 436 | 3 | -2.4263 |
| CYB5R2 | 10 | 93 | 0.03162 | 0.13802 | 0.710501 | 93 | 4 | 3.4849 | 97 | 0.064038 | 0.22688 | 0.999716 | 97 | 6 | 3.4849 |
| CYGB | 10 | 94 | 0.032318 | 0.14061 | 0.710501 | 94 | 5 | 0.32112 | 82 | 0.047856 | 0.18304 | 0.999716 | 82 | 5 | 0.32112 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CYP4F2 | 10 | 95 | 0.032398 | 0.14091 | 0.710501 | 95 | 6 | -2.1533 | 236 | 0.21484 | 0.5057 | 0.999716 | 236 | 4 | -2.1533 |
| FTO | 10 | 96 | 0.033056 | 0.14286 | 0.710825 | 96 | 8 | -2.2252 | 407 | 0.72665 | 0.909 | 0.999716 | 407 | 2 | -2.2252 |
| NFS1 | 10 | 97 | 0.033381 | 0.14395 | 0.710825 | 97 | 6 | -2.2755 | 328 | 0.42912 | 0.72893 | 0.999716 | 328 | 3 | -2.2755 |
| EIF2AK1 | 10 | 98 | 0.034984 | 0.14966 | 0.722984 | 98 | 3 | 2.2036 | 229 | 0.20474 | 0.49146 | 0.999716 | 229 | 6 | 2.2036 |
| NDUFS8 | 10 | 99 | 0.035032 | 0.14975 | 0.722984 | 99 | 6 | -2.5476 | 214 | 0.18681 | 0.46393 | 0.999716 | 214 | 4 | -2.5476 |
| AIFM3 | 10 | 100 | 0.035817 | 0.15211 | 0.722984 | 100 | 7 | -2.5805 | 356 | 0.48984 | 0.77917 | 0.999716 | 356 | 3 | -2.5805 |
| MYLIP | 10 | 101 | 0.035914 | 0.15245 | 0.722984 | 101 | 7 | -2.0711 | 321 | 0.41762 | 0.71905 | 0.999716 | 321 | 2 | -2.0711 |
| ACO2 | 10 | 102 | 0.037109 | 0.15637 | 0.726368 | 102 | 7 | -2.0787 | 28 | 0.011214 | 0.05846 | 0.940476 | 28 | 3 | -2.0787 |
| FABP7 | 10 | 103 | 0.037194 | 0.15661 | 0.726368 | 103 | 6 | -2.4804 | 241 | 0.22687 | 0.52303 | 0.999716 | 241 | 3 | -2.4804 |
| ASPH | 10 | 104 | 0.037842 | 0.15874 | 0.726368 | 104 | 6 | -2.5921 | 409 | 0.73629 | 0.91375 | 0.999716 | 409 | 4 | -2.5921 |
| ALOX12 | 10 | 105 | 0.038484 | 0.16084 | 0.726368 | 105 | 7 | -2.3836 | 372 | 0.57667 | 0.83164 | 0.999716 | 372 | 3 | -2.3836 |
| CYB5R1 | 10 | 106 | 0.038861 | 0.16207 | 0.726368 | 106 | 6 | -1.9085 | 274 | 0.29169 | 0.60442 | 0.999716 | 274 | 4 | -1.9085 |
| ATP6V0A2 | 10 | 107 | 0.038925 | 0.16226 | 0.726368 | 107 | 8 | -2.3993 | 470 | 0.97814 | 0.99198 | 0.999716 | 470 | 2 | -2.3993 |
| BCMO1 | 10 | 108 | 0.04168 | 0.1711 | 0.75487 | 108 | 4 | 1.584 | 287 | 0.31807 | 0.63041 | 0.999716 | 287 | 5 | 1.584 |
| ADI1 | 10 | 109 | 0.042303 | 0.17318 | 0.75487 | 109 | 8 | -2.1977 | 365 | 0.5414 | 0.81281 | 0.999716 | 365 | 1 | -2.1977 |
| SDHB | 10 | 110 | 0.042352 | 0.17335 | 0.75487 | 110 | 6 | -2.3466 | 164 | 0.12769 | 0.36941 | 0.999716 | 164 | 4 | -2.3466 |
| CYB5RL | 10 | 111 | 0.043348 | 0.17687 | 0.758648 | 111 | 5 | 1.1196 | 212 | 0.18435 | 0.46013 | 0.999716 | 212 | 5 | 1.1196 |
| FTL | 10 | 112 | 0.044937 | 0.18208 | 0.758648 | 112 | 7 | -1.8282 | 279 | 0.30816 | 0.62046 | 0.999716 | 279 | 3 | -1.8282 |
| FLVCR1 | 10 | 113 | 0.045012 | 0.18239 | 0.758648 | 113 | 4 | 1.2904 | 263 | 0.27325 | 0.58599 | 0.999716 | 263 | 6 | 1.2904 |
| FXN | 10 | 114 | 0.045999 | 0.18565 | 0.758648 | 114 | 6 | -2.1878 | 98 | 0.064286 | 0.22743 | 0.999716 | 98 | 4 | -2.1878 |
| ADO | 10 | 115 | 0.046228 | 0.18637 | 0.758648 | 115 | 8 | -2.0476 | 418 | 0.765 | 0.92497 | 0.999716 | 418 | 2 | -2.0476 |
| TF | 10 | 116 | 0.046675 | 0.18782 | 0.758648 | 116 | 4 | 2.2503 | 195 | 0.15815 | 0.41968 | 0.999716 | 195 | 6 | 2.2503 |
| HPD | 10 | 117 | 0.046855 | 0.18828 | 0.758648 | 117 | 4 | 1.3127 | 77 | 0.04168 | 0.16515 | 0.999716 | 77 | 5 | 1.3127 |
| SLC39A8 | 10 | 118 | 0.047145 | 0.18925 | 0.758648 | 118 | 7 | -2.4188 | 228 | 0.20458 | 0.4912 | 0.999716 | 228 | 3 | -2.4188 |
| NDFIP1 | 10 | 119 | 0.047416 | 0.19029 | 0.758648 | 119 | 8 | -2.0461 | 432 | 0.82682 | 0.94413 | 0.999716 | 432 | 1 | -2.0461 |
| CBS | 10 | 120 | 0.047744 | 0.19148 | 0.758648 | 120 | 8 | -2.273 | 369 | 0.55764 | 0.82162 | 0.999716 | 369 | 2 | -2.273 |
| FBXL5 | 10 | 121 | 0.04817 | 0.19275 | 0.758648 | 121 | 6 | -2.4183 | 153 | 0.11263 | 0.34264 | 0.999716 | 153 | 4 | -2.4183 |
| MDM4 | 10 | 122 | 0.048568 | 0.19427 | 0.758648 | 122 | 5 | 0.27578 | 242 | 0.22727 | 0.52359 | 0.999716 | 242 | 5 | 0.27578 |
| LTF | 10 | 123 | 0.048948 | 0.19544 | 0.758648 | 123 | 6 | -2.4645 | 285 | 0.31578 | 0.62817 | 0.999716 | 285 | 4 | -2.4645 |
| HBM | 10 | 124 | 0.049762 | 0.19786 | 0.758648 | 124 | 6 | -1.9434 | 284 | 0.31546 | 0.6279 | 0.999716 | 284 | 4 | -1.9434 |
| ADHFE1 | 10 | 125 | 0.049811 | 0.19798 | 0.758648 | 125 | 4 | 0.55918 | 151 | 0.10995 | 0.33764 | 0.999716 | 151 | 4 | 0.55918 |
| CYP2C18 | 10 | 126 | 0.050593 | 0.20038 | 0.761772 | 126 | 7 | -2.2634 | 431 | 0.82496 | 0.94352 | 0.999716 | 431 | 3 | -2.2634 |
| FOLH1 | 10 | 127 | 0.051646 | 0.20371 | 0.764729 | 127 | 3 | 4.5748 | 19 | 0.0056603 | 0.032424 | 0.817419 | 19 | 7 | 4.5748 |
| P4HA2 | 10 | 128 | 0.051953 | 0.20458 | 0.764729 | 128 | 7 | -2.5235 | 270 | 0.27758 | 0.59103 | 0.999716 | 270 | 3 | -2.5235 |
| DDX11 | 10 | 129 | 0.052501 | 0.20595 | 0.764729 | 129 | 4 | 0.79773 | 420 | 0.77151 | 0.92674 | 0.999716 | 420 | 2 | 0.79773 |
| CACNA1C | 10 | 130 | 0.055839 | 0.21501 | 0.783071 | 130 | 6 | -2.1703 | 382 | 0.59963 | 0.84409 | 0.999716 | 382 | 3 | -2.1703 |
| MPPED1 | 10 | 131 | 0.056275 | 0.21617 | 0.783071 | 131 | 6 | -2.063 | 280 | 0.31024 | 0.62258 | 0.999716 | 280 | 4 | -2.063 |
| ABCE1 | 10 | 132 | 0.056769 | 0.2173 | 0.783071 | 132 | 6 | -1.928 | 459 | 0.94099 | 0.98004 | 0.999716 | 459 | 1 | -1.928 |
| FECH | 10 | 133 | 0.057372 | 0.21887 | 0.783071 | 133 | 7 | -2.5086 | 447 | 0.87696 | 0.96172 | 0.999716 | 447 | 3 | -2.5086 |
| COQ7 | 10 | 134 | 0.058774 | 0.22226 | 0.783071 | 134 | 5 | -0.5077 | 293 | 0.33013 | 0.64195 | 0.999716 | 293 | 5 | -0.5077 |
| NR1D2 | 10 | 135 | 0.059252 | 0.22338 | 0.783071 | 135 | 5 | -0.42755 | 11 | 0.0028024 | 0.017591 | 0.752211 | 11 | 4 | -0.42755 |
| GSTP1 | 10 | 136 | 0.059438 | 0.22374 | 0.783071 | 136 | 7 | -2.3287 | 384 | 0.60646 | 0.84771 | 0.999716 | 384 | 3 | -2.3287 |
| KIF4B | 10 | 137 | 0.05988 | 0.22494 | 0.783071 | 137 | 4 | 4.0373 | 17 | 0.0051445 | 0.030097 | 0.810185 | 17 | 6 | 4.0373 |
| PHYHD1 | 10 | 138 | 0.060797 | 0.22726 | 0.783071 | 138 | 7 | -2.0147 | 351 | 0.47561 | 0.76795 | 0.999716 | 351 | 3 | -2.0147 |
| CYP4V2 | 10 | 139 | 0.061519 | 0.22911 | 0.783071 | 139 | 5 | 1.3995 | 161 | 0.12145 | 0.35794 | 0.999716 | 161 | 5 | 1.3995 |
| HSPA6 | 10 | 140 | 0.063101 | 0.2329 | 0.783071 | 140 | 6 | -1.5183 | 302 | 0.36621 | 0.6741 | 0.999716 | 302 | 4 | -1.5183 |
| PAPL | 10 | 141 | 0.063155 | 0.23307 | 0.783071 | 141 | 6 | -0.85181 | 337 | 0.45441 | 0.75072 | 0.999716 | 337 | 3 | -0.85181 |
| HCCS | 10 | 142 | 0.064443 | 0.23633 | 0.783071 | 142 | 7 | -2.2439 | 124 | 0.080987 | 0.26942 | 0.999716 | 124 | 3 | -2.2439 |
| ALKBH7 | 10 | 143 | 0.064511 | 0.23651 | 0.783071 | 143 | 7 | -2.3138 | 403 | 0.71059 | 0.90107 | 0.999716 | 403 | 3 | -2.3138 |
| SRC | 10 | 144 | 0.064589 | 0.23665 | 0.783071 | 144 | 7 | -2.1966 | 444 | 0.86773 | 0.95856 | 0.999716 | 444 | 3 | -2.1966 |
| FA2H | 10 | 145 | 0.064789 | 0.23705 | 0.783071 | 145 | 4 | 2.5979 | 115 | 0.074097 | 0.25225 | 0.999716 | 115 | 6 | 2.5979 |
| CYCS | 10 | 146 | 0.06642 | 0.24113 | 0.791112 | 146 | 5 | 1.1013 | 262 | 0.2702 | 0.58221 | 0.999716 | 262 | 5 | 1.1013 |
| CYP2B6 | 10 | 147 | 0.069535 | 0.24839 | 0.809378 | 147 | 4 | 1.6807 | 201 | 0.16449 | 0.42974 | 0.999716 | 201 | 6 | 1.6807 |
| CYP4F22 | 10 | 148 | 0.071727 | 0.25369 | 0.81884 | 148 | 6 | -2.3117 | 338 | 0.45588 | 0.75178 | 0.999716 | 338 | 4 | -2.3117 |
| BRIP1 | 10 | 149 | 0.072161 | 0.25471 | 0.81884 | 149 | 7 | -2.1305 | 360 | 0.50477 | 0.7907 | 0.999716 | 360 | 3 | -2.1305 |
| COX10 | 10 | 150 | 0.073786 | 0.25875 | 0.820849 | 150 | 7 | -2.3202 | 442 | 0.85776 | 0.95478 | 0.999716 | 442 | 3 | -2.3202 |
| HBZ | 10 | 151 | 0.074093 | 0.25947 | 0.820849 | 151 | 5 | -1.1364 | 377 | 0.58804 | 0.83793 | 0.999716 | 377 | 4 | -1.1364 |
| CYP3A5 | 10 | 152 | 0.074538 | 0.26048 | 0.820849 | 152 | 5 | -0.47624 | 275 | 0.29205 | 0.60477 | 0.999716 | 275 | 4 | -0.47624 |
| ALKBH6 | 10 | 153 | 0.075577 | 0.26297 | 0.821152 | 153 | 6 | -1.6032 | 311 | 0.39261 | 0.69757 | 0.999716 | 311 | 4 | -1.6032 |
| ASAH2 | 10 | 154 | 0.076537 | 0.26523 | 0.821152 | 154 | 4 | 2.0721 | 131 | 0.092114 | 0.29614 | 0.999716 | 131 | 6 | 2.0721 |
| EGLN2 | 10 | 155 | 0.076773 | 0.26572 | 0.821152 | 155 | 5 | 0.84466 | 174 | 0.13895 | 0.38814 | 0.999716 | 174 | 5 | 0.84466 |
| CLSTN1 | 10 | 156 | 0.077768 | 0.26821 | 0.82355 | 156 | 7 | -1.5966 | 408 | 0.73237 | 0.91188 | 0.999716 | 408 | 3 | -1.5966 |
| PXDNL | 10 | 157 | 0.080202 | 0.27398 | 0.829438 | 157 | 6 | -2.2656 | 434 | 0.83067 | 0.94566 | 0.999716 | 434 | 2 | -2.2656 |
| MARK3 | 10 | 158 | 0.080987 | 0.27575 | 0.829438 | 158 | 6 | -1.392 | 86 | 0.052767 | 0.19646 | 0.999716 | 86 | 4 | -1.392 |
| METAP1D | 10 | 159 | 0.081598 | 0.2772 | 0.829438 | 159 | 5 | -0.60043 | 103 | 0.068352 | 0.23747 | 0.999716 | 103 | 4 | -0.60043 |
| ELP3 | 10 | 160 | 0.082622 | 0.27959 | 0.829438 | 160 | 6 | -1.3016 | 450 | 0.89993 | 0.97027 | 0.999716 | 450 | 3 | -1.3016 |
| NR1D1 | 10 | 161 | 0.083109 | 0.2809 | 0.829438 | 161 | 7 | -2.0019 | 345 | 0.46285 | 0.7573 | 0.999716 | 345 | 3 | -2.0019 |
| DDX5 | 10 | 162 | 0.08362 | 0.2821 | 0.829438 | 162 | 5 | -0.24485 | 359 | 0.50077 | 0.78739 | 0.999716 | 359 | 4 | -0.24485 |
| BCO2 | 10 | 163 | 0.085753 | 0.28695 | 0.829438 | 163 | 7 | -1.9343 | 297 | 0.34687 | 0.65706 | 0.999716 | 297 | 3 | -1.9343 |
| COX15 | 10 | 164 | 0.086647 | 0.28911 | 0.829438 | 164 | 7 | -2.1388 | 469 | 0.97519 | 0.9906 | 0.999716 | 469 | 2 | -2.1388 |
| HGD | 10 | 165 | 0.087254 | 0.29044 | 0.829438 | 165 | 5 | 0.20659 | 218 | 0.18909 | 0.4678 | 0.999716 | 218 | 5 | 0.20659 |
| GLRX2 | 10 | 166 | 0.087395 | 0.29077 | 0.829438 | 166 | 6 | -1.4507 | 126 | 0.082617 | 0.27341 | 0.999716 | 126 | 3 | -1.4507 |
| REV3L | 10 | 167 | 0.088146 | 0.29247 | 0.829438 | 167 | 6 | -2.2586 | 320 | 0.41197 | 0.71443 | 0.999716 | 320 | 3 | -2.2586 |
| FADS1 | 10 | 168 | 0.089709 | 0.29591 | 0.829438 | 168 | 5 | -0.73079 | 312 | 0.39285 | 0.69776 | 0.999716 | 312 | 4 | -0.73079 |
| CYB5R4 | 10 | 169 | 0.089866 | 0.29615 | 0.829438 | 169 | 5 | -0.41424 | 69 | 0.038337 | 0.156 | 0.999716 | 69 | 4 | -0.41424 |
| HTT | 10 | 170 | 0.090584 | 0.2976 | 0.829438 | 170 | 6 | -1.1758 | 20 | 0.0060525 | 0.034422 | 0.824405 | 20 | 4 | -1.1758 |
| MCOLN1 | 10 | 171 | 0.090798 | 0.29804 | 0.829438 | 171 | 4 | 2.1574 | 251 | 0.24036 | 0.54164 | 0.999716 | 251 | 6 | 2.1574 |
| TMEM62 | 10 | 172 | 0.09106 | 0.29866 | 0.829438 | 172 | 5 | -0.71193 | 352 | 0.4774 | 0.76927 | 0.999716 | 352 | 4 | -0.71193 |
| CYP7A1 | 10 | 173 | 0.091519 | 0.29957 | 0.829438 | 173 | 6 | -1.4317 | 323 | 0.42081 | 0.72177 | 0.999716 | 323 | 2 | -1.4317 |
| CNNM2 | 10 | 174 | 0.092829 | 0.30273 | 0.82964 | 174 | 7 | -2.214 | 73 | 0.040554 | 0.16192 | 0.999716 | 73 | 3 | -2.214 |
| SLC39A14 | 10 | 175 | 0.093565 | 0.30454 | 0.82964 | 175 | 4 | 2.1661 | 200 | 0.16441 | 0.42963 | 0.999716 | 200 | 5 | 2.1661 |
| ENAH | 10 | 176 | 0.093763 | 0.30484 | 0.82964 | 176 | 3 | 3.3827 | 99 | 0.066428 | 0.23302 | 0.999716 | 99 | 7 | 3.3827 |
| ETHE1 | 10 | 177 | 0.095349 | 0.30867 | 0.835338 | 177 | 5 | -0.34772 | 213 | 0.18576 | 0.46235 | 0.999716 | 213 | 5 | -0.34772 |
| POLD1 | 10 | 178 | 0.099125 | 0.31709 | 0.852041 | 178 | 5 | 0.017061 | 269 | 0.27693 | 0.59043 | 0.999716 | 269 | 5 | 0.017061 |
| SUOX | 10 | 179 | 0.10165 | 0.32272 | 0.852041 | 179 | 5 | -0.20568 | 453 | 0.90925 | 0.97359 | 0.999716 | 453 | 2 | -0.20568 |
| P4HA3 | 10 | 180 | 0.1022 | 0.32385 | 0.852041 | 180 | 4 | 1.9835 | 247 | 0.23683 | 0.53669 | 0.999716 | 247 | 6 | 1.9835 |
| HDAC1 | 10 | 181 | 0.10246 | 0.3244 | 0.852041 | 181 | 6 | -0.93562 | 198 | 0.16245 | 0.42661 | 0.999716 | 198 | 4 | -0.93562 |
| ISCA2 | 10 | 182 | 0.10272 | 0.32494 | 0.852041 | 182 | 6 | -2.2009 | 456 | 0.92399 | 0.97641 | 0.999716 | 456 | 2 | -2.2009 |
| ETFDH | 10 | 183 | 0.10523 | 0.33042 | 0.852041 | 183 | 6 | -1.8762 | 72 | 0.04033 | 0.16136 | 0.999716 | 72 | 4 | -1.8762 |
| SLC39A11 | 10 | 184 | 0.10533 | 0.33066 | 0.852041 | 184 | 7 | -2.1499 | 186 | 0.1493 | 0.40527 | 0.999716 | 186 | 3 | -2.1499 |
| KDM5B | 10 | 185 | 0.10594 | 0.33183 | 0.852041 | 185 | 7 | -1.8293 | 445 | 0.87547 | 0.96135 | 0.999716 | 445 | 1 | -1.8293 |
| TYW5 | 10 | 186 | 0.10702 | 0.33422 | 0.852041 | 186 | 5 | 0.13224 | 215 | 0.18748 | 0.46502 | 0.999716 | 215 | 5 | 0.13224 |
| LEPRE1 | 10 | 187 | 0.10756 | 0.33528 | 0.852041 | 187 | 5 | -0.68448 | 380 | 0.59859 | 0.84361 | 0.999716 | 380 | 4 | -0.68448 |
| PGRMC1 | 10 | 188 | 0.10794 | 0.33603 | 0.852041 | 188 | 6 | -1.0998 | 173 | 0.13723 | 0.38532 | 0.999716 | 173 | 4 | -1.0998 |
| KDM8 | 10 | 189 | 0.10802 | 0.33619 | 0.852041 | 189 | 7 | -2.0797 | 410 | 0.74139 | 0.91651 | 0.999716 | 410 | 2 | -2.0797 |
| APP | 10 | 190 | 0.10951 | 0.33956 | 0.852618 | 190 | 5 | -0.40399 | 178 | 0.14312 | 0.39526 | 0.999716 | 178 | 5 | -0.40399 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALB | 10 | 191 | 0.1097 | 0.33998 | 0.852618 | 191 | 7 | -2.156 | 440 | 0.8565 | 0.95442 | 0.999716 | 440 | 3 | -2.156 |
| NUBP1 | 10 | 192 | 0.11133 | 0.34351 | 0.856982 | 192 | 6 | -1.9561 | 439 | 0.84752 | 0.95131 | 0.999716 | 439 | 3 | -1.9561 |
| NOS3 | 10 | 193 | 0.11332 | 0.34752 | 0.857912 | 193 | 5 | 0.17293 | 294 | 0.33495 | 0.64613 | 0.999716 | 294 | 5 | 0.17293 |
| NEK6 | 10 | 194 | 0.11377 | 0.34851 | 0.857912 | 194 | 7 | -1.7901 | 405 | 0.71973 | 0.90567 | 0.999716 | 405 | 3 | -1.7901 |
| MUTYH | 10 | 195 | 0.11418 | 0.34925 | 0.857912 | 195 | 7 | -1.4436 | 203 | 0.16712 | 0.43383 | 0.999716 | 203 | 2 | -1.4436 |
| NDUFS7 | 10 | 196 | 0.11574 | 0.35272 | 0.862014 | 196 | 6 | -1.5775 | 451 | 0.90336 | 0.97166 | 0.999716 | 451 | 3 | -1.5775 |
| CISD3 | 10 | 197 | 0.11729 | 0.35576 | 0.863504 | 197 | 5 | 0.29778 | 350 | 0.47535 | 0.76777 | 0.999716 | 350 | 5 | 0.29778 |
| KDM2B | 10 | 198 | 0.11786 | 0.35694 | 0.863504 | 198 | 5 | -0.76917 | 106 | 0.069833 | 0.24132 | 0.999716 | 106 | 4 | -0.76917 |
| CYB5D2 | 10 | 199 | 0.11884 | 0.3591 | 0.864358 | 199 | 3 | 2.4182 | 180 | 0.14497 | 0.39774 | 0.999716 | 180 | 6 | 2.4182 |
| NOX3 | 10 | 200 | 0.11974 | 0.36094 | 0.86444 | 200 | 6 | -1.6034 | 363 | 0.52471 | 0.80399 | 0.999716 | 363 | 3 | -1.6034 |
| NARFL | 10 | 201 | 0.12139 | 0.36432 | 0.868195 | 201 | 6 | -2.0371 | 366 | 0.55045 | 0.81762 | 0.999716 | 366 | 4 | -2.0371 |
| MAP2 | 10 | 202 | 0.12428 | 0.37074 | 0.870137 | 202 | 7 | -1.4643 | 261 | 0.26914 | 0.58084 | 0.999716 | 261 | 3 | -1.4643 |
| CYP8B1 | 10 | 203 | 0.12594 | 0.37429 | 0.870137 | 203 | 4 | 2.8016 | 138 | 0.098259 | 0.31102 | 0.999716 | 138 | 6 | 2.8016 |
| ACP5 | 10 | 204 | 0.12594 | 0.3743 | 0.870137 | 204 | 6 | -1.7063 | 375 | 0.58576 | 0.83652 | 0.999716 | 375 | 3 | -1.7063 |
| JMJD7 | 10 | 205 | 0.12614 | 0.37471 | 0.870137 | 205 | 7 | -1.8841 | 401 | 0.69521 | 0.89315 | 0.999716 | 401 | 3 | -1.8841 |
| ASPHD2 | 10 | 206 | 0.12712 | 0.37666 | 0.870137 | 206 | 4 | 3.0004 | 139 | 0.098469 | 0.31152 | 0.999716 | 139 | 6 | 3.0004 |
| LIAS | 10 | 207 | 0.12816 | 0.37883 | 0.870137 | 207 | 5 | -0.35844 | 324 | 0.42151 | 0.72237 | 0.999716 | 324 | 5 | -0.35844 |
| COPA | 10 | 208 | 0.13072 | 0.38414 | 0.870137 | 208 | 6 | -2.0848 | 152 | 0.11107 | 0.33998 | 0.999716 | 152 | 4 | -2.0848 |
| SLC39A1 | 10 | 209 | 0.13114 | 0.38514 | 0.870137 | 209 | 5 | -0.42988 | 94 | 0.05988 | 0.21586 | 0.999716 | 94 | 4 | -0.42988 |
| BBOX1 | 10 | 210 | 0.1312 | 0.38521 | 0.870137 | 210 | 4 | 2.0358 | 224 | 0.20205 | 0.48758 | 0.999716 | 224 | 6 | 2.0358 |
| CYP4F12 | 10 | 211 | 0.132 | 0.38685 | 0.870137 | 211 | 6 | -2.1079 | 292 | 0.3299 | 0.64162 | 0.999716 | 292 | 3 | -2.1079 |
| PDE4D | 10 | 212 | 0.13266 | 0.38808 | 0.870137 | 212 | 5 | 0.21041 | 135 | 0.096667 | 0.30709 | 0.999716 | 135 | 5 | 0.21041 |
| JMJD4 | 10 | 213 | 0.1335 | 0.38975 | 0.870137 | 213 | 6 | -2.2396 | 146 | 0.1033 | 0.32257 | 0.999716 | 146 | 4 | -2.2396 |
| CYP11B1 | 10 | 214 | 0.13419 | 0.39092 | 0.870137 | 214 | 4 | 2.0155 | 210 | 0.18316 | 0.45829 | 0.999716 | 210 | 6 | 2.0155 |
| LEPREL1 | 10 | 215 | 0.1358 | 0.39402 | 0.870137 | 215 | 6 | -2.0529 | 127 | 0.085504 | 0.28074 | 0.999716 | 127 | 4 | -2.0529 |
| CYB561 | 10 | 216 | 0.13714 | 0.3966 | 0.870137 | 216 | 7 | -1.3205 | 301 | 0.36496 | 0.67305 | 0.999716 | 301 | 3 | -1.3205 |
| MSMO1 | 10 | 217 | 0.13734 | 0.39698 | 0.870137 | 217 | 6 | -2.0267 | 209 | 0.18095 | 0.45503 | 0.999716 | 209 | 3 | -2.0267 |
| JMJD8 | 10 | 218 | 0.13765 | 0.3974 | 0.870137 | 218 | 5 | -0.37717 | 411 | 0.74436 | 0.91806 | 0.999716 | 411 | 3 | -0.37717 |
| APBB2 | 10 | 219 | 0.13792 | 0.3979 | 0.870137 | 219 | 5 | -0.05354 | 347 | 0.4711 | 0.7645 | 0.999716 | 347 | 4 | -0.05354 |
| SCARA5 | 10 | 220 | 0.13875 | 0.39976 | 0.870137 | 220 | 4 | 1.3534 | 167 | 0.13114 | 0.37563 | 0.999716 | 167 | 5 | 1.3534 |
| PER1 | 10 | 221 | 0.13961 | 0.40157 | 0.870137 | 221 | 6 | -1.8934 | 386 | 0.62247 | 0.8557 | 0.999716 | 386 | 4 | -1.8934 |
| IDO1 | 10 | 222 | 0.14061 | 0.40366 | 0.870137 | 222 | 7 | -1.7965 | 244 | 0.23236 | 0.53047 | 0.999716 | 244 | 3 | -1.7965 |
| KDM4A | 10 | 223 | 0.14132 | 0.40509 | 0.870137 | 223 | 7 | -2.0441 | 464 | 0.96494 | 0.98691 | 0.999716 | 464 | 2 | -2.0441 |
| TET3 | 10 | 224 | 0.14363 | 0.40957 | 0.875818 | 224 | 7 | -1.9072 | 235 | 0.2144 | 0.50506 | 0.999716 | 235 | 2 | -1.9072 |
| MRE11A | 10 | 225 | 0.14618 | 0.41398 | 0.881323 | 225 | 7 | -1.695 | 252 | 0.24187 | 0.54367 | 0.999716 | 252 | 3 | -1.695 |
| CYP4X1 | 10 | 226 | 0.15058 | 0.42261 | 0.891976 | 226 | 7 | -1.1085 | 278 | 0.30348 | 0.61606 | 0.999716 | 278 | 3 | -1.1085 |
| JMJD6 | 10 | 227 | 0.15065 | 0.42271 | 0.891976 | 227 | 6 | -1.94 | 246 | 0.23506 | 0.53429 | 0.999716 | 246 | 4 | -1.94 |
| AMDHD1 | 10 | 228 | 0.15379 | 0.42901 | 0.895187 | 228 | 3 | 4.1126 | 24 | 0.0080359 | 0.043816 | 0.874504 | 24 | 7 | 4.1126 |
| ALOX12B | 10 | 229 | 0.15481 | 0.43093 | 0.895187 | 229 | 7 | -0.99213 | 364 | 0.54016 | 0.81242 | 0.999716 | 364 | 3 | -0.99213 |
| MIOX | 10 | 230 | 0.15528 | 0.4319 | 0.895187 | 230 | 6 | -1.508 | 148 | 0.10794 | 0.33289 | 0.999716 | 148 | 3 | -1.508 |
| NENF | 10 | 231 | 0.15546 | 0.43231 | 0.895187 | 231 | 5 | 0.00228 | 41 | 0.018059 | 0.085829 | 0.940476 | 41 | 5 | 0.00228 |
| PHYH | 10 | 232 | 0.15614 | 0.43358 | 0.895187 | 232 | 7 | -1.6749 | 170 | 0.13419 | 0.3803 | 0.999716 | 170 | 3 | -1.6749 |
| ATP6V1G1 | 10 | 233 | 0.15964 | 0.4399 | 0.9011 | 233 | 7 | -1.7155 | 343 | 0.45888 | 0.75415 | 0.999716 | 343 | 3 | -1.7155 |
| KLKB1 | 10 | 234 | 0.1627 | 0.44542 | 0.9011 | 234 | 4 | 1.3213 | 91 | 0.054947 | 0.20294 | 0.999716 | 91 | 5 | 1.3213 |
| APBB3 | 10 | 235 | 0.16565 | 0.45069 | 0.9011 | 235 | 2 | 4.2893 | 27 | 0.010036 | 0.053291 | 0.940476 | 27 | 7 | 4.2893 |
| CA6 | 10 | 236 | 0.16712 | 0.45254 | 0.9011 | 236 | 5 | -0.72373 | 335 | 0.45024 | 0.74728 | 0.999716 | 335 | 4 | -0.72373 |
| MINA | 10 | 237 | 0.1677 | 0.45332 | 0.9011 | 237 | 3 | 3.9053 | 34 | 0.014687 | 0.072766 | 0.940476 | 34 | 7 | 3.9053 |
| NARF | 10 | 238 | 0.16832 | 0.45425 | 0.9011 | 238 | 4 | 1.4388 | 256 | 0.25528 | 0.56258 | 0.999716 | 256 | 5 | 1.4388 |
| HMOX2 | 10 | 239 | 0.16881 | 0.45491 | 0.9011 | 239 | 5 | -0.58114 | 67 | 0.035797 | 0.14863 | 0.999716 | 67 | 4 | -0.58114 |
| CYP2D6 | 10 | 240 | 0.1704 | 0.4573 | 0.9011 | 240 | 5 | -0.73638 | 373 | 0.58267 | 0.83489 | 0.999716 | 373 | 4 | -0.73638 |
| NUBP2 | 10 | 241 | 0.17209 | 0.45967 | 0.9011 | 241 | 6 | -1.4487 | 387 | 0.62633 | 0.85776 | 0.999716 | 387 | 4 | -1.4487 |
| GUCY1A2 | 10 | 242 | 0.17272 | 0.46047 | 0.9011 | 242 | 5 | 0.46283 | 183 | 0.14674 | 0.40082 | 0.999716 | 183 | 5 | 0.46283 |
| ISCA1 | 10 | 243 | 0.17298 | 0.4609 | 0.9011 | 243 | 4 | 1.2485 | 299 | 0.35637 | 0.66543 | 0.999716 | 299 | 5 | 1.2485 |
| NDUFS2 | 10 | 244 | 0.17423 | 0.46253 | 0.9011 | 244 | 6 | -1.5653 | 171 | 0.13475 | 0.38139 | 0.999716 | 171 | 3 | -1.5653 |
| CYB561D1 | 10 | 245 | 0.1743 | 0.4626 | 0.9011 | 245 | 5 | -0.11456 | 340 | 0.45742 | 0.75294 | 0.999716 | 340 | 5 | -0.11456 |
| CYP26A1 | 10 | 246 | 0.17618 | 0.46486 | 0.9011 | 246 | 6 | -1.8139 | 113 | 0.07292 | 0.24943 | 0.999716 | 113 | 4 | -1.8139 |
| CYP24A1 | 10 | 247 | 0.17736 | 0.4664 | 0.9011 | 247 | 6 | -1.8649 | 281 | 0.31053 | 0.62283 | 0.999716 | 281 | 4 | -1.8649 |
| PHF8 | 10 | 248 | 0.17833 | 0.46776 | 0.9011 | 248 | 6 | -1.9403 | 427 | 0.80058 | 0.93562 | 0.999716 | 427 | 3 | -1.9403 |
| C16orf52 | 10 | 249 | 0.1787 | 0.46842 | 0.9011 | 249 | 4 | 2.4732 | 65 | 0.033303 | 0.14158 | 0.999716 | 65 | 6 | 2.4732 |
| BACH1 | 10 | 250 | 0.1804 | 0.47071 | 0.901876 | 250 | 6 | -2.079 | 288 | 0.31842 | 0.63074 | 0.999716 | 288 | 4 | -2.079 |
| HIF1AN | 10 | 251 | 0.18226 | 0.47318 | 0.903007 | 251 | 5 | 0.77349 | 226 | 0.20335 | 0.4895 | 0.999716 | 226 | 5 | 0.77349 |
| PLOD2 | 10 | 252 | 0.18498 | 0.47701 | 0.906699 | 252 | 3 | 4.2213 | 33 | 0.014621 | 0.072497 | 0.940476 | 33 | 7 | 4.2213 |
| SLC25A28 | 10 | 253 | 0.18864 | 0.48241 | 0.913335 | 253 | 4 | 1.3031 | 348 | 0.47185 | 0.76516 | 0.999716 | 348 | 5 | 1.3031 |
| RSAD1 | 10 | 254 | 0.1951 | 0.49118 | 0.926275 | 254 | 5 | -0.16584 | 313 | 0.39351 | 0.69836 | 0.999716 | 313 | 5 | -0.16584 |
| SDHAF1 | 10 | 255 | 0.19957 | 0.49767 | 0.926852 | 255 | 4 | 3.8951 | 57 | 0.028024 | 0.12385 | 0.999716 | 57 | 6 | 3.8951 |
| CD163 | 10 | 256 | 0.19989 | 0.49814 | 0.926852 | 256 | 6 | -1.7567 | 110 | 0.071299 | 0.24501 | 0.999716 | 110 | 4 | -1.7567 |
| RSBN1 | 10 | 257 | 0.2018 | 0.50066 | 0.926852 | 257 | 5 | -0.7995 | 402 | 0.70463 | 0.89813 | 0.999716 | 402 | 4 | -0.7995 |
| CYP11A1 | 10 | 258 | 0.20207 | 0.50106 | 0.926852 | 258 | 6 | -1.7202 | 315 | 0.39967 | 0.7038 | 0.999716 | 315 | 4 | -1.7202 |
| DUOX1 | 10 | 259 | 0.20217 | 0.50116 | 0.926852 | 259 | 6 | -1.517 | 342 | 0.4586 | 0.75396 | 0.999716 | 342 | 3 | -1.517 |
| ALOX15B | 10 | 260 | 0.20477 | 0.50463 | 0.929679 | 260 | 4 | 2.7598 | 134 | 0.09391 | 0.30052 | 0.999716 | 134 | 6 | 2.7598 |
| GUCY1B3 | 10 | 261 | 0.20724 | 0.50744 | 0.931281 | 261 | 5 | -0.6969 | 140 | 0.098933 | 0.31252 | 0.999716 | 140 | 4 | -0.6969 |
| SLC11A1 | 10 | 262 | 0.20956 | 0.51045 | 0.933233 | 262 | 6 | -1.7508 | 9 | 0.0023134 | 0.014917 | 0.752211 | 9 | 4 | -1.7508 |
| PLOD1 | 10 | 263 | 0.21248 | 0.51431 | 0.936679 | 263 | 5 | 0.038837 | 74 | 0.04077 | 0.16252 | 0.999716 | 74 | 5 | 0.038837 |
| CYP2C9 | 10 | 264 | 0.21391 | 0.51625 | 0.936679 | 264 | 4 | 2.5953 | 179 | 0.14491 | 0.3977 | 0.999716 | 179 | 6 | 2.5953 |
| CYP26C1 | 10 | 265 | 0.2158 | 0.51882 | 0.937145 | 265 | 4 | 2.5264 | 176 | 0.14177 | 0.39313 | 0.999716 | 176 | 6 | 2.5264 |
| MFI2 | 10 | 266 | 0.21838 | 0.52227 | 0.937145 | 266 | 5 | -0.59008 | 322 | 0.41959 | 0.72083 | 0.999716 | 322 | 4 | -0.59008 |
| BOLA1 | 10 | 267 | 0.21982 | 0.52415 | 0.937145 | 267 | 5 | -0.11314 | 112 | 0.071654 | 0.24596 | 0.999716 | 112 | 5 | -0.11314 |
| CISD1 | 10 | 268 | 0.21997 | 0.52433 | 0.937145 | 268 | 3 | 3.6789 | 39 | 0.016585 | 0.08049 | 0.940476 | 39 | 7 | 3.6789 |
| HPDL | 10 | 269 | 0.22435 | 0.5303 | 0.944282 | 269 | 6 | -1.8084 | 205 | 0.17139 | 0.44073 | 0.999716 | 205 | 4 | -1.8084 |
| FADS3 | 10 | 270 | 0.22762 | 0.53441 | 0.944922 | 270 | 5 | -0.44225 | 358 | 0.49467 | 0.78294 | 0.999716 | 358 | 5 | -0.44225 |
| RORC | 10 | 271 | 0.22774 | 0.5346 | 0.944922 | 271 | 4 | 1.6564 | 258 | 0.26353 | 0.57333 | 0.999716 | 258 | 5 | 1.6564 |
| NOX1 | 10 | 272 | 0.23019 | 0.5376 | 0.946735 | 272 | 5 | -0.46275 | 271 | 0.2808 | 0.5939 | 0.999716 | 271 | 5 | -0.46275 |
| HRG | 10 | 273 | 0.23683 | 0.54594 | 0.9472 | 273 | 6 | -1.6843 | 185 | 0.14825 | 0.40342 | 0.999716 | 185 | 4 | -1.6843 |
| PPP3CA | 10 | 274 | 0.23769 | 0.54705 | 0.9472 | 274 | 3 | 4.6228 | 22 | 0.0077322 | 0.042305 | 0.874504 | 22 | 7 | 4.6228 |
| PPP3CB | 10 | 275 | 0.23837 | 0.54786 | 0.9472 | 275 | 6 | -1.1514 | 182 | 0.1463 | 0.40003 | 0.999716 | 182 | 4 | -1.1514 |
| CYBRD1 | 10 | 276 | 0.24052 | 0.55067 | 0.9472 | 276 | 3 | 1.4757 | 255 | 0.2517 | 0.55738 | 0.999716 | 255 | 6 | 1.4757 |
| JMJD1C | 10 | 277 | 0.24322 | 0.55414 | 0.9472 | 277 | 3 | 2.5326 | 158 | 0.11924 | 0.35396 | 0.999716 | 158 | 6 | 2.5326 |
| HDAC2 | 10 | 278 | 0.24726 | 0.55923 | 0.9472 | 278 | 5 | 0.97216 | 109 | 0.070684 | 0.24345 | 0.999716 | 109 | 5 | 0.97216 |
| CTRL | 1004 | 279 | 0.24861 | 0.56089 | 0.9472 | 279 | 394 | 2.0451 | 1 | 5.41E-12 | 4.97E-06 | 0.002381 | 1 | 567 | 2.0451 |
| CDO1 | 10 | 280 | 0.24965 | 0.56207 | 0.9472 | 280 | 6 | -1.6561 | 40 | 0.016655 | 0.080739 | 0.940476 | 40 | 3 | -1.6561 |
| IRG1 | 10 | 281 | 0.25699 | 0.5717 | 0.9472 | 281 | 4 | 0.9711 | 117 | 0.074538 | 0.25334 | 0.999716 | 117 | 4 | 0.9711 |
| BOLA3 | 10 | 282 | 0.25811 | 0.57299 | 0.9472 | 282 | 5 | -0.49658 | 381 | 0.59916 | 0.8439 | 0.999716 | 381 | 3 | -0.49658 |
| METAP1 | 10 | 283 | 0.25813 | 0.57299 | 0.9472 | 283 | 5 | 0.26517 | 336 | 0.45157 | 0.74833 | 0.999716 | 336 | 5 | 0.26517 |
| TET1 | 10 | 284 | 0.25926 | 0.57436 | 0.9472 | 284 | 5 | 0.89837 | 221 | 0.20058 | 0.48545 | 0.999716 | 221 | 5 | 0.89837 |
| DPH3 | 10 | 285 | 0.25984 | 0.57492 | 0.9472 | 285 | 4 | 1.4522 | 61 | 0.029934 | 0.13107 | 0.999716 | 61 | 5 | 1.4522 |
| ABAT | 10 | 286 | 0.26022 | 0.57542 | 0.9472 | 286 | 6 | -1.4985 | 283 | 0.31352 | 0.62602 | 0.999716 | 283 | 4 | -1.4985 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STEAP3 | 10 | 287 | 0.26026 | 0.57545 | 0.9472 | 287 | 5 | 0.10605 | 325 | 0.42195 | 0.72276 | 0.999716 | 325 | 5 | 0.10605 |
| NOS2 | 10 | 288 | 0.26108 | 0.57647 | 0.9472 | 288 | 5 | -0.23549 | 101 | 0.067804 | 0.23618 | 0.999716 | 101 | 5 | -0.23549 |
| PAH | 10 | 289 | 0.26243 | 0.57811 | 0.9472 | 289 | 6 | -1.61 | 289 | 0.32162 | 0.63381 | 0.999716 | 289 | 4 | -1.61 |
| HAMP | 10 | 290 | 0.2631 | 0.57886 | 0.9472 | 290 | 5 | 1.2917 | 184 | 0.14802 | 0.403 | 0.999716 | 184 | 5 | 1.2917 |
| PER3 | 10 | 291 | 0.26377 | 0.5798 | 0.9472 | 291 | 3 | 3.0164 | 123 | 0.080183 | 0.26749 | 0.999716 | 123 | 7 | 3.0164 |
| DUOX2 | 10 | 292 | 0.26614 | 0.58252 | 0.9472 | 292 | 6 | -1.6937 | 93 | 0.056594 | 0.20723 | 0.999716 | 93 | 4 | -1.6937 |
| CYP20A1 | 10 | 293 | 0.26716 | 0.58368 | 0.9472 | 293 | 5 | -0.87123 | 290 | 0.32528 | 0.63754 | 0.999716 | 290 | 2 | -0.87123 |
| KIF4A | 10 | 294 | 0.268 | 0.5848 | 0.9472 | 294 | 6 | -1.5453 | 392 | 0.64288 | 0.86614 | 0.999716 | 392 | 3 | -1.5453 |
| HAAO | 10 | 295 | 0.26847 | 0.58538 | 0.9472 | 295 | 5 | -0.5253 | 370 | 0.57305 | 0.8299 | 0.999716 | 370 | 4 | -0.5253 |
| SLC46A1 | 10 | 296 | 0.27099 | 0.58843 | 0.9472 | 296 | 5 | -0.98496 | 389 | 0.63654 | 0.8632 | 0.999716 | 389 | 4 | -0.98496 |
| SLC39A2 | 10 | 297 | 0.27315 | 0.59085 | 0.9472 | 297 | 4 | 2.3311 | 208 | 0.17889 | 0.45184 | 0.999716 | 208 | 6 | 2.3311 |
| CISD2 | 10 | 298 | 0.27369 | 0.59137 | 0.9472 | 298 | 3 | 1.3844 | 264 | 0.27362 | 0.58635 | 0.999716 | 264 | 6 | 1.3844 |
| CYP4Z1 | 10 | 299 | 0.27621 | 0.59427 | 0.9472 | 299 | 4 | 3.3556 | 18 | 0.0052283 | 0.030445 | 0.810185 | 18 | 6 | 3.3556 |
| SGK1 | 10 | 300 | 0.2771 | 0.59521 | 0.9472 | 300 | 5 | -0.18419 | 219 | 0.19277 | 0.47327 | 0.999716 | 219 | 4 | -0.18419 |
| CYP27C1 | 10 | 301 | 0.28367 | 0.60254 | 0.953803 | 301 | 4 | 0.74566 | 257 | 0.26242 | 0.57194 | 0.999716 | 257 | 3 | 0.74566 |
| NPAS2 | 10 | 302 | 0.28439 | 0.60335 | 0.953803 | 302 | 5 | -0.10792 | 132 | 0.092175 | 0.29626 | 0.999716 | 132 | 4 | -0.10792 |
| LDHD | 10 | 303 | 0.28644 | 0.60554 | 0.954128 | 303 | 6 | -1.3585 | 355 | 0.48949 | 0.77879 | 0.999716 | 355 | 4 | -1.3585 |
| FTMT | 10 | 304 | 0.29353 | 0.61443 | 0.954471 | 304 | 6 | -1.2337 | 367 | 0.55069 | 0.81778 | 0.999716 | 367 | 3 | -1.2337 |
| CYB561A3 | 10 | 305 | 0.29503 | 0.61629 | 0.954471 | 305 | 5 | -0.7918 | 416 | 0.75541 | 0.9222 | 0.999716 | 416 | 3 | -0.7918 |
| LYRM7 | 8 | 306 | 0.2952 | 0.59164 | 0.9472 | 306 | 3 | 1.3288 | 341 | 0.45769 | 0.72443 | 0.999716 | 341 | 4 | 1.3288 |
| CYP3A7 | 10 | 307 | 0.29676 | 0.61825 | 0.954471 | 307 | 4 | 0.95955 | 303 | 0.37503 | 0.6819 | 0.999716 | 303 | 4 | 0.95955 |
| OGFOD2 | 10 | 308 | 0.30034 | 0.62279 | 0.954471 | 308 | 6 | -1.5804 | 334 | 0.44167 | 0.73982 | 0.999716 | 334 | 3 | -1.5804 |
| SLC40A1 | 10 | 309 | 0.3018 | 0.62439 | 0.954471 | 309 | 2 | 4.8449 | 8 | 0.0016576 | 0.010702 | 0.640774 | 8 | 8 | 4.8449 |
| ABL1 | 10 | 310 | 0.30193 | 0.62455 | 0.954471 | 310 | 5 | 0.58376 | 248 | 0.23722 | 0.53729 | 0.999716 | 248 | 5 | 0.58376 |
| CYP1A1 | 10 | 311 | 0.30274 | 0.62546 | 0.954471 | 311 | 4 | 2.2736 | 216 | 0.18868 | 0.46715 | 0.999716 | 216 | 6 | 2.2736 |
| PIR | 10 | 312 | 0.30423 | 0.62728 | 0.954471 | 312 | 2 | 2.8885 | 31 | 0.012929 | 0.065628 | 0.940476 | 31 | 7 | 2.8885 |
| HSPBAP1 | 10 | 313 | 0.3043 | 0.62734 | 0.954471 | 313 | 4 | 0.71033 | 260 | 0.26756 | 0.57869 | 0.999716 | 260 | 5 | 0.71033 |
| CYP4F8 | 10 | 314 | 0.30555 | 0.62881 | 0.954471 | 314 | 4 | 2.9498 | 48 | 0.021465 | 0.099448 | 0.966714 | 48 | 6 | 2.9498 |
| EVL | 10 | 315 | 0.30939 | 0.63301 | 0.954471 | 315 | 5 | -0.42812 | 222 | 0.2016 | 0.48684 | 0.999716 | 222 | 4 | -0.42812 |
| CYB5D1 | 10 | 316 | 0.30972 | 0.63349 | 0.954471 | 316 | 5 | -0.29031 | 306 | 0.38147 | 0.68743 | 0.999716 | 306 | 4 | -0.29031 |
| SLC22A17 | 10 | 317 | 0.31504 | 0.63984 | 0.954471 | 317 | 5 | 0.36934 | 243 | 0.23054 | 0.52805 | 0.999716 | 243 | 5 | 0.36934 |
| KAT2B | 10 | 318 | 0.31604 | 0.64095 | 0.954471 | 318 | 5 | 0.4609 | 35 | 0.014915 | 0.073869 | 0.940476 | 35 | 5 | 0.4609 |
| CYP11B2 | 10 | 319 | 0.31671 | 0.64169 | 0.954471 | 319 | 5 | -0.28266 | 87 | 0.053298 | 0.19789 | 0.999716 | 87 | 4 | -0.28266 |
| INPPL1 | 10 | 320 | 0.31854 | 0.64384 | 0.954471 | 320 | 5 | 0.47224 | 239 | 0.22215 | 0.51646 | 0.999716 | 239 | 5 | 0.47224 |
| TMLHE | 10 | 321 | 0.31884 | 0.6441 | 0.954471 | 321 | 6 | -1.1482 | 154 | 0.11574 | 0.34796 | 0.999716 | 154 | 4 | -1.1482 |
| CYB561D2 | 10 | 322 | 0.32016 | 0.64546 | 0.954471 | 322 | 5 | 0.22268 | 310 | 0.39152 | 0.69648 | 0.999716 | 310 | 4 | 0.22268 |
| CYP2W1 | 10 | 323 | 0.3218 | 0.64752 | 0.954471 | 323 | 6 | -0.71842 | 412 | 0.74606 | 0.91885 | 0.999716 | 412 | 4 | -0.71842 |
| CYP39A1 | 10 | 324 | 0.32284 | 0.6488 | 0.954471 | 324 | 4 | 1.1973 | 238 | 0.2158 | 0.5071 | 0.999716 | 238 | 5 | 1.1973 |
| CYP21A2 | 10 | 325 | 0.3233 | 0.64922 | 0.954471 | 325 | 5 | 0.54939 | 118 | 0.075348 | 0.25529 | 0.999716 | 118 | 5 | 0.54939 |
| EGLN3 | 10 | 326 | 0.32652 | 0.65306 | 0.954471 | 326 | 2 | 3.8727 | 14 | 0.0035877 | 0.021985 | 0.752211 | 14 | 8 | 3.8727 |
| ALKBH8 | 10 | 327 | 0.32907 | 0.65558 | 0.954471 | 327 | 3 | 2.4878 | 89 | 0.053573 | 0.19871 | 0.999716 | 89 | 7 | 2.4878 |
| CYB5A | 10 | 328 | 0.3314 | 0.65844 | 0.954471 | 328 | 6 | -1.3075 | 150 | 0.10959 | 0.33679 | 0.999716 | 150 | 4 | -1.3075 |
| TSHZ2 | 10 | 329 | 0.33263 | 0.65963 | 0.954471 | 329 | 6 | -1.1696 | 231 | 0.20881 | 0.49693 | 0.999716 | 231 | 4 | -1.1696 |
| FLVCR2 | 10 | 330 | 0.33643 | 0.66376 | 0.954471 | 330 | 4 | 1.8138 | 237 | 0.21521 | 0.5062 | 0.999716 | 237 | 6 | 1.8138 |
| ALKBH4 | 10 | 331 | 0.33855 | 0.66605 | 0.954471 | 331 | 4 | 3.0755 | 111 | 0.07133 | 0.2451 | 0.999716 | 111 | 6 | 3.0755 |
| PHF2 | 10 | 332 | 0.34001 | 0.66778 | 0.954471 | 332 | 4 | 3.0805 | 107 | 0.070131 | 0.24208 | 0.999716 | 107 | 6 | 3.0805 |
| TMPPE | 10 | 333 | 0.34002 | 0.66778 | 0.954471 | 333 | 6 | -1.2566 | 129 | 0.086824 | 0.28395 | 0.999716 | 129 | 4 | -1.2566 |
| CAT | 10 | 334 | 0.34093 | 0.66871 | 0.954471 | 334 | 5 | -0.8645 | 220 | 0.19957 | 0.48398 | 0.999716 | 220 | 3 | -0.8645 |
| CYP2F1 | 10 | 335 | 0.34167 | 0.66952 | 0.954471 | 335 | 6 | -1.2437 | 78 | 0.043348 | 0.17019 | 0.999716 | 78 | 3 | -1.2437 |
| APBB1 | 10 | 336 | 0.34856 | 0.67685 | 0.961358 | 336 | 4 | 1.3237 | 331 | 0.43404 | 0.73329 | 0.999716 | 331 | 5 | 1.3237 |
| SC5D | 10 | 337 | 0.35077 | 0.67908 | 0.961358 | 337 | 5 | -0.77628 | 273 | 0.29159 | 0.60432 | 0.999716 | 273 | 4 | -0.77628 |
| FRAS1 | 10 | 338 | 0.35292 | 0.68178 | 0.961358 | 338 | 5 | 0.26457 | 277 | 0.30034 | 0.61317 | 0.999716 | 277 | 5 | 0.26457 |
| XDH | 10 | 339 | 0.35509 | 0.6839 | 0.961358 | 339 | 5 | 0.73734 | 197 | 0.161 | 0.42441 | 0.999716 | 197 | 5 | 0.73734 |
| CYP19A1 | 10 | 340 | 0.35808 | 0.68694 | 0.961358 | 340 | 5 | 1.0401 | 116 | 0.074371 | 0.25297 | 0.999716 | 116 | 5 | 1.0401 |
| LRP1 | 10 | 341 | 0.36211 | 0.69099 | 0.961358 | 341 | 6 | -1.0546 | 145 | 0.10167 | 0.31895 | 0.999716 | 145 | 4 | -1.0546 |
| VWF | 10 | 342 | 0.36497 | 0.69429 | 0.961358 | 342 | 5 | -0.05284 | 309 | 0.39148 | 0.69644 | 0.999716 | 309 | 4 | -0.05284 |
| CYBB | 10 | 343 | 0.36708 | 0.69636 | 0.961358 | 343 | 4 | 2.6017 | 68 | 0.037292 | 0.1529 | 0.999716 | 68 | 6 | 2.6017 |
| MOXD1 | 10 | 344 | 0.36718 | 0.69645 | 0.961358 | 344 | 6 | -0.69481 | 15 | 0.0043266 | 0.025654 | 0.801339 | 15 | 3 | -0.69481 |
| ACO1 | 10 | 345 | 0.37026 | 0.69855 | 0.961358 | 345 | 4 | 2.0642 | 156 | 0.11783 | 0.35142 | 0.999716 | 156 | 5 | 2.0642 |
| CLSTN2 | 10 | 346 | 0.37468 | 0.70202 | 0.961358 | 346 | 3 | 3.3041 | 70 | 0.039441 | 0.15894 | 0.999716 | 70 | 7 | 3.3041 |
| CYP51A1 | 10 | 347 | 0.3749 | 0.70215 | 0.961358 | 347 | 4 | 1.7009 | 38 | 0.016494 | 0.080073 | 0.940476 | 38 | 5 | 1.7009 |
| SLC39A10 | 10 | 348 | 0.37811 | 0.70444 | 0.961358 | 348 | 5 | -0.72917 | 295 | 0.33906 | 0.64991 | 0.999716 | 295 | 4 | -0.72917 |
| JAK2 | 10 | 349 | 0.38023 | 0.70606 | 0.961358 | 349 | 4 | 1.9819 | 250 | 0.24008 | 0.54129 | 0.999716 | 250 | 6 | 1.9819 |
| APBA1 | 10 | 350 | 0.38321 | 0.70806 | 0.961358 | 350 | 5 | -0.2971 | 330 | 0.43133 | 0.73092 | 0.999716 | 330 | 4 | -0.2971 |
| RAB6B | 10 | 351 | 0.38371 | 0.70847 | 0.961358 | 351 | 4 | 1.2668 | 142 | 0.099836 | 0.31478 | 0.999716 | 142 | 5 | 1.2668 |
| PTGIS | 10 | 352 | 0.39285 | 0.71538 | 0.962856 | 352 | 4 | 3.5463 | 88 | 0.053389 | 0.19819 | 0.999716 | 88 | 6 | 3.5463 |
| SLC25A37 | 10 | 353 | 0.39351 | 0.71593 | 0.962856 | 353 | 5 | 0.82682 | 175 | 0.1396 | 0.38935 | 0.999716 | 175 | 5 | 0.82682 |
| KDM3A | 10 | 354 | 0.3955 | 0.71751 | 0.962856 | 354 | 5 | 1.1698 | 157 | 0.11805 | 0.35172 | 0.999716 | 157 | 5 | 1.1698 |
| CYP4A11 | 10 | 355 | 0.39814 | 0.71931 | 0.962856 | 355 | 2 | 3.8877 | 43 | 0.018628 | 0.088036 | 0.940476 | 43 | 8 | 3.8877 |
| CH25H | 10 | 356 | 0.40015 | 0.72095 | 0.962856 | 356 | 5 | 0.23888 | 298 | 0.34819 | 0.65825 | 0.999716 | 298 | 5 | 0.23888 |
| CYP3A43 | 10 | 357 | 0.40414 | 0.72401 | 0.962856 | 357 | 5 | -0.29586 | 346 | 0.46958 | 0.76344 | 0.999716 | 346 | 4 | -0.29586 |
| CYP4A22 | 10 | 358 | 0.40422 | 0.72405 | 0.962856 | 358 | 4 | 3.2393 | 104 | 0.069375 | 0.24021 | 0.999716 | 104 | 6 | 3.2393 |
| CYP17A1 | 10 | 359 | 0.41011 | 0.72837 | 0.962856 | 359 | 5 | 0.27675 | 29 | 0.011224 | 0.05852 | 0.940476 | 29 | 5 | 0.27675 |
| SLC39A5 | 10 | 360 | 0.41058 | 0.72862 | 0.962856 | 360 | 3 | 3.9307 | 54 | 0.026509 | 0.11806 | 0.999716 | 54 | 7 | 3.9307 |
| GALT | 10 | 361 | 0.41197 | 0.72968 | 0.962856 | 361 | 3 | 3.5244 | 23 | 0.0078759 | 0.043021 | 0.874504 | 23 | 7 | 3.5244 |
| SLC48A1 | 10 | 362 | 0.41809 | 0.73408 | 0.966006 | 362 | 4 | 1.8364 | 192 | 0.15671 | 0.41752 | 0.999716 | 192 | 5 | 1.8364 |
| ABCG2 | 10 | 363 | 0.42609 | 0.73988 | 0.969078 | 363 | 4 | 2.0949 | 193 | 0.15731 | 0.41841 | 0.999716 | 193 | 6 | 2.0949 |
| FRRS1 | 10 | 364 | 0.42945 | 0.7425 | 0.969078 | 364 | 5 | -0.10491 | 317 | 0.4047 | 0.70814 | 0.999716 | 317 | 5 | -0.10491 |
| HBQ1 | 10 | 365 | 0.43087 | 0.74362 | 0.969078 | 365 | 5 | -0.38789 | 177 | 0.14191 | 0.39333 | 0.999716 | 177 | 4 | -0.38789 |
| HMOX1 | 10 | 366 | 0.43359 | 0.74562 | 0.969078 | 366 | 5 | -0.25473 | 211 | 0.18362 | 0.45908 | 0.999716 | 211 | 4 | -0.25473 |
| ABCB6 | 10 | 367 | 0.44077 | 0.75101 | 0.969078 | 367 | 5 | -0.36267 | 92 | 0.055396 | 0.20409 | 0.999716 | 92 | 4 | -0.36267 |
| PGRMC2 | 10 | 368 | 0.44212 | 0.75184 | 0.969078 | 368 | 5 | -0.60376 | 399 | 0.68773 | 0.88966 | 0.999716 | 399 | 4 | -0.60376 |
| RPE65 | 10 | 369 | 0.4481 | 0.75624 | 0.969078 | 369 | 4 | 2.5246 | 187 | 0.15188 | 0.40945 | 0.999716 | 187 | 6 | 2.5246 |
| CA9 | 10 | 370 | 0.44882 | 0.75672 | 0.969078 | 370 | 5 | -0.4791 | 393 | 0.65967 | 0.87482 | 0.999716 | 393 | 4 | -0.4791 |
| HR | 10 | 371 | 0.45987 | 0.76466 | 0.969078 | 371 | 4 | 2.4965 | 190 | 0.15489 | 0.41436 | 0.999716 | 190 | 6 | 2.4965 |
| DPH2 | 10 | 372 | 0.4607 | 0.76533 | 0.969078 | 372 | 4 | 1.3438 | 332 | 0.43718 | 0.73605 | 0.999716 | 332 | 5 | 1.3438 |
| NFU1 | 10 | 373 | 0.46354 | 0.76736 | 0.969078 | 373 | 4 | 2.6263 | 159 | 0.11988 | 0.35509 | 0.999716 | 159 | 6 | 2.6263 |
| HBB | 10 | 374 | 0.46678 | 0.77018 | 0.969078 | 374 | 4 | 2.2696 | 160 | 0.12038 | 0.35577 | 0.999716 | 160 | 6 | 2.2696 |
| KDM5C | 10 | 375 | 0.46685 | 0.77022 | 0.969078 | 375 | 4 | 1.8337 | 240 | 0.22435 | 0.51963 | 0.999716 | 240 | 6 | 1.8337 |
| HBE1 | 10 | 376 | 0.46994 | 0.77254 | 0.969078 | 376 | 4 | 1.5167 | 318 | 0.40503 | 0.70849 | 0.999716 | 318 | 5 | 1.5167 |
| DEGS2 | 10 | 377 | 0.47094 | 0.77301 | 0.969078 | 377 | 5 | -0.10551 | 357 | 0.49395 | 0.78242 | 0.999716 | 357 | 5 | -0.10551 |
| DNAJC24 | 10 | 378 | 0.47271 | 0.77436 | 0.969078 | 378 | 4 | 1.5354 | 122 | 0.079667 | 0.26621 | 0.999716 | 122 | 5 | 1.5354 |
| TPH2 | 10 | 379 | 0.47677 | 0.77702 | 0.969078 | 379 | 4 | 2.6489 | 56 | 0.02721 | 0.12096 | 0.999716 | 56 | 5 | 2.6489 |
| MOCS1 | 10 | 380 | 0.47861 | 0.77804 | 0.969078 | 380 | 5 | -0.0491 | 354 | 0.48944 | 0.77874 | 0.999716 | 354 | 5 | -0.0491 |
| CYP4B1 | 10 | 381 | 0.47865 | 0.77807 | 0.969078 | 381 | 5 | 0.15541 | 300 | 0.35861 | 0.66726 | 0.999716 | 300 | 5 | 0.15541 |
| CYP2U1 | 10 | 382 | 0.47906 | 0.77841 | 0.969078 | 382 | 5 | -0.88747 | 349 | 0.47252 | 0.76563 | 0.999716 | 349 | 4 | -0.88747 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KDM3B | 10 | 383 | 0.48139 | 0.77977 | 0.969078 | 383 | 4 | 1.7024 | 133 | 0.092199 | 0.29631 | 0.999716 | 133 | 6 | 1.7024 |
| FRRS1L | 10 | 384 | 0.48363 | 0.78136 | 0.969078 | 384 | 5 | 0.29274 | 207 | 0.1732 | 0.44345 | 0.999716 | 207 | 4 | 0.29274 |
| LPO | 10 | 385 | 0.48617 | 0.7833 | 0.969078 | 385 | 3 | 2.3593 | 81 | 0.047854 | 0.18304 | 0.999716 | 81 | 7 | 2.3593 |
| CP | 10 | 386 | 0.48872 | 0.78497 | 0.969078 | 386 | 4 | 0.91473 | 390 | 0.63824 | 0.86395 | 0.999716 | 390 | 4 | 0.91473 |
| TPO | 10 | 387 | 0.4928 | 0.78812 | 0.970455 | 387 | 5 | 0.15228 | 282 | 0.31232 | 0.62484 | 0.999716 | 282 | 4 | 0.15228 |
| NUBPL | 10 | 388 | 0.49861 | 0.79166 | 0.972326 | 388 | 3 | 1.3127 | 266 | 0.27536 | 0.5886 | 0.999716 | 266 | 5 | 1.3127 |
| LYRM4 | 10 | 389 | 0.50686 | 0.79772 | 0.97531 | 389 | 4 | 0.17466 | 395 | 0.66422 | 0.87732 | 0.999716 | 395 | 4 | 0.17466 |
| HERC2 | 10 | 390 | 0.50733 | 0.79817 | 0.97531 | 390 | 4 | 0.27826 | 398 | 0.67903 | 0.88526 | 0.999716 | 398 | 4 | 0.27826 |
| HBG2 | 3 | 391 | 0.51292 | 0.65487 | 0.954471 | 391 | 1 | 1.794 | 305 | 0.38036 | 0.53055 | 0.999716 | 305 | 2 | 1.794 |
| AOX1 | 10 | 392 | 0.51807 | 0.80568 | 0.981988 | 392 | 4 | 2.8322 | 130 | 0.091904 | 0.29563 | 0.999716 | 130 | 6 | 2.8322 |
| DPYD | 10 | 393 | 0.52645 | 0.81112 | 0.984772 | 393 | 5 | -0.5963 | 379 | 0.59476 | 0.84164 | 0.999716 | 379 | 3 | -0.5963 |
| CDK5RAP | 10 | 394 | 0.52949 | 0.81319 | 0.984772 | 394 | 5 | -0.30588 | 232 | 0.21002 | 0.49865 | 0.999716 | 232 | 4 | -0.30588 |
| KDM4E | 10 | 395 | 0.53263 | 0.81532 | 0.984772 | 395 | 5 | 0.39346 | 25 | 0.0094962 | 0.050616 | 0.940476 | 25 | 5 | 0.39346 |
| APLP1 | 10 | 396 | 0.54402 | 0.82276 | 0.984772 | 396 | 4 | 3.0767 | 120 | 0.078685 | 0.26377 | 0.999716 | 120 | 6 | 3.0767 |
| KDM5A | 10 | 397 | 0.54423 | 0.8229 | 0.984772 | 397 | 4 | 2.0223 | 26 | 0.0097641 | 0.052038 | 0.940476 | 26 | 5 | 2.0223 |
| CIAPIN1 | 10 | 398 | 0.54653 | 0.82434 | 0.984772 | 398 | 4 | 5.0667 | 4 | 0.00077063 | 0.005363 | 0.509921 | 4 | 6 | 5.0667 |
| CYP2A7 | 10 | 399 | 0.54907 | 0.82592 | 0.984772 | 399 | 2 | 4.426 | 3 | 0.00052426 | 0.003683 | 0.509921 | 3 | 8 | 4.426 |
| NDUFV2 | 10 | 400 | 0.55272 | 0.82857 | 0.984772 | 400 | 5 | 0.3104 | 333 | 0.43808 | 0.73692 | 0.999716 | 333 | 5 | 0.3104 |
| CYP2A6 | 10 | 401 | 0.55359 | 0.8292 | 0.984772 | 401 | 4 | 1.8485 | 223 | 0.20162 | 0.48688 | 0.999716 | 223 | 5 | 1.8485 |
| GLRX3 | 10 | 402 | 0.55497 | 0.83016 | 0.984772 | 402 | 2 | 3.2986 | 53 | 0.024642 | 0.11139 | 0.999716 | 53 | 8 | 3.2986 |
| CYP3A4 | 10 | 403 | 0.55584 | 0.83074 | 0.984772 | 403 | 5 | 0.37266 | 326 | 0.42464 | 0.72512 | 0.999716 | 326 | 5 | 0.37266 |
| IREB2 | 10 | 404 | 0.56409 | 0.83607 | 0.984772 | 404 | 3 | 3.1569 | 55 | 0.026554 | 0.1182 | 0.999716 | 55 | 7 | 3.1569 |
| HBD | 10 | 405 | 0.56499 | 0.83661 | 0.984772 | 405 | 4 | 1.656 | 191 | 0.15528 | 0.41515 | 0.999716 | 191 | 5 | 1.656 |
| HEBP1 | 10 | 406 | 0.57142 | 0.84115 | 0.984772 | 406 | 4 | 1.5108 | 245 | 0.23369 | 0.53243 | 0.999716 | 245 | 5 | 1.5108 |
| TDO2 | 10 | 407 | 0.57304 | 0.8421 | 0.984772 | 407 | 5 | 1.0607 | 267 | 0.27653 | 0.58998 | 0.999716 | 267 | 5 | 1.0607 |
| CYP27A1 | 10 | 408 | 0.57486 | 0.84335 | 0.984772 | 408 | 5 | 0.33244 | 344 | 0.46193 | 0.75658 | 0.999716 | 344 | 5 | 0.33244 |
| CYP2C8 | 10 | 409 | 0.57545 | 0.84373 | 0.984772 | 409 | 4 | 1.2414 | 166 | 0.12944 | 0.37269 | 0.999716 | 166 | 5 | 1.2414 |
| SLC39A9 | 10 | 410 | 0.57908 | 0.84594 | 0.984772 | 410 | 5 | 0.072201 | 80 | 0.047585 | 0.18226 | 0.999716 | 80 | 4 | 0.072201 |
| TSHZ1 | 10 | 411 | 0.58058 | 0.84703 | 0.984772 | 411 | 5 | 0.70853 | 227 | 0.20414 | 0.49065 | 0.999716 | 227 | 5 | 0.70853 |
| PARN | 10 | 412 | 0.59044 | 0.85361 | 0.987209 | 412 | 3 | 2.116 | 100 | 0.066499 | 0.2332 | 0.999716 | 100 | 7 | 2.116 |
| STC2 | 10 | 413 | 0.59585 | 0.85711 | 0.987209 | 413 | 3 | 3.8167 | 62 | 0.030155 | 0.13198 | 0.999716 | 62 | 7 | 3.8167 |
| NOS1 | 10 | 414 | 0.59695 | 0.8577 | 0.987209 | 414 | 3 | 3.4541 | 114 | 0.072923 | 0.24945 | 0.999716 | 114 | 6 | 3.4541 |
| STEAP1B | 10 | 415 | 0.5975 | 0.85809 | 0.987209 | 415 | 4 | 2.7904 | 105 | 0.069803 | 0.24124 | 0.999716 | 105 | 6 | 2.7904 |
| NTHL1 | 10 | 416 | 0.60119 | 0.86063 | 0.987209 | 416 | 3 | 3.1238 | 44 | 0.018742 | 0.088543 | 0.940476 | 44 | 7 | 3.1238 |
| PTGS2 | 10 | 417 | 0.60721 | 0.86427 | 0.987209 | 417 | 2 | 2.7656 | 42 | 0.018128 | 0.086117 | 0.940476 | 42 | 7 | 2.7656 |
| HBG1 | 3 | 418 | 0.60832 | 0.69802 | 0.961358 | 418 | 1 | 2.5216 | 204 | 0.17056 | 0.29825 | 0.999716 | 204 | 2 | 2.5216 |
| LYZ | 10 | 419 | 0.61017 | 0.86571 | 0.987209 | 419 | 4 | 3.1482 | 96 | 0.060642 | 0.2178 | 0.999716 | 96 | 6 | 3.1482 |
| CYP2R1 | 10 | 420 | 0.6119 | 0.86672 | 0.987209 | 420 | 5 | 0.28869 | 259 | 0.26585 | 0.57638 | 0.999716 | 259 | 4 | 0.28869 |
| LCN2 | 10 | 421 | 0.61628 | 0.86869 | 0.987209 | 421 | 4 | 1.4587 | 84 | 0.048334 | 0.18439 | 0.999716 | 84 | 5 | 1.4587 |
| SLC39A6 | 10 | 422 | 0.61879 | 0.86973 | 0.987209 | 422 | 4 | 2.271 | 189 | 0.15479 | 0.41423 | 0.999716 | 189 | 6 | 2.271 |
| RORB | 10 | 423 | 0.62979 | 0.87432 | 0.987229 | 423 | 2 | 4.0017 | 12 | 0.0035481 | 0.021816 | 0.752211 | 12 | 8 | 4.0017 |
| NOX4 | 10 | 424 | 0.63332 | 0.87596 | 0.987229 | 424 | 3 | 3.3361 | 59 | 0.028318 | 0.12506 | 0.999716 | 59 | 7 | 3.3361 |
| DLG3 | 10 | 425 | 0.63542 | 0.87689 | 0.987229 | 425 | 4 | 0.71854 | 108 | 0.070201 | 0.24221 | 0.999716 | 108 | 5 | 0.71854 |
| RPE | 10 | 426 | 0.63974 | 0.87862 | 0.987229 | 426 | 4 | 1.9541 | 253 | 0.24355 | 0.54621 | 0.999716 | 253 | 6 | 1.9541 |
| OGFOD3 | 10 | 427 | 0.64577 | 0.88091 | 0.987229 | 427 | 4 | 1.5577 | 276 | 0.29381 | 0.6067 | 0.999716 | 276 | 5 | 1.5577 |
| TYW1 | 10 | 428 | 0.65175 | 0.88327 | 0.987229 | 428 | 4 | 2.0242 | 95 | 0.059883 | 0.21587 | 0.999716 | 95 | 6 | 2.0242 |
| CYP4F11 | 10 | 429 | 0.65387 | 0.88418 | 0.987229 | 429 | 4 | 2.3263 | 128 | 0.086222 | 0.28244 | 0.999716 | 128 | 5 | 2.3263 |
| UBE2D1 | 10 | 430 | 0.66008 | 0.88683 | 0.98789 | 430 | 4 | 1.2998 | 307 | 0.38556 | 0.69117 | 0.999716 | 307 | 5 | 1.2998 |
| HEPHL1 | 10 | 431 | 0.6716 | 0.89173 | 0.99035 | 431 | 4 | 1.6124 | 304 | 0.37943 | 0.68578 | 0.999716 | 304 | 5 | 1.6124 |
| RSAD2 | 10 | 432 | 0.67982 | 0.8953 | 0.99035 | 432 | 3 | 2.0936 | 230 | 0.20693 | 0.49438 | 0.999716 | 230 | 6 | 2.0936 |
| PLOD3 | 10 | 433 | 0.68213 | 0.89606 | 0.99035 | 433 | 4 | 2.6563 | 188 | 0.15406 | 0.41313 | 0.999716 | 188 | 6 | 2.6563 |
| RASD1 | 10 | 434 | 0.68493 | 0.89731 | 0.99035 | 434 | 4 | 1.3307 | 268 | 0.27665 | 0.59008 | 0.999716 | 268 | 6 | 1.3307 |
| EML6 | 10 | 435 | 0.69249 | 0.90033 | 0.991075 | 435 | 4 | 2.8157 | 136 | 0.0968 | 0.30742 | 0.999716 | 136 | 6 | 2.8157 |
| STEAP4 | 10 | 436 | 0.70312 | 0.90453 | 0.991075 | 436 | 2 | 2.6334 | 194 | 0.15759 | 0.41889 | 0.999716 | 194 | 6 | 2.6334 |
| IDO2 | 9 | 437 | 0.711 | 0.90315 | 0.991075 | 437 | 2 | 0.93804 | 421 | 0.77729 | 0.91823 | 0.999716 | 421 | 2 | 0.93804 |
| ALOX15 | 10 | 438 | 0.71234 | 0.90831 | 0.991075 | 438 | 3 | 3.9014 | 64 | 0.031811 | 0.1372 | 0.999716 | 64 | 7 | 3.9014 |
| CYP7B1 | 10 | 439 | 0.71387 | 0.90889 | 0.991075 | 439 | 4 | 0.7215 | 361 | 0.51197 | 0.79688 | 0.999716 | 361 | 5 | 0.7215 |
| SCD5 | 10 | 440 | 0.72082 | 0.91186 | 0.991075 | 440 | 3 | 2.1932 | 58 | 0.028245 | 0.12475 | 0.999716 | 58 | 6 | 2.1932 |
| PPP3CC | 10 | 441 | 0.7223 | 0.91245 | 0.991075 | 441 | 3 | 2.6342 | 30 | 0.011984 | 0.06179 | 0.940476 | 30 | 6 | 2.6342 |
| CDKAL1 | 10 | 442 | 0.74066 | 0.92004 | 0.993898 | 442 | 4 | 1.8734 | 169 | 0.13356 | 0.37946 | 0.999716 | 169 | 6 | 1.8734 |
| ALKBH3 | 10 | 443 | 0.74998 | 0.92404 | 0.993898 | 443 | 3 | 3.8741 | 66 | 0.035194 | 0.14709 | 0.999716 | 66 | 7 | 3.8741 |
| CYP4F3 | 10 | 444 | 0.7507 | 0.9244 | 0.993898 | 444 | 4 | 1.2225 | 327 | 0.42598 | 0.72626 | 0.999716 | 327 | 5 | 1.2225 |
| ALOXE3 | 10 | 445 | 0.75197 | 0.92491 | 0.993898 | 445 | 4 | 0.92337 | 406 | 0.72295 | 0.90742 | 0.999716 | 406 | 4 | 0.92337 |
| CYB5R3 | 10 | 446 | 0.75345 | 0.92542 | 0.993898 | 446 | 2 | 2.6266 | 5 | 0.00086666 | 0.00596 | 0.509921 | 5 | 8 | 2.6266 |
| RRM2B | 10 | 447 | 0.7656 | 0.93036 | 0.994903 | 447 | 4 | 2.9125 | 165 | 0.12843 | 0.37074 | 0.999716 | 165 | 6 | 2.9125 |
| CYBA | 10 | 448 | 0.76588 | 0.93051 | 0.994903 | 448 | 3 | 2.7725 | 50 | 0.021835 | 0.10091 | 0.966714 | 50 | 6 | 2.7725 |
| KDM4D | 10 | 449 | 0.77197 | 0.93287 | 0.99518 | 449 | 3 | 3.1454 | 46 | 0.019547 | 0.091943 | 0.940476 | 46 | 6 | 3.1454 |
| AFM | 10 | 450 | 0.78148 | 0.93715 | 0.99518 | 450 | 4 | 2.4301 | 168 | 0.13184 | 0.37663 | 0.999716 | 168 | 6 | 2.4301 |
| KDM5D | 10 | 451 | 0.78428 | 0.93823 | 0.99518 | 451 | 3 | 1.3691 | 199 | 0.16387 | 0.4289 | 0.999716 | 199 | 5 | 1.3691 |
| CYP1A2 | 10 | 452 | 0.78677 | 0.93908 | 0.99518 | 452 | 3 | 2.6878 | 76 | 0.041456 | 0.16441 | 0.999716 | 76 | 7 | 2.6878 |
| AMBP | 10 | 453 | 0.79568 | 0.94245 | 0.996061 | 453 | 4 | 3.0655 | 119 | 0.077485 | 0.26084 | 0.999716 | 119 | 6 | 3.0655 |
| CYP2A13 | 10 | 454 | 0.79966 | 0.94407 | 0.996061 | 454 | 3 | 5.0338 | 7 | 0.0013699 | 0.008922 | 0.610544 | 7 | 7 | 5.0338 |
| EPX | 10 | 455 | 0.81502 | 0.95017 | 0.997234 | 455 | 4 | 1.1897 | 172 | 0.13635 | 0.38394 | 0.999716 | 172 | 5 | 1.1897 |
| RFESD | 10 | 456 | 0.82538 | 0.95394 | 0.997234 | 456 | 1 | 4.2044 | 16 | 0.0045182 | 0.026767 | 0.801339 | 16 | 8 | 4.2044 |
| PXDN | 10 | 457 | 0.82708 | 0.95431 | 0.997234 | 457 | 2 | 2.3202 | 206 | 0.1723 | 0.44207 | 0.999716 | 206 | 6 | 2.3202 |
| NGB | 10 | 458 | 0.84226 | 0.95814 | 0.997234 | 458 | 2 | 3.8 | 37 | 0.016463 | 0.079923 | 0.940476 | 37 | 8 | 3.8 |
| AGMO | 10 | 459 | 0.84617 | 0.959 | 0.997234 | 459 | 2 | 3.125 | 125 | 0.08115 | 0.2698 | 0.999716 | 125 | 7 | 3.125 |
| NIPAL1 | 10 | 460 | 0.86441 | 0.96342 | 0.997234 | 460 | 2 | 2.0577 | 137 | 0.098094 | 0.31053 | 0.999716 | 137 | 7 | 2.0577 |
| NOX5 | 10 | 461 | 0.86558 | 0.9637 | 0.997234 | 461 | 3 | 2.3931 | 71 | 0.040094 | 0.16081 | 0.999716 | 71 | 7 | 2.3931 |
| STEAP2 | 10 | 462 | 0.86654 | 0.96397 | 0.997234 | 462 | 3 | 2.5126 | 79 | 0.044154 | 0.1724 | 0.999716 | 79 | 7 | 2.5126 |
| HPX | 10 | 463 | 0.87087 | 0.96517 | 0.997234 | 463 | 3 | 2.3224 | 121 | 0.078832 | 0.26424 | 0.999716 | 121 | 7 | 2.3224 |
| SLC39A4 | 10 | 464 | 0.87401 | 0.96601 | 0.997234 | 464 | 3 | 1.7978 | 234 | 0.21288 | 0.5027 | 0.999716 | 234 | 6 | 1.7978 |
| HIF1A | 10 | 465 | 0.8855 | 0.96926 | 0.998033 | 465 | 3 | 2.8399 | 90 | 0.05421 | 0.20069 | 0.999716 | 90 | 7 | 2.8399 |
| FTHL17 | 10 | 466 | 0.89265 | 0.97095 | 0.998033 | 466 | 3 | 2.231 | 143 | 0.10007 | 0.31525 | 0.999716 | 143 | 7 | 2.231 |
| BLVRB | 10 | 467 | 0.91191 | 0.97648 | 0.999059 | 467 | 3 | 3.462 | 83 | 0.04817 | 0.18381 | 0.999716 | 83 | 7 | 3.462 |
| DEGS1 | 10 | 468 | 0.91331 | 0.97687 | 0.999059 | 468 | 3 | 1.5256 | 316 | 0.40325 | 0.70701 | 0.999716 | 316 | 5 | 1.5256 |
| KDM6A | 10 | 469 | 0.9223 | 0.97923 | 0.999059 | 469 | 3 | 2.5853 | 163 | 0.12331 | 0.36148 | 0.999716 | 163 | 6 | 2.5853 |
| PTGS1 | 10 | 470 | 0.92714 | 0.9808 | 0.999059 | 470 | 3 | 1.7841 | 85 | 0.051325 | 0.19269 | 0.999716 | 85 | 6 | 1.7841 |
| CYP2C19 | 10 | 471 | 0.943 | 0.98562 | 0.999059 | 471 | 1 | 2.4478 | 45 | 0.01918 | 0.090342 | 0.940476 | 45 | 8 | 2.4478 |
| ATOX1 | 10 | 472 | 0.94507 | 0.98596 | 0.999059 | 472 | 2 | 3.5111 | 36 | 0.015172 | 0.074754 | 0.940476 | 36 | 6 | 3.5111 |
| NIPA1 | 10 | 473 | 0.94925 | 0.98654 | 0.999059 | 473 | 2 | 4.3892 | 21 | 0.0075022 | 0.041281 | 0.874504 | 21 | 7 | 4.3892 |
| RORA | 10 | 474 | 0.97981 | 0.99331 | 0.999896 | 474 | 2 | 1.5644 | 60 | 0.029903 | 0.13092 | 0.999716 | 60 | 8 | 1.5644 |
| P4HA1 | 10 | 475 | 0.99248 | 0.99679 | 0.999896 | 475 | 1 | 2.2084 | 32 | 0.014116 | 0.07042 | 0.940476 | 32 | 8 | 2.2084 |
| HEPH | 10 | 476 | 0.99642 | 0.99771 | 0.999896 | 476 | 1 | 4.4856 | 6 | 0.0009336 | 0.006387 | 0.509921 | 6 | 9 | 4.4856 |
| ALKBH2 | 10 | 477 | 0.99672 | 0.99779 | 0.999896 | 477 | 1 | 3.3535 | 51 | 0.024191 | 0.10966 | 0.999716 | 51 | 8 | 3.3535 |
| AFP | 10 | 478 | 0.99745 | 0.99804 | 0.999896 | 478 | 1 | 2.9152 | 52 | 0.024577 | 0.11113 | 0.999716 | 52 | 8 | 2.9152 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HFE | 10 | 479 | 0.99983 | 0.9999 | 0.999896 | 479 | 0 | 4.9538 | 2 | 0.00017106 | 0.001337 | 0.320238 | 2 | 10 | 4.9538 |

| Total dropped out sgRNAs |
|---|
| 2861 |

**Supplemental Table S5. GSEA analysis using MSigDB-HALLMARK of Mouse #1**

| id | num | neg\|score | neg\|rra | neg\|p-value | neg\|fdr | neg\|rank | neg\|goodgene | neg\|lfc | pos\|score | pos\|rra | pos\|p-value | pos\|fdr | pos\|rank | pos\|goodgene | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HALLMARK_OXIDATIVE_PHOSPHORYLATION | 200 | 0.539094 | 5.67E-05 | 0.001 | 0.0083333 | 6 | 17 | 0 | 0.177258 | 0.162013 | 0.541 | 0.567708 | 46 | 7 | 0 |
| HALLMARK_ESTROGEN_RESPONSE_EARLY | 200 | 0.639475 | 0.0043129 | 0.004 | 0.0285714 | 7 | 3 | 0 | 0.334425 | 0.016986 | 0.313 | 0.456579 | 32 | 1 | 0 |
| HALLMARK_FATTY_ACID_METABOLISM | 158 | 0.555583 | 0.0200083 | 0.015 | 0.09375 | 8 | 5 | 0 | 0.325355 | 0.325607 | 0.244 | 0.456579 | 24 | 3 | 0 |
| HALLMARK_DNA_REPAIR | 150 | 0.633398 | 0.0011436 | 0.019 | 0.095 | 9 | 4 | 0 | 0.217156 | 0 | 0.594 | 0.606122 | 49 | 0 | 0 |
| HALLMARK_P53_PATHWAY | 200 | 0.586972 | 0.0013658 | 0.019 | 0.095 | 10 | 1 | 0 | 0.269161 | 0.016986 | 0.412 | 0.47907 | 43 | 1 | 0 |
| HALLMARK_E2F_TARGETS | 200 | 0.692632 | 0.0029802 | 0.023 | 0.104545 | 11 | 4 | 0 | 0.376075 | 0 | 0.338 | 0.456579 | 35 | 0 | 0 |
| HALLMARK_PEROXISOME | 104 | 0.656561 | 0.097034 | 0.045 | 0.166667 | 12 | 2 | 0 | 0.543963 | 0.08146 | 0.128 | 0.32 | 20 | 1 | 0 |
| HALLMARK_ADIPOGENESIS | 200 | 0.54762 | 0.0163511 | 0.047 | 0.166667 | 13 | 4 | 0 | 0.346754 | 0.056229 | 0.268 | 0.456579 | 29 | 3 | 0 |
| HALLMARK_MITOTIC_SPINDLE | 199 | 0.676321 | 0.0030556 | 0.071 | 0.221875 | 16 | 1 | 0 | 0.418261 | 0 | 0.345 | 0.456579 | 37 | 0 | 0 |
| HALLMARK_MYC_TARGETS_V1 | 200 | 0.569151 | 0.0109408 | 0.082 | 0.233333 | 17 | 2 | 0 | 0.25026 | 0 | 0.545 | 0.567708 | 48 | 0 | 0 |
| HALLMARK_G2M_CHECKPOINT | 200 | 0.564208 | 0.0074085 | 0.084 | 0.233333 | 18 | 1 | 0 | 0.387903 | 0 | 0.266 | 0.456579 | 27 | 0 | 0 |
| HALLMARK_ALLOGRAFT_REJECTION | 200 | 0.478333 | 0.008045 | 0.091 | 0.239474 | 19 | 2 | 0 | 0.355769 | 0 | 0.246 | 0.456579 | 25 | 0 | 0 |

**Supplemental Table S6. GSEA analysis using MSigDB-HALLMARK of Mouse #2**

| id | num | neg\|score | neg\|rra | neg\|p-value | neg\|fdr | neg\|rank | neg\|goodgene | neg\|lfc | pos\|score | pos\|rra | pos\|p-value | pos\|fdr | pos\|rank | pos\|goodgene | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HALLMARK_OXIDATIVE_PHOSPHORYLATION | 200 | 0.541415 | 3.74E-05 | 0 | 0 | 6 | 13 | 0 | 0.102057 | 0.406635 | 0.809 | 0.809 | 50 | 3 | 0 |
| HALLMARK_ADIPOGENESIS | 200 | 0.647717 | 0.0156073 | 0.006 | 0.0428571 | 7 | 4 | 0 | 0.378872 | 0.072507 | 0.202 | 0.336667 | 30 | 3 | 0 |
| HALLMARK_TGF_BETA_SIGNALING | 54 | 0.863193 | 0.0098113 | 0.009 | 0.05625 | 8 | 1 | 0 | 0.615603 | 0.009136 | 0.176 | 0.319643 | 25 | 1 | 0 |
| HALLMARK_PI3K_AKT_MTOR_SIGNALING | 105 | 0.943515 | 0.0034028 | 0.013 | 0.0722222 | 9 | 1 | 0 | 0.518319 | 0 | 0.368 | 0.44878 | 41 | 0 | 0 |
| HALLMARK_E2F_TARGETS | 200 | 0.701747 | 0.0062018 | 0.026 | 0.127273 | 10 | 3 | 0 | 0.278196 | 0 | 0.497 | 0.542391 | 45 | 0 | 0 |
| HALLMARK_APICAL_SURFACE | 44 | 0.878661 | 0.0151085 | 0.028 | 0.127273 | 11 | 1 | 0 | 0.561916 | 0 | 0.317 | 0.428947 | 36 | 0 | 0 |
| HALLMARK_ANGIOGENESIS | 36 | 0.878661 | 0.0151085 | 0.049 | 0.204167 | 12 | 1 | 0 | 0.561916 | 0 | 0.326 | 0.428947 | 38 | 0 | 0 |
| HALLMARK_DNA_REPAIR | 150 | 0.570584 | 0.004672 | 0.056 | 0.21 | 13 | 4 | 0 | 0.478329 | 0.052535 | 0.137 | 0.319643 | 18 | 2 | 0 |
| HALLMARK_UV_RESPONSE_DN | 144 | 0.725131 | 0.108031 | 0.06 | 0.21 | 14 | 1 | 0 | 0.637317 | 0.048461 | 0.143 | 0.319643 | 20 | 2 | 0 |
| HALLMARK_MITOTIC_SPINDLE | 199 | 0.675672 | 0.0273365 | 0.063 | 0.21 | 15 | 1 | 0 | 0.435688 | 0 | 0.316 | 0.428947 | 34 | 0 | 0 |
| HALLMARK_INTERFERON_ALPHA_RESPONSE | 97 | 0.737945 | 0.018522 | 0.071 | 0.221875 | 16 | 2 | 0 | 0.454202 | 0 | 0.347 | 0.444872 | 39 | 0 | 0 |
| HALLMARK_FATTY_ACID_METABOLISM | 158 | 0.420372 | 0.0876958 | 0.08 | 0.230556 | 17 | 3 | 0 | 0.135914 | 0 | 0.723 | 0.737755 | 49 | 0 | 0 |
| HALLMARK_BILE_ACID_METABOLISM | 112 | 0.408265 | 0.0929134 | 0.083 | 0.230556 | 18 | 4 | 0 | 0.443297 | 0.014038 | 0.05 | 0.208333 | 12 | 5 | 0 |

**Supplemental Table S7. GSEA analysis using MSigDB-HALLMARK of Mouse #3**

| id | num | neg\|score | neg\|rra | neg\|p-value | neg\|fdr | neg\|rank | neg\|goodgene | neg\|lfc | pos\|score | pos\|rra | pos\|p-value | pos\|fdr | pos\|rank | pos\|goodgene | pos\|lfc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HALLMARK_OXIDATIVE_PHOSPHORYLATION | 200 | 0.565437 | 4.43E-05 | 0 | 0 | 6 | 17 | 0 | 0.0972584 | 0.041327 | 0.818 | 0.818 | 50 | 1 | 0 |
| HALLMARK_MYC_TARGETS_V1 | 200 | 0.74599 | 0.0018538 | 0.001 | 0.0071429 | 7 | 3 | 0 | 0.385931 | 0.010232 | 0.266 | 0.369444 | 36 | 1 | 0 |
| HALLMARK_MITOTIC_SPINDLE | 199 | 0.79602 | 2.60E-05 | 0.011 | 0.0611111 | 8 | 1 | 0 | 0.376959 | 0 | 0.378 | 0.45 | 42 | 0 | 0 |
| HALLMARK_ADIPOGENESIS | 200 | 0.600256 | 0.0063373 | 0.011 | 0.0611111 | 9 | 5 | 0 | 0.301203 | 0.093205 | 0.353 | 0.430488 | 40 | 1 | 0 |
| HALLMARK_DNA_REPAIR | 150 | 0.670378 | 0.0003512 | 0.016 | 0.0772727 | 10 | 3 | 0 | 0.248066 | 0 | 0.502 | 0.534043 | 47 | 0 | 0 |
| HALLMARK_UV_RESPONSE_UP | 158 | 0.6416 | 0.0013967 | 0.017 | 0.0772727 | 11 | 3 | 0 | 0.452567 | 0.138902 | 0.149 | 0.275926 | 27 | 1 | 0 |
| HALLMARK_P53_PATHWAY | 200 | 0.588463 | 0.0355271 | 0.02 | 0.0833333 | 12 | 3 | 0 | 0.237063 | 0 | 0.492 | 0.534043 | 46 | 0 | 0 |
| HALLMARK_G2M_CHECKPOINT | 200 | 0.657092 | 0.0001264 | 0.03 | 0.115385 | 13 | 2 | 0 | 0.237179 | 0 | 0.593 | 0.613265 | 48 | 0 | 0 |
| HALLMARK_PI3K_AKT_MTOR_SIGNALING | 105 | 0.874477 | 0.0161502 | 0.033 | 0.117857 | 14 | 1 | 0 | 0.636243 | 0 | 0.241 | 0.365152 | 33 | 0 | 0 |
| HALLMARK_E2F_TARGETS | 200 | 0.653025 | 0.0517197 | 0.044 | 0.1375 | 16 | 2 | 0 | 0.285799 | 0 | 0.465 | 0.516667 | 45 | 0 | 0 |
| HALLMARK_MTORC1_SIGNALING | 200 | 0.477441 | 0.0158046 | 0.057 | 0.140476 | 18 | 5 | 0 | 0.440104 | 0.001532 | 0.095 | 0.25 | 19 | 4 | 0 |
| HALLMARK_TGF_BETA_SIGNALING | 54 | 0.750126 | 0.0443457 | 0.058 | 0.140476 | 19 | 1 | 0 | 0.571938 | 0 | 0.201 | 0.324194 | 31 | 0 | 0 |
| HALLMARK_TNFA_SIGNALING_VIA_NFKB | 200 | 0.59072 | 0.0278453 | 0.058 | 0.140476 | 20 | 2 | 0 | 0.520694 | 0.090564 | 0.125 | 0.265385 | 23 | 1 | 0 |
| HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY | 49 | 0.4386 | 0.0554797 | 0.086 | 0.195455 | 22 | 3 | 0 | 0.396635 | 0.060284 | 0.136 | 0.265385 | 25 | 6 | 0 |
| HALLMARK_PEROXISOME | 104 | 0.605243 | 0.0434362 | 0.091 | 0.197826 | 23 | 1 | 0 | 0.432943 | 0 | 0.257 | 0.367143 | 35 | 0 | 0 |
| HALLMARK_MYOGENESIS | 200 | 0.487656 | 0.014141 | 0.108 | 0.225 | 24 | 3 | 0 | 0.537207 | 0.021951 | 0.067 | 0.223333 | 15 | 4 | 0 |
| HALLMARK_APOPTOSIS | 161 | 0.473194 | 0.0151805 | 0.113 | 0.226 | 25 | 2 | 0 | 0.28063 | 0 | 0.403 | 0.468605 | 43 | 0 | 0 |

**Supplemental Table S8. Transcripts Per Million (TPM) counts of non-treated and treated NK92 cells in connectivity scoring analysis shown in Figure 2**

| Gene_ID | Transcript_ID | Gene_Symbol | Description | gene_biotype | NK92-non-treat_TPM | NK92-treat_TPM | [NK92-non-treat_TPM]+1 | [NK92-treat_TPM]+1 | FC (NK92-treat/non-treat) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | NM_130786 | **A1BG** | alpha-1-B glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2 | NM_000014,NM_00 | **A2M** | alpha-2-macroglobulin | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 3 | NR_040112 | **A2MP1** | alpha-2-macroglobulin p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 9 | NM_000662,NM_00 | **NAT1** | N-acetyltransferase 1 | protein_coding | 8 | 9 | 9 | 10 | 1.039 |
| 10 | NM_000015,XM_01 | **NAT2** | N-acetyltransferase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 12 | NM_001085 | **SERPINA3** | serpin family A member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 13 | NM_001086,XM_00 | **AADAC** | arylacetamide deacetyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 14 | NM_001087,NM_00 | **AAMP** | angio associated migrat | protein_coding | 291 | 284 | 292 | 285 | 0.977 |
| 15 | NM_001088,NM_00 | **AANAT** | aralkylamine N-acetyltra | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 16 | NM_001605,XR_93 | **AARS1** | alanyl-tRNA synthetase 1 | protein_coding | 78 | 78 | 79 | 79 | 0.995 |
| 18 | NM_000663,NM_00 | **ABAT** | 4-aminobutyrate aminotr | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 19 | NM_005502,XM_00 | **ABCA1** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 20 | NM_001606,NM_21 | **ABCA2** | ATP binding cassette sul | protein_coding | 22 | 22 | 23 | 23 | 1.004 |
| 21 | NM_001089 | **ABCA3** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 22 | NM_001271696,NM | **ABCB7** | ATP binding cassette sul | protein_coding | 19 | 17 | 20 | 18 | 0.898 |
| 23 | NM_001025091,NM | **ABCF1** | ATP binding cassette sul | protein_coding | 157 | 155 | 158 | 156 | 0.983 |
| 24 | NM_000350 | **ABCA4** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25 | NM_005157,NM_00 | **ABL1** | ABL proto-oncogene 1, n | protein_coding | 26 | 25 | 27 | 26 | 0.962 |
| 26 | NM_001091,NM_00 | **AOC1** | amine oxidase copper co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27 | NM_001136000,NM | **ABL2** | ABL proto-oncogene 2, n | protein_coding | 11 | 8 | 12 | 9 | 0.762 |
| 28 | NM_020469 | **ABO** | ABO, alpha 1-3-N-acetyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29 | NM_001092,NM_00 | **ABR** | ABR activator of RhoGEF | protein_coding | 21 | 21 | 22 | 22 | 1.006 |
| 30 | NM_001130410,NM | **ACAA1** | acetyl-CoA acyltransfera | protein_coding | 36 | 37 | 37 | 38 | 1.049 |
| 31 | NM_198834,NM_19 | **ACACA** | acetyl-CoA carboxylase a | protein_coding | 22 | 19 | 23 | 20 | 0.848 |
| 32 | NM_001093,XM_00 | **ACACB** | acetyl-CoA carboxylase b | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 33 | NM_001608,XM_00 | **ACADL** | acyl-CoA dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 34 | NM_000016,NM_00 | **ACADM** | acyl-CoA dehydrogenase | protein_coding | 125 | 113 | 126 | 114 | 0.901 |
| 35 | NM_000017,NM_00 | **ACADS** | acyl-CoA dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.149 |
| 36 | NM_001330174,NM | **ACADSB** | acyl-CoA dehydrogenase | protein_coding | 5 | 5 | 6 | 6 | 0.974 |
| 37 | NM_000018,NM_00 | **ACADVL** | acyl-CoA dehydrogenase | protein_coding | 60 | 57 | 61 | 58 | 0.953 |
| 38 | NM_000019,XM_00 | **ACAT1** | acetyl-CoA acetyltransfe | protein_coding | 134 | 131 | 135 | 132 | 0.973 |
| 39 | NM_001303253,NM | **ACAT2** | acetyl-CoA acetyltransfe | protein_coding | 104 | 94 | 105 | 95 | 0.910 |
| 40 | NM_001094,NM_18 | **ASIC2** | acid sensing ion channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 41 | NM_001095,NM_00 | **ASIC1** | acid sensing ion channel | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 43 | NM_000665,NM_00 | **ACHE** | acetylcholinesterase (Ca | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 47 | NM_001096,NM_00 | **ACLY** | ATP citrate lyase | protein_coding | 260 | 249 | 261 | 250 | 0.959 |
| 48 | NM_001278352,NM | **ACO1** | aconitase 1 | protein_coding | 1 | 1 | 2 | 2 | 0.906 |
| 49 | NM_001097 | **ACR** | acrosin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50 | NM_001098,XM_01 | **ACO2** | aconitase 2 | protein_coding | 157 | 161 | 158 | 162 | 1.021 |
| 51 | NM_001185039,NM | **ACOX1** | acyl-CoA oxidase 1 | protein_coding | 8 | 8 | 9 | 9 | 0.951 |
| 52 | NM_001040649,NM | **ACP1** | acid phosphatase 1 | protein_coding | 185 | 177 | 186 | 178 | 0.954 |
| 53 | NM_001302489,NM | **ACP2** | acid phosphatase 2, lysc | protein_coding | 31 | 38 | 32 | 39 | 1.224 |
| 54 | NM_001111034,NM | **ACP5** | acid phosphatase 5, tart | protein_coding | 0 | 0 | 1 | 1 | 0.914 |
| 55 | NM_001099,NM_00 | **ACP3** | acid phosphatase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56 | NM_001612,NM_02 | **ACRV1** | acrosomal vesicle proteir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58 | NM_001100 | **ACTA1** | actin alpha 1, skeletal m | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 59 | NM_001141945,NM | **ACTA2** | actin alpha 2, smooth m | protein_coding | 0 | 1 | 1 | 2 | 1.133 |
| 60 | NM_001101 | **ACTB** | actin beta | protein_coding | 7,775 | 8,598 | 7,776 | 8,599 | 1.106 |
| 62 | gene-ACTBP2 | **ACTBP2** | ACTB pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.886 |
| 64 | gene-ACTBP4 | **ACTBP4** | ACTB pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.062 |
| 67 | gene-ACTBP7 | **ACTBP7** | ACTB pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 68 | gene-ACTBP8 | **ACTBP8** | ACTB pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 69 | gene-ACTBP9 | **ACTBP9** | ACTB pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 70 | NM_005159 | **ACTC1** | actin alpha cardiac musc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 71 | NM_001199954,NM | **ACTG1** | actin gamma 1 | protein_coding | 5,306 | 5,508 | 5,307 | 5,509 | 1.038 |
| 72 | NM_001199893,NM | **ACTG2** | actin gamma 2, smooth r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 73 | gene-ACTG1P1 | **ACTG1P1** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.047 |
| 75 | gene-ACTG1P3 | **ACTG1P3** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 81 | NM_001322033,NM | **ACTN4** | actinin alpha 4 | protein_coding | 264 | 274 | 265 | 275 | 1.036 |
| 82 | gene-ACTG1P9 | **ACTG1P9** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 83 | gene-ACTG1P10 | **ACTG1P10** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 86 | NM_004301,NM_17 | **ACTL6A** | actin like 6A | protein_coding | 123 | 116 | 124 | 117 | 0.949 |
| 87 | NM_001102,NM_00 | **ACTN1** | actinin alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 88 | NM_001103,NM_00 | **ACTN2** | actinin alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 89 | NM_001104,NM_00 | **ACTN3** | actinin alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90 | NM_001105,NM_00 | **ACVR1** | activin A receptor type 1 | protein_coding | 4 | 4 | 5 | 5 | 0.925 |
| 91 | NM_004302,NM_02 | **ACVR1B** | activin A receptor type 1E | protein_coding | 19 | 15 | 20 | 16 | 0.783 |
| 92 | NM_001278579,NM | **ACVR2A** | activin A receptor type 2A | protein_coding | 1 | 1 | 2 | 2 | 0.943 |
| 93 | NM_001106,XM_00 | **ACVR2B** | activin A receptor type 2E | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 94 | NM_000020,NM_00 | **ACVRL1** | activin A receptor like typ | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 95 | NM_000666,NM_00 | **ACY1** | aminoacylase 1 | protein_coding | 4 | 4 | 5 | 5 | 0.938 |
| 97 | NM_001107,NM_00 | **ACYP1** | acylphosphatase 1 | protein_coding | 72 | 75 | 73 | 76 | 1.033 |
| 98 | NM_001320586,NM | **ACYP2** | acylphosphatase 2 | protein_coding | 4 | 5 | 5 | 6 | 1.129 |
| 100 | NM_000022,NM_00 | **ADA** | adenosine deaminase | protein_coding | 13 | 14 | 14 | 15 | 1.082 |
| 101 | NM_001109,NM_00 | **ADAM8** | ADAM metallopeptidase | protein_coding | 2 | 1 | 3 | 2 | 0.755 |
| 102 | NM_001110,NM_00 | **ADAM10** | ADAM metallopeptidase | protein_coding | 40 | 45 | 41 | 46 | 1.132 |
| 103 | NM_001025107,NM | **ADAR** | adenosine deaminase RI | protein_coding | 217 | 190 | 218 | 191 | 0.876 |
| 104 | NM_001112,NM_00 | **ADARB1** | adenosine deaminase RI | protein_coding | 47 | 47 | 48 | 48 | 1.011 |
| 105 | NM_018702 | **ADARB2** | adenosine deaminase RI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107 | NM_001281768,NM | **ADCY1** | adenylate cyclase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 108 | NM_020546,XM_01 | **ADCY2** | adenylate cyclase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 109 | NM_001320613,NM | **ADCY3** | adenylate cyclase 3 | protein_coding | 145 | 129 | 146 | 130 | 0.886 |
| 111 | NM_001199642,NM | **ADCY5** | adenylate cyclase 5 | protein_coding | 0 | 0 | 1 | 1 | 0.929 |
| 112 | NM_015270,XM_00 | **ADCY6** | adenylate cyclase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 113 | NM_001114,NM_00 | **ADCY7** | adenylate cyclase 7 | protein_coding | 35 | 30 | 36 | 31 | 0.872 |
| 114 | NM_001115,XM_00 | **ADCY8** | adenylate cyclase 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115 | NM_001116,XM_00 | **ADCY9** | adenylate cyclase 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116 | NM_001099733,NM | **ADCYAP1** | adenylate cyclase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117 | NM_001118,NM_00 | **ADCYAP1R1** | ADCYAP receptor type I | protein_coding | 2 | 2 | 3 | 3 | 1.026 |
| 118 | NM_001119,NM_00 | **ADD1** | adducin 1 | protein_coding | 113 | 109 | 114 | 110 | 0.962 |
| 119 | NM_001185054,NM | **ADD2** | adducin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120 | NM_001121,NM_00 | **ADD3** | adducin 3 | protein_coding | 105 | 99 | 106 | 100 | 0.943 |
| 123 | NM_001122,NR_03 | **PLIN2** | perilipin 2 | protein_coding | 9 | 8 | 10 | 9 | 0.852 |
| 124 | NM_000667 | **ADH1A** | alcohol dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125 | NM_000668,NM_00 | **ADH1B** | alcohol dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126 | NM_000669,NR_13 | **ADH1C** | alcohol dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127 | NM_000670,NM_00 | **ADH4** | alcohol dehydrogenase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128 | NM_000671 | **ADH5** | alcohol dehydrogenase 5 | protein_coding | 72 | 77 | 73 | 78 | 1.059 |
| 130 | NM_000672,NM_00 | **ADH6** | alcohol dehydrogenase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131 | NM_000673,NM_00 | **ADH7** | alcohol dehydrogenase 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132 | NM_001123,NM_00 | **ADK** | adenosine kinase | protein_coding | 64 | 57 | 65 | 58 | 0.900 |
| 133 | NM_001124 | **ADM** | adrenomedullin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134 | NM_000674,NM_00 | **ADORA1** | adenosine A1 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135 | NM_000675,NM_00 | **ADORA2A** | adenosine A2a receptor | protein_coding | 28 | 32 | 29 | 33 | 1.135 |
| 136 | NM_000676,XM_01 | **ADORA2B** | adenosine A2b receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137 | gene-ADORA2BP1 | **ADORA2BP1** | adenosine A2b receptor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140 | NM_000677,NM_00 | **ADORA3** | adenosine A3 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 141 | NM_001125,NM_00 | **ADPRH** | ADP-ribosylarginine hydr | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 142 | NM_001618 | **PARP1** | poly(ADP-ribose) polyme | protein_coding | 231 | 219 | 232 | 220 | 0.949 |
| 143 | NM_006437,XM_01 | **PARP4** | poly(ADP-ribose) polyme | protein_coding | 58 | 51 | 59 | 52 | 0.884 |
| 144 | gene-PARP1P1 | **PARP1P1** | poly(ADP-ribose) polyme | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 145 | gene-PARP1P2 | **PARP1P2** | poly(ADP-ribose) polyme | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 146 | NM_000678 | **ADRA1D** | adrenoceptor alpha 1D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147 | NM_000679,XM_00 | **ADRA1B** | adrenoceptor alpha 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148 | NM_000680,NM_00 | **ADRA1A** | adrenoceptor alpha 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150 | NM_000681 | **ADRA2A** | adrenoceptor alpha 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151 | NM_000682 | **ADRA2B** | adrenoceptor alpha 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152 | NM_000683 | **ADRA2C** | adrenoceptor alpha 2C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153 | NM_000684 | **ADRB1** | adrenoceptor beta 1 | protein_coding | 7 | 7 | 8 | 8 | 0.927 |
| 154 | NM_000024 | **ADRB2** | adrenoceptor beta 2 | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 155 | NM_000025 | **ADRB3** | adrenoceptor beta 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 156 | NM_001619,XM_01 | **GRK2** | G protein-coupled recep | protein_coding | 314 | 330 | 315 | 331 | 1.051 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 157 | NM_001362778,NM | **GRK3** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158 | NM_000026,NM_00 | **ADSL** | adenylosuccinate lyase | protein_coding | 124 | 111 | 125 | 112 | 0.899 |
| 159 | NM_001126,NM_00 | **ADSS2** | adenylosuccinate syntha | protein_coding | 116 | 110 | 117 | 111 | 0.949 |
| 160 | NM_014203,NM_13 | **AP2A1** | adaptor related protein c | protein_coding | 79 | 79 | 80 | 80 | 1.001 |
| 161 | NM_001242837,NM | **AP2A2** | adaptor related protein c | protein_coding | 21 | 19 | 22 | 20 | 0.907 |
| 162 | NM_001127,NM_00 | **AP1B1** | adaptor related protein c | protein_coding | 96 | 99 | 97 | 100 | 1.034 |
| 163 | NM_001030006,NM | **AP2B1** | adaptor related protein c | protein_coding | 229 | 210 | 230 | 211 | 0.920 |
| 164 | NM_001030007,NM | **AP1G1** | adaptor related protein c | protein_coding | 52 | 45 | 53 | 46 | 0.874 |
| 165 | NM_001129,XM_01 | **AEBP1** | AE binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166 | NM_001130,NM_19 | **TLE5** | TLE family member 5, tra | protein_coding | 169 | 170 | 170 | 171 | 1.003 |
| 167 | NM_001131,NM_00 | **CRISP1** | cysteine rich secretory pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 172 | NR_003226,NR_00 | **AFG3L1P** | AFG3 like matrix AAA pe | transcribed_pseu | 16 | 19 | 17 | 20 | 1.162 |
| 173 | NM_001133,XM_01 | **AFM** | afamin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 174 | NM_001134,NM_00 | **AFP** | alpha fetoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 175 | NM_000027,NM_00 | **AGA** | aspartylglucosaminidase | protein_coding | 7 | 8 | 8 | 9 | 1.045 |
| 176 | NM_001135,NM_00 | **ACAN** | aggrecan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 177 | NM_001136,NM_00 | **AGER** | advanced glycosylation e | protein_coding | 4 | 4 | 5 | 5 | 0.913 |
| 178 | NM_000028,NM_00 | **AGL** | amylo-alpha-1, 6-glucosi | protein_coding | 21 | 16 | 22 | 17 | 0.779 |
| 181 | NM_001138 | **AGRP** | agouti related neuropept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 182 | NM_000214 | **JAG1** | jagged canonical Notch l | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 183 | NM_000029,NM_00 | **AGT** | angiotensinogen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 185 | NM_000685,NM_00 | **AGTR1** | angiotensin II receptor ty | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 186 | NM_000686,XM_01 | **AGTR2** | angiotensin II receptor ty | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 187 | NM_005161,NR_02 | **APLNR** | apelin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 189 | NM_000030 | **AGXT** | alanine--glyoxylate and s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 190 | NM_000475 | **NR0B1** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 191 | NM_000687,NM_00 | **AHCY** | adenosylhomocysteinase | protein_coding | 471 | 466 | 472 | 467 | 0.988 |
| 196 | NM_001621 | **AHR** | aryl hydrocarbon recepto | protein_coding | 4 | 4 | 5 | 5 | 1.042 |
| 197 | NM_001354571,NM | **AHSG** | alpha 2-HS glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199 | NM_001318970,NM | **AIF1** | allograft inflammatory fa | protein_coding | 2 | 3 | 3 | 4 | 1.247 |
| 202 | NM_001371242,NM | **CRYBG1** | crystallin beta-gamma do | protein_coding | 29 | 24 | 30 | 25 | 0.836 |
| 203 | NM_000476,NM_00 | **AK1** | adenylate kinase 1 | protein_coding | 1 | 1 | 2 | 2 | 0.841 |
| 204 | NM_001199199,NM | **AK2** | adenylate kinase 2 | protein_coding | 384 | 352 | 385 | 353 | 0.915 |
| 205 | NM_001005353,NM | **AK4** | adenylate kinase 4 | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 206 | gene-AK4P1 | **AK4P1** | adenylate kinase 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 0.925 |
| 207 | NM_001014431,NM | **AKT1** | AKT serine/threonine kin | protein_coding | 112 | 110 | 113 | 111 | 0.979 |
| 208 | NM_001243027,NM | **AKT2** | AKT serine/threonine kin | protein_coding | 77 | 81 | 78 | 82 | 1.045 |
| 210 | NM_000031,NM_00 | **ALAD** | aminolevulinate dehydra | protein_coding | 13 | 12 | 14 | 13 | 0.863 |
| 211 | NM_000688,NM_00 | **ALAS1** | 5'-aminolevulinate synth | protein_coding | 47 | 51 | 48 | 52 | 1.081 |
| 212 | NM_000032,NM_00 | **ALAS2** | 5'-aminolevulinate synth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 213 | NM_000477 | **ALB** | albumin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 214 | NM_001243280,NM | **ALCAM** | activated leukocyte cell a | protein_coding | 6 | 6 | 7 | 7 | 0.937 |
| 215 | NM_000033,XR_93 | **ABCD1** | ATP binding cassette sul | protein_coding | 2 | 2 | 3 | 3 | 1.103 |
| 216 | NM_000689 | **ALDH1A1** | aldehyde dehydrogenas | protein_coding | 2 | 2 | 3 | 3 | 0.967 |
| 217 | NM_000690,NM_00 | **ALDH2** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 218 | NM_000691,NM_00 | **ALDH3A1** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219 | NM_000692,XM_01 | **ALDH1B1** | aldehyde dehydrogenas | protein_coding | 31 | 29 | 32 | 30 | 0.953 |
| 220 | NM_000693,NM_00 | **ALDH1A3** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221 | NM_000694,NM_00 | **ALDH3B1** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.171 |
| 222 | NM_001031615,NM | **ALDH3B2** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 223 | NM_000696,NM_00 | **ALDH9A1** | aldehyde dehydrogenas | protein_coding | 89 | 85 | 90 | 86 | 0.954 |
| 224 | NM_000382,NM_00 | **ALDH3A2** | aldehyde dehydrogenas | protein_coding | 18 | 17 | 19 | 18 | 0.964 |
| 225 | NM_005164,XM_01 | **ABCD2** | ATP binding cassette sul | protein_coding | 1 | 1 | 2 | 2 | 0.806 |
| 226 | NM_001127617,NM | **ALDOA** | aldolase, fructose-bisph | protein_coding | 1,441 | 1,546 | 1,442 | 1,547 | 1.073 |
| 228 | gene-ALDOAP2 | **ALDOAP2** | ALDOA pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 229 | NM_000035 | **ALDOB** | aldolase, fructose-bisph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 230 | NM_005165,XM_00 | **ALDOC** | aldolase, fructose-bisph | protein_coding | 2 | 2 | 3 | 3 | 0.908 |
| 231 | NM_001346142,NM | **AKR1B1** | aldo-keto reductase fami | protein_coding | 243 | 266 | 244 | 267 | 1.093 |
| 236 | gene-AKR1B1P2 | **AKR1B1P2** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 238 | NM_001353765,NM | **ALK** | ALK receptor tyrosine kir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 239 | NM_000697,XM_01 | **ALOX12** | arachidonate 12-lipoxyge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 240 | NM_000698,NM_00 | **ALOX5** | arachidonate 5-lipoxyger | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 241 | NM_001204406,NM | **ALOX5AP** | arachidonate 5-lipoxyger | protein_coding | 394 | 354 | 395 | 355 | 0.900 |
| 242 | NM_001139 | **ALOX12B** | arachidonate 12-lipoxyge | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 243 | gene-ALOX12P1 | **ALOX12P1** | arachidonate 12-lipoxyge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 245 | NR_002710,NR_12 | **ALOX12P2** | arachidonate 12-lipoxyge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 246 | NM_001140 | **ALOX15** | arachidonate 15-lipoxyge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 247 | NM_001039130,NM | **ALOX15B** | arachidonate 15-lipoxyge | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 248 | NM_001631 | **ALPI** | alkaline phosphatase, int | protein_coding | 6 | 10 | 7 | 11 | 1.542 |
| 249 | NM_000478,NM_00 | **ALPL** | alkaline phosphatase, tis | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 250 | NM_001632 | **ALPP** | alkaline phosphatase, pl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 251 | NM_031313 | **ALPG** | alkaline phosphatase, ge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257 | NM_006492 | **ALX3** | ALX homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 258 | NM_016519 | **AMBN** | ameloblastin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259 | NM_001633 | **AMBP** | alpha-1-microglobulin/bik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 262 | NM_001287214,NM | **AMD1** | adenosylmethionine dec | protein_coding | 167 | 141 | 168 | 142 | 0.845 |
| 263 | gene-AMD1P2,gene | **AMD1P2** | adenosylmethionine dec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 265 | NM_001142,NM_18 | **AMELX** | amelogenin X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 266 | NM_001143,NM_00 | **AMELY** | amelogenin Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 267 | NM_001144,NM_00 | **AMFR** | autocrine motility factor r | protein_coding | 24 | 24 | 25 | 25 | 0.985 |
| 268 | NM_000479 | **AMH** | anti-Mullerian hormone | protein_coding | 2 | 2 | 3 | 3 | 0.887 |
| 269 | NM_001164690,NM | **AMHR2** | anti-Mullerian hormone r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 270 | NM_000036,NM_00 | **AMPD1** | adenosine monophospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 271 | NM_001257361,NM | **AMPD2** | adenosine monophospha | protein_coding | 75 | 73 | 76 | 74 | 0.977 |
| 272 | NM_000480,NM_00 | **AMPD3** | adenosine monophospha | protein_coding | 16 | 14 | 17 | 15 | 0.901 |
| 273 | NM_001635,NM_13 | **AMPH** | amphiphysin | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 274 | NM_001320632,NM | **BIN1** | bridging integrator 1 | protein_coding | 79 | 83 | 80 | 84 | 1.050 |
| 275 | NM_000481,NM_00 | **AMT** | aminomethyltransferase | protein_coding | 0 | 0 | 1 | 1 | 1.263 |
| 276 | NM_001008221,NM | **AMY1A** | amylase alpha 1A | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 277 | NM_001008218,XM | **AMY1B** | amylase alpha 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 278 | NM_001008219,NM | **AMY1C** | amylase alpha 1C | protein_coding | 0 | 0 | 1 | 1 | 1.070 |
| 279 | NM_000699 | **AMY2A** | amylase alpha 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 280 | NM_020978 | **AMY2B** | amylase alpha 2B | protein_coding | 2 | 2 | 3 | 3 | 1.005 |
| 281 | gene-AMYP1 | **AMYP1** | amylase alpha pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283 | NM_001097577,NM | **ANG** | angiogenin | protein_coding | 0 | 0 | 1 | 1 | 0.888 |
| 284 | NM_001146,NM_00 | **ANGPT1** | angiopoietin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285 | NM_001118887,NM | **ANGPT2** | angiopoietin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286 | NM_000037,NM_00 | **ANK1** | ankyrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 287 | NM_001127493,NM | **ANK2** | ankyrin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 288 | NM_001149,NM_00 | **ANK3** | ankyrin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 290 | NM_001150,NM_00 | **ANPEP** | alanyl aminopeptidase, r | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 291 | NM_001151 | **SLC25A4** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 292 | NM_001152 | **SLC25A5** | solute carrier family 25 m | protein_coding | 1,131 | 1,129 | 1,132 | 1,130 | 0.998 |
| 293 | NM_001636,NM_00 | **SLC25A6** | solute carrier family 25 m | protein_coding | 442 | 464 | 443 | 465 | 1.049 |
| 301 | NM_000700,XM_01 | **ANXA1** | annexin A1 | protein_coding | 26 | 31 | 27 | 32 | 1.180 |
| 302 | NM_001002857,NM | **ANXA2** | annexin A2 | protein_coding | 394 | 440 | 395 | 441 | 1.118 |
| 303 | NR_001562 | **ANXA2P1** | annexin A2 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 304 | NR_003573 | **ANXA2P2** | annexin A2 pseudogene | transcribed_pseu | 0 | 1 | 1 | 2 | 1.366 |
| 305 | NR_001446 | **ANXA2P3** | annexin A2 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 306 | NM_005139,XR_00 | **ANXA3** | annexin A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 307 | NM_001153,NM_00 | **ANXA4** | annexin A4 | protein_coding | 18 | 18 | 19 | 19 | 1.004 |
| 308 | NM_001154,XM_01 | **ANXA5** | annexin A5 | protein_coding | 208 | 209 | 209 | 210 | 1.007 |
| 309 | NM_001155,NM_00 | **ANXA6** | annexin A6 | protein_coding | 138 | 131 | 139 | 132 | 0.950 |
| 310 | NM_001156,NM_00 | **ANXA7** | annexin A7 | protein_coding | 62 | 62 | 63 | 63 | 0.990 |
| 311 | NM_001157,NM_00 | **ANXA11** | annexin A11 | protein_coding | 46 | 53 | 47 | 54 | 1.145 |
| 312 | NM_001003954,NM | **ANXA13** | annexin A13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 313 | NM_001177506,NM | **AOAH** | acyloxyacyl hydrolase | protein_coding | 2 | 1 | 3 | 2 | 0.725 |
| 314 | NM_001158,NM_00 | **AOC2** | amine oxidase copper co | protein_coding | 4 | 4 | 5 | 5 | 1.095 |
| 316 | NM_001159,XM_01 | **AOX1** | aldehyde oxidase 1 | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 317 | NM_001160,NM_01 | **APAF1** | apoptotic peptidase activ | protein_coding | 12 | 11 | 13 | 12 | 0.876 |
| 318 | NM_001161,NM_00 | **NUDT2** | nudix hydrolase 2 | protein_coding | 30 | 30 | 31 | 31 | 1.002 |
| 319 | NM_001638 | **APOF** | apolipoprotein F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 320 | NM_001163,XM_00 | **APBA1** | amyloid beta precursor p | protein_coding | 4 | 3 | 5 | 4 | 0.695 |
| 321 | NM_001130414,NM | **APBA2** | amyloid beta precursor p | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 322 | NM_001164,NM_00 | **APBB1** | amyloid beta precursor p | protein_coding | 46 | 42 | 47 | 43 | 0.903 |
| 323 | NM_001166050,NM | **APBB2** | amyloid beta precursor p | protein_coding | 25 | 24 | 26 | 25 | 0.983 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 324 | NM_000038,NM_00 | **APC** | APC regulator of WNT si | protein_coding | 14 | 11 | 15 | 12 | 0.826 |
| 325 | NM_001639 | **APCS** | amyloid P component, s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 326 | NM_000383 | **AIRE** | autoimmune regulator | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 327 | NM_001640,XM_00 | **APEH** | acylaminoacyl-peptide h | protein_coding | 66 | 66 | 67 | 67 | 0.990 |
| 328 | NM_001244249,NM | **APEX1** | apurinic/apyrimidinic end | protein_coding | 248 | 265 | 249 | 266 | 1.069 |
| 329 | NM_001166,NM_00 | **BIRC2** | baculoviral IAP repeat co | protein_coding | 34 | 27 | 35 | 28 | 0.808 |
| 330 | NM_001165,NM_18 | **BIRC3** | baculoviral IAP repeat co | protein_coding | 20 | 16 | 21 | 17 | 0.804 |
| 331 | NM_001167,NM_00 | **XIAP** | X-linked inhibitor of apop | protein_coding | 18 | 16 | 19 | 17 | 0.851 |
| 332 | NM_001012270,NM | **BIRC5** | baculoviral IAP repeat co | protein_coding | 207 | 193 | 208 | 194 | 0.932 |
| 333 | NM_001024807,NM | **APLP1** | amyloid beta precursor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 334 | NM_001142276,NM | **APLP2** | amyloid beta precursor li | protein_coding | 111 | 107 | 112 | 108 | 0.968 |
| 335 | NM_000039,NM_00 | **APOA1** | apolipoprotein A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 336 | NM_001643 | **APOA2** | apolipoprotein A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337 | NM_000482 | **APOA4** | apolipoprotein A4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338 | NM_000384 | **APOB** | apolipoprotein B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339 | NM_001304566,NM | **APOBEC1** | apolipoprotein B mRNA e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341 | NM_001321065,NM | **APOC1** | apolipoprotein C1 | protein_coding | 0 | 0 | 1 | 1 | 0.825 |
| 342 | NR_028412,NR_02 | **APOC1P1** | apolipoprotein C1 pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 343 | NM_001169,XM_01 | **AQP8** | aquaporin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344 | NM_000483 | **APOC2** | apolipoprotein C2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345 | NM_000040 | **APOC3** | apolipoprotein C3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346 | NM_001646 | **APOC4** | apolipoprotein C4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347 | NM_001647 | **APOD** | apolipoprotein D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348 | NM_000041,NM_00 | **APOE** | apolipoprotein E | protein_coding | 0 | 0 | 1 | 1 | 0.808 |
| 350 | NM_000042 | **APOH** | apolipoprotein H | protein_coding | 0 | 0 | 1 | 1 | 1.083 |
| 351 | NM_000484,NM_00 | **APP** | amyloid beta precursor p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353 | NM_000485,NM_00 | **APRT** | adenine phosphoribosylt | protein_coding | 179 | 198 | 180 | 199 | 1.111 |
| 354 | NM_001030047,NM | **KLK3** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 355 | NM_000043,NM_00 | **FAS** | Fas cell surface death re | protein_coding | 11 | 9 | 12 | 10 | 0.867 |
| 356 | NM_000639,NM_00 | **FASLG** | Fas ligand | protein_coding | 145 | 132 | 146 | 133 | 0.907 |
| 357 | NM_001320663,NM | **SHROOM2** | shroom family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 358 | NM_001329872,NM | **AQP1** | aquaporin 1 (Colton bloo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 359 | NM_000486 | **AQP2** | aquaporin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360 | NM_001318144,NM | **AQP3** | aquaporin 3 (Gill blood g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 361 | NM_001317384,NM | **AQP4** | aquaporin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 362 | NM_001651,XM_00 | **AQP5** | aquaporin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 363 | NM_001652 | **AQP6** | aquaporin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 364 | NM_001170,NM_00 | **AQP7** | aquaporin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 366 | NM_001320635,NM | **AQP9** | aquaporin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 367 | NM_000044,NM_00 | **AR** | androgen receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 368 | NM_001079528,NM | **ABCC6** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 369 | NM_001256196,NM | **ARAF** | A-Raf proto-oncogene, s | protein_coding | 62 | 61 | 63 | 62 | 0.998 |
| 372 | NM_001142281,NM | **ARCN1** | archain 1 | protein_coding | 191 | 158 | 192 | 159 | 0.827 |
| 373 | NM_001656,NM_03 | **TRIM23** | tripartite motif containing | protein_coding | 6 | 5 | 7 | 6 | 0.791 |
| 374 | NM_001657 | **AREG** | amphiregulin | protein_coding | 0 | 0 | 1 | 1 | 0.709 |
| 375 | NM_001024226,NM | **ARF1** | ADP ribosylation factor 1 | protein_coding | 393 | 383 | 394 | 384 | 0.975 |
| 377 | NM_001659,XM_00 | **ARF3** | ADP ribosylation factor 3 | protein_coding | 159 | 156 | 160 | 157 | 0.979 |
| 378 | NM_001660 | **ARF4** | ADP ribosylation factor 4 | protein_coding | 164 | 155 | 165 | 156 | 0.943 |
| 379 | NM_001661,XM_01 | **ARL4D** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 380 | gene-ARF4P1 | **ARF4P1** | ADP ribosylation factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 381 | NM_001662 | **ARF5** | ADP ribosylation factor 5 | protein_coding | 154 | 166 | 155 | 167 | 1.077 |
| 382 | NM_001663 | **ARF6** | ADP ribosylation factor 6 | protein_coding | 152 | 147 | 153 | 148 | 0.968 |
| 383 | NM_000045,NM_00 | **ARG1** | arginase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 384 | NM_001172 | **ARG2** | arginase 2 | protein_coding | 10 | 7 | 11 | 8 | 0.729 |
| 387 | NM_001313941,NM | **RHOA** | ras homolog family mem | protein_coding | 577 | 567 | 578 | 568 | 0.983 |
| 388 | NM_004040 | **RHOB** | ras homolog family mem | protein_coding | 6 | 7 | 7 | 8 | 1.207 |
| 389 | NM_001042678,NM | **RHOC** | ras homolog family mem | protein_coding | 217 | 236 | 218 | 237 | 1.085 |
| 390 | NM_001254738,NM | **RND3** | Rho family GTPase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391 | NM_001665,XM_00 | **RHOG** | ras homolog family mem | protein_coding | 219 | 229 | 220 | 230 | 1.047 |
| 392 | NM_004308,XM_01 | **ARHGAP1** | Rho GTPase activating p | protein_coding | 62 | 69 | 63 | 70 | 1.116 |
| 393 | NM_001164741,NM | **ARHGAP4** | Rho GTPase activating p | protein_coding | 79 | 88 | 80 | 89 | 1.119 |
| 394 | NM_001030055,NM | **ARHGAP5** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 395 | NM_001287242,NM | **ARHGAP6** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 396 | NM_001185077,NM | **ARHGDIA** | Rho GDP dissociation inl | protein_coding | 519 | 527 | 520 | 528 | 1.017 |
| 397 | NM_001175,NM_00 | **ARHGDIB** | Rho GDP dissociation inl | protein_coding | 608 | 604 | 609 | 605 | 0.994 |
| 398 | NM_001176 | **ARHGDIG** | Rho GDP dissociation inl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399 | NM_001278359,NM | **RHOH** | ras homolog family mem | protein_coding | 10 | 11 | 11 | 12 | 1.026 |
| 400 | NM_001177,NM_00 | **ARL1** | ADP ribosylation factor li | protein_coding | 35 | 31 | 36 | 32 | 0.874 |
| 401 | NM_005169 | **PHOX2A** | paired like homeobox 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402 | NM_001199745,NM | **ARL2** | ADP ribosylation factor li | protein_coding | 47 | 50 | 48 | 51 | 1.054 |
| 403 | NM_004311,XM_01 | **ARL3** | ADP ribosylation factor li | protein_coding | 5 | 5 | 6 | 6 | 1.004 |
| 405 | NM_001197325,NM | **ARNT** | aryl hydrocarbon receptc | protein_coding | 22 | 20 | 23 | 21 | 0.898 |
| 406 | NM_001030272,NM | **ARNTL** | aryl hydrocarbon receptc | protein_coding | 17 | 17 | 18 | 18 | 1.012 |
| 407 | NM_004312,XM_01 | **ARR3** | arrestin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 408 | NM_004041,NM_02 | **ARRB1** | arrestin beta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 409 | NM_001257328,NM | **ARRB2** | arrestin beta 2 | protein_coding | 27 | 26 | 28 | 27 | 0.961 |
| 410 | NM_000487,NM_00 | **ARSA** | arylsulfatase A | protein_coding | 6 | 5 | 7 | 6 | 0.891 |
| 411 | NM_000046,NM_19 | **ARSB** | arylsulfatase B | protein_coding | 26 | 24 | 27 | 25 | 0.915 |
| 412 | NM_000351,NM_00 | **STS** | steroid sulfatase | protein_coding | 5 | 4 | 6 | 5 | 0.940 |
| 414 | NM_001669,NM_00 | **ARSD** | arylsulfatase D | protein_coding | 4 | 4 | 5 | 5 | 0.905 |
| 415 | NM_000047,NM_00 | **ARSL** | arylsulfatase L | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 416 | NM_001201538,NM | **ARSF** | arylsulfatase F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 417 | NM_004314,XM_01 | **ART1** | ADP-ribosyltransferase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 419 | NM_001130016,NM | **ART3** | ADP-ribosyltransferase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 420 | NM_001354646,NM | **ART4** | ADP-ribosyltransferase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 421 | NM_001670,XM_00 | **ARVCF** | ARVCF delta catenin fan | protein_coding | 0 | 0 | 1 | 1 | 1.128 |
| 427 | NM_001127505,NM | **ASAH1** | N-acylsphingosine amidc | protein_coding | 14 | 14 | 15 | 15 | 0.995 |
| 429 | NM_004316 | **ASCL1** | achaete-scute family bHI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 430 | NM_005170 | **ASCL2** | achaete-scute family bHI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 432 | NM_001197216,NM | **ASGR1** | asialoglycoprotein recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 433 | NM_001181,NM_00 | **ASGR2** | asialoglycoprotein recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 434 | NM_001672,XM_00 | **ASIP** | agouti signaling protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 435 | NM_000048,NM_00 | **ASL** | argininosuccinate lyase | protein_coding | 27 | 28 | 28 | 29 | 1.064 |
| 436 | gene-ASLP1 | **ASLP1** | argininosuccinate lyase p | pseudogene | 2 | 1 | 3 | 2 | 0.851 |
| 438 | NM_001171038,NM | **ASMT** | acetylserotonin O-methy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 439 | NM_001371488,NM | **GET3** | guided entry of tail-anch | protein_coding | 125 | 145 | 126 | 146 | 1.162 |
| 440 | NM_001178075,NM | **ASNS** | asparagine synthetase (g | protein_coding | 2 | 0 | 3 | 1 | 0.492 |
| 443 | NM_000049,NM_00 | **ASPA** | aspartoacylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 444 | NM_001164750,NM | **ASPH** | aspartate beta-hydroxyla | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 445 | NM_000050,NM_05 | **ASS1** | argininosuccinate synthe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 447 | gene-ASS1P2 | **ASS1P2** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 0.911 |
| 449 | gene-ASS1P4 | **ASS1P4** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 450 | gene-ASS1P5 | **ASS1P5** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 451 | gene-ASS1P6 | **ASS1P6** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 453 | gene-ASS1P8 | **ASS1P8** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 454 | gene-ASS1P9 | **ASS1P9** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 455 | gene-ASS1P10 | **ASS1P10** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 459 | gene-ASS1P14 | **ASS1P14** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 460 | NM_001286164,NM | **ASTN1** | astrotactin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 462 | NM_000488,NM_00 | **SERPINC1** | serpin family C member | protein_coding | 0 | 0 | 1 | 1 | 0.913 |
| 463 | NM_001164766,NM | **ZFHX3** | zinc finger homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.071 |
| 466 | NM_005171,XM_01 | **ATF1** | activating transcription fa | protein_coding | 31 | 25 | 32 | 26 | 0.809 |
| 467 | NM_001030287,NM | **ATF3** | activating transcription fa | protein_coding | 6 | 5 | 7 | 6 | 0.896 |
| 468 | NM_001675,NM_18 | **ATF4** | activating transcription fa | protein_coding | 446 | 402 | 447 | 403 | 0.903 |
| 469 | gene-ATF4P1 | **ATF4P1** | activating transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 471 | NM_004044,XM_01 | **ATIC** | 5-aminoimidazole-4-carb | protein_coding | 493 | 467 | 494 | 468 | 0.948 |
| 472 | NM_000051,NM_00 | **ATM** | ATM serine/threonine kin | protein_coding | 20 | 15 | 21 | 16 | 0.764 |
| 473 | NM_001042681,NM | **RERE** | arginine-glutamic acid di | protein_coding | 5 | 5 | 6 | 6 | 0.972 |
| 474 | NM_005172 | **ATOH1** | atonal bHLH transcriptior | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 475 | NM_004045 | **ATOX1** | antioxidant 1 copper cha | protein_coding | 98 | 110 | 99 | 111 | 1.129 |
| 476 | NM_000701,NM_00 | **ATP1A1** | ATPase Na+/K+ transpor | protein_coding | 421 | 395 | 422 | 396 | 0.938 |
| 477 | NM_000702 | **ATP1A2** | ATPase Na+/K+ transpor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 478 | NM_001256213,NM | **ATP1A3** | ATPase Na+/K+ transpor | protein_coding | 44 | 43 | 45 | 44 | 0.975 |
| 479 | NM_001185085,NM | **ATP12A** | ATPase H+/K+ transporti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 480 | NM_001001734,NM | **ATP1A4** | ATPase Na+/K+ transpor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 481 | NM_001677 | **ATP1B1** | ATPase Na+/K+ transpor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 482 | NM_001303263,NM | **ATP1B2** | ATPase Na+/K+ transpor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 483 | NM_001679 | **ATP1B3** | ATPase Na+/K+ transpor | protein_coding | 245 | 246 | 246 | 247 | 1.005 |
| 484 | gene-ATP1B3P1 | **ATP1B3P1** | ATPase Na+/K+ transpor | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 485 | gene-ATP1B1P1 | **ATP1B1P1** | ATPase Na+/K+ transpor | pseudogene | 0 | 0 | 1 | 1 | 0.951 |
| 486 | NM_001680,NM_02 | **FXYD2** | FXYD domain containing | protein_coding | 6 | 5 | 7 | 6 | 0.793 |
| 487 | NM_001286075,NM | **ATP2A1** | ATPase sarcoplasmic/en | protein_coding | 1 | 1 | 2 | 2 | 1.213 |
| 488 | NM_001681,NM_17 | **ATP2A2** | ATPase sarcoplasmic/en | protein_coding | 131 | 125 | 132 | 126 | 0.953 |
| 489 | NM_005173,NM_17 | **ATP2A3** | ATPase sarcoplasmic/en | protein_coding | 67 | 65 | 68 | 66 | 0.967 |
| 490 | NM_001001323,NM | **ATP2B1** | ATPase plasma membra | protein_coding | 23 | 20 | 24 | 21 | 0.880 |
| 491 | NM_001001331,NM | **ATP2B2** | ATPase plasma membra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 492 | NM_001001344,NM | **ATP2B3** | ATPase plasma membra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 493 | NM_001001396,NM | **ATP2B4** | ATPase plasma membra | protein_coding | 33 | 28 | 34 | 29 | 0.869 |
| 495 | NM_000704 | **ATP4A** | ATPase H+/K+ transporti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 496 | NM_000705 | **ATP4B** | ATPase H+/K+ transporti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 498 | NM_001001935,NM | **ATP5F1A** | ATP synthase F1 subuni | protein_coding | 695 | 652 | 696 | 653 | 0.938 |
| 501 | NM_001182,NM_00 | **ALDH7A1** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 504 | gene-ATP5F1AP2 | **ATP5F1AP2** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 506 | NM_001686 | **ATP5F1B** | ATP synthase F1 subuni | protein_coding | 1,341 | 1,320 | 1,342 | 1,321 | 0.984 |
| 507 | gene-ATP5F1BP1 | **ATP5F1BP1** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 509 | NM_001001973,NM | **ATP5F1C** | ATP synthase F1 subuni | protein_coding | 108 | 112 | 109 | 113 | 1.039 |
| 513 | NM_001001975,NM | **ATP5F1D** | ATP synthase F1 subuni | protein_coding | 126 | 141 | 127 | 142 | 1.122 |
| 514 | NM_006886 | **ATP5F1E** | ATP synthase F1 subuni | protein_coding | 201 | 206 | 202 | 207 | 1.027 |
| 515 | NM_001688 | **ATP5PB** | ATP synthase peripheral | protein_coding | 268 | 273 | 269 | 274 | 1.016 |
| 516 | NM_001002027,NM | **ATP5MC1** | ATP synthase membrane | protein_coding | 532 | 541 | 533 | 542 | 1.016 |
| 517 | NM_001002031,NM | **ATP5MC2** | ATP synthase membrane | protein_coding | 149 | 166 | 150 | 167 | 1.108 |
| 518 | NM_001002258,NM | **ATP5MC3** | ATP synthase membrane | protein_coding | 328 | 351 | 329 | 352 | 1.069 |
| 520 | gene-ATP5MC2P1 | **ATP5MC2P1** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 521 | NM_007100,NR_03 | **ATP5ME** | ATP synthase membrane | protein_coding | 421 | 472 | 422 | 473 | 1.122 |
| 522 | NM_001003696,NM | **ATP5PF** | ATP synthase peripheral | protein_coding | 146 | 148 | 147 | 149 | 1.011 |
| 523 | NM_001690 | **ATP6V1A** | ATPase H+ transporting | protein_coding | 64 | 56 | 65 | 57 | 0.891 |
| 525 | NM_001692,XM_01 | **ATP6V1B1** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 526 | NM_001693,XR_002 | **ATP6V1B2** | ATPase H+ transporting | protein_coding | 57 | 56 | 58 | 57 | 0.982 |
| 527 | NM_001198569,NM | **ATP6V0C** | ATPase H+ transporting | protein_coding | 177 | 200 | 178 | 201 | 1.126 |
| 528 | NM_001695 | **ATP6V1C1** | ATPase H+ transporting | protein_coding | 39 | 34 | 40 | 35 | 0.878 |
| 529 | NM_001039366,NM | **ATP6V1E1** | ATPase H+ transporting | protein_coding | 124 | 130 | 125 | 131 | 1.045 |
| 533 | NM_001039457,NM | **ATP6V0B** | ATPase H+ transporting | protein_coding | 203 | 220 | 204 | 221 | 1.086 |
| 534 | NM_001204078,NM | **ATP6V1G2** | ATPase H+ transporting | protein_coding | 4 | 3 | 5 | 4 | 0.804 |
| 535 | NM_001130020,NM | **ATP6V0A1** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 537 | NM_001183,XM_01 | **ATP6AP1** | ATPase H+ transporting | protein_coding | 39 | 44 | 40 | 45 | 1.125 |
| 538 | NM_000052,NM_00 | **ATP7A** | ATPase copper transport | protein_coding | 7 | 5 | 8 | 6 | 0.706 |
| 539 | NM_001697 | **ATP5PO** | ATP synthase peripheral | protein_coding | 538 | 541 | 539 | 542 | 1.005 |
| 540 | NM_000053,NM_00 | **ATP7B** | ATPase copper transport | protein_coding | 0 | 0 | 1 | 1 | 0.913 |
| 541 | gene-ALDH7A1P1 | **ALDH7A1P1** | aldehyde dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 543 | gene-ALDH7A1P3 | **ALDH7A1P3** | aldehyde dehydrogenas | pseudogene | 1 | 0 | 2 | 1 | 0.538 |
| 544 | gene-ALDH7A1P4 | **ALDH7A1P4** | aldehyde dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 545 | NM_001184,NM_00 | **ATR** | ATR serine/threonine kin | protein_coding | 21 | 20 | 22 | 21 | 0.952 |
| 546 | NM_000489,NM_13 | **ATRX** | ATRX chromatin remode | protein_coding | 19 | 14 | 20 | 15 | 0.745 |
| 547 | NM_001244008,NM | **KIF1A** | kinesin family member 1 | protein_coding | 0 | 0 | 1 | 1 | 0.874 |
| 549 | NM_001306190,NM | **AUH** | AU RNA binding methylg | protein_coding | 20 | 18 | 21 | 19 | 0.911 |
| 550 | NM_181575,NR_12 | **AUP1** | AUP1 lipid droplet regul | protein_coding | 205 | 197 | 206 | 198 | 0.964 |
| 551 | NM_000490,XM_01 | **AVP** | arginine vasopressin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 552 | NM_000706 | **AVPR1A** | arginine vasopressin rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 553 | NM_000707 | **AVPR1B** | arginine vasopressin rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 554 | NM_000054,NM_00 | **AVPR2** | arginine vasopressin rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 558 | NM_001278599,NM | **AXL** | AXL receptor tyrosine kin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 563 | NM_001185 | **AZGP1** | alpha-2-glycoprotein 1, z | protein_coding | 0 | 0 | 1 | 1 | 1.085 |
| 566 | NM_001700 | **AZU1** | azurocidin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 567 | NM_004048,XM_00 | **B2M** | beta-2-microglobulin | protein_coding | 7,900 | 7,791 | 7,901 | 7,792 | 0.986 |
| 570 | NM_001127610,NM | **BAAT** | bile acid-CoA:amino acid | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 571 | NM_001186,NM_20 | **BACH1** | BTB domain and CNC h | protein_coding | 11 | 8 | 12 | 9 | 0.801 |
| 572 | NM_004322,NM_03 | **BAD** | BCL2 associated agonist | protein_coding | 49 | 52 | 50 | 53 | 1.047 |
| 573 | NM_001172415,NM | **BAG1** | BAG cochaperone 1 | protein_coding | 65 | 69 | 66 | 70 | 1.058 |
| 575 | NM_001702,XM_01 | **ADGRB1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 576 | NM_001294335,NM | **ADGRB2** | adhesion G protein-coup | protein_coding | 3 | 3 | 4 | 4 | 0.921 |
| 577 | NM_001704 | **ADGRB3** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 578 | NM_001188,XM_01 | **BAK1** | BCL2 antagonist/killer 1 | protein_coding | 117 | 129 | 118 | 130 | 1.103 |
| 579 | NM_001189 | **NKX3-2** | NK3 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 580 | NM_000465,NM_00 | **BARD1** | BRCA1 associated RING | protein_coding | 51 | 42 | 52 | 43 | 0.830 |
| 581 | NM_001291428,NM | **BAX** | BCL2 associated X, apo | protein_coding | 110 | 125 | 111 | 126 | 1.136 |
| 582 | NM_024649 | **BBS1** | Bardet-Biedl syndrome 1 | protein_coding | 5 | 5 | 6 | 6 | 0.959 |
| 583 | NM_001377456,NM | **BBS2** | Bardet-Biedl syndrome 2 | protein_coding | 4 | 4 | 5 | 5 | 0.908 |
| 585 | NM_001252678,NM | **BBS4** | Bardet-Biedl syndrome 4 | protein_coding | 16 | 17 | 17 | 18 | 1.061 |
| 586 | NM_001178091,NM | **BCAT1** | branched chain amino ac | protein_coding | 22 | 16 | 23 | 17 | 0.765 |
| 587 | NM_001164773,NM | **BCAT2** | branched chain amino ac | protein_coding | 49 | 49 | 50 | 50 | 0.993 |
| 590 | NM_000055,NR_13 | **BCHE** | butyrylcholinesterase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 593 | NM_000709,NM_00 | **BCKDHA** | branched chain keto acic | protein_coding | 57 | 63 | 58 | 64 | 1.115 |
| 594 | NM_000056,NM_00 | **BCKDHB** | branched chain keto acic | protein_coding | 16 | 17 | 17 | 18 | 1.032 |
| 595 | NM_053056 | **CCND1** | cyclin D1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 596 | NM_000633,NM_00 | **BCL2** | BCL2 apoptosis regulato | protein_coding | 61 | 53 | 62 | 54 | 0.875 |
| 597 | NM_001114735,NM | **BCL2A1** | BCL2 related protein A1 | protein_coding | 3 | 2 | 4 | 3 | 0.876 |
| 598 | NM_001191,NM_00 | **BCL2L1** | BCL2 like 1 | protein_coding | 141 | 139 | 142 | 140 | 0.987 |
| 599 | NM_001199839,NM | **BCL2L2** | BCL2 like 2 | protein_coding | 14 | 15 | 15 | 16 | 1.014 |
| 600 | gene-BAK1P1 | **BAK1P1** | BCL2 antagonist/killer 1 | pseudogene | 8 | 10 | 9 | 11 | 1.184 |
| 601 | gene-BAK1P2 | **BAK1P2** | BCL2 antagonist/killer 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 602 | NM_005178,XM_01 | **BCL3** | BCL3 transcription coact | protein_coding | 65 | 66 | 66 | 67 | 1.016 |
| 604 | NM_001130845,NM | **BCL6** | BCL6 transcription repre | protein_coding | 1 | 1 | 2 | 2 | 1.326 |
| 605 | NM_001024808,NM | **BCL7A** | BAF chromatin remodelir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 606 | NR_027992 | **NBEAP1** | neurobeachin pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 607 | NM_004326,XM_00 | **BCL9** | BCL9 transcription coact | protein_coding | 16 | 16 | 17 | 17 | 0.977 |
| 608 | NM_001192 | **TNFRSF17** | TNF receptor superfamil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 610 | NM_001194 | **HCN2** | hyperpolarization activat | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 611 | NM_001708 | **OPN1SW** | opsin 1, short wave sens | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 613 | NM_004327,NM_02 | **BCR** | BCR activator of RhoGEI | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 617 | NM_001079866,NM | **BCS1L** | BCS1 homolog, ubiquinc | protein_coding | 73 | 74 | 74 | 75 | 1.012 |
| 618 | NR_001568 | **BCYRN1** | brain cytoplasmic RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.135 |
| 619 | gene-BCYRN1P1 | **BCYRN1P1** | brain cytoplasmic RNA 1 | pseudogene | 0 | 0 | 1 | 1 | 1.194 |
| 622 | NM_004051,NM_20 | **BDH1** | 3-hydroxybutyrate dehyd | protein_coding | 28 | 28 | 29 | 29 | 0.995 |
| 623 | NM_000710 | **BDKRB1** | bradykinin receptor B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 624 | NM_000623,NM_00 | **BDKRB2** | bradykinin receptor B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 627 | NM_001143805,NM | **BDNF** | brain derived neurotroph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 629 | NM_001710 | **CFB** | complement factor B | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 631 | NM_001161705,NM | **BFSP1** | beaded filament structur | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 632 | NM_199173 | **BGLAP** | bone gamma-carboxyglu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 633 | NM_001711,XM_01 | **BGN** | biglycan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 634 | NM_001024912,NM | **CEACAM1** | CEA cell adhesion molec | protein_coding | 207 | 170 | 208 | 171 | 0.822 |
| 635 | NM_001713 | **BHMT** | betaine--homocysteine S | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 636 | NM_001003398,NM | **BICD1** | BICD cargo adaptor 1 | protein_coding | 9 | 7 | 10 | 8 | 0.811 |
| 637 | NM_001196,NM_00 | **BID** | BH3 interacting domain d | protein_coding | 82 | 81 | 83 | 82 | 0.995 |
| 638 | NM_001197 | **BIK** | BCL2 interacting killer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 639 | NM_001198,NM_18 | **PRDM1** | PR/SET domain 1 | protein_coding | 39 | 40 | 40 | 41 | 1.011 |
| 640 | NM_001330465,NM | **BLK** | BLK proto-oncogene, Sr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641 | NM_000057,NM_00 | **BLM** | BLM RecQ like helicase | protein_coding | 43 | 36 | 44 | 37 | 0.840 |
| 642 | NM_000386 | **BLMH** | bleomycin hydrolase | protein_coding | 191 | 177 | 192 | 178 | 0.925 |
| 643 | NM_001716,NM_03 | **CXCR5** | C-X-C motif chemokine r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644 | NM_000712,NM_00 | **BLVRA** | biliverdin reductase A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645 | NM_000713 | **BLVRB** | biliverdin reductase B | protein_coding | 0 | 1 | 1 | 2 | 1.158 |
| 646 | NM_001301206,NM | **BNC1** | basonuclin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 648 | NM_005180 | **BMI1** | BMI1 proto-oncogene, p | protein_coding | 22 | 17 | 23 | 18 | 0.787 |
| 649 | NM_001199,NM_00 | **BMP1** | bone morphogenetic pro | protein_coding | 3 | 2 | 4 | 3 | 0.786 |
| 650 | NM_001200 | **BMP2** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 651 | NM_001201,XM_00 | **BMP3** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 652 | NM_001202,NM_00 | **BMP4** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653 | NM_001329754,NM | **BMP5** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654 | NM_001718 | **BMP6** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 655 | NM_001719 | **BMP7** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 656 | NM_001720,XM_00 | **BMP8B** | bone morphogenetic pro | protein_coding | 1 | 1 | 2 | 2 | 1.193 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 657 | NM_004329,XM_01 | **BMPR1A** | bone morphogenetic pro | protein_coding | 5 | 5 | 6 | 6 | 1.005 |
| 658 | NM_001203,NM_00 | **BMPR1B** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 659 | NM_001204,XM_01 | **BMPR2** | bone morphogenetic pro | protein_coding | 2 | 1 | 3 | 2 | 0.819 |
| 660 | NM_001320866,NM | **BMX** | BMX non-receptor tyrosir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 661 | NM_001722,XR_94 | **POLR3D** | RNA polymerase III subu | protein_coding | 19 | 19 | 20 | 20 | 0.986 |
| 662 | NM_001205,NM_01 | **BNIP1** | BCL2 interacting protein | protein_coding | 30 | 29 | 31 | 30 | 0.952 |
| 663 | NM_001320674,NM | **BNIP2** | BCL2 interacting protein | protein_coding | 50 | 46 | 51 | 47 | 0.906 |
| 664 | NM_004052 | **BNIP3** | BCL2 interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 665 | NM_001330491,NM | **BNIP3L** | BCL2 interacting protein | protein_coding | 5 | 5 | 6 | 6 | 0.999 |
| 666 | NM_032515,XM_01 | **BOK** | BCL2 family apoptosis re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 667 | NM_001144769,NM | **DST** | dystonin | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 668 | NM_023067 | **FOXL2** | forkhead box L2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 669 | NM_001293085,NM | **BPGM** | bisphosphoglycerate mu | protein_coding | 37 | 35 | 38 | 36 | 0.940 |
| 670 | NM_001302777,NM | **BPHL** | biphenyl hydrolase like | protein_coding | 2 | 2 | 3 | 3 | 0.929 |
| 671 | NM_001725,XM_02 | **BPI** | bactericidal permeability | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 672 | NM_007294,NM_00 | **BRCA1** | BRCA1 DNA repair asso | protein_coding | 50 | 45 | 51 | 46 | 0.903 |
| 673 | NM_001354609,NM | **BRAF** | B-Raf proto-oncogene, s | protein_coding | 16 | 13 | 17 | 14 | 0.834 |
| 675 | NM_000059 | **BRCA2** | BRCA2 DNA repair asso | protein_coding | 16 | 12 | 17 | 13 | 0.756 |
| 676 | NM_001242805,NM | **BRDT** | bromodomain testis assc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 677 | NM_001244698,NM | **ZFP36L1** | ZFP36 ring finger protein | protein_coding | 32 | 30 | 33 | 31 | 0.934 |
| 678 | NM_006887 | **ZFP36L2** | ZFP36 ring finger protein | protein_coding | 67 | 63 | 68 | 64 | 0.938 |
| 680 | NM_001727 | **BRS3** | bombesin receptor subty | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 682 | NM_001322243,NM | **BSG** | basigin (Ok blood group) | protein_coding | 335 | 350 | 336 | 351 | 1.044 |
| 683 | NM_004334,XM_00 | **BST1** | bone marrow stromal cel | protein_coding | 0 | 0 | 1 | 1 | 1.091 |
| 684 | NM_004335 | **BST2** | bone marrow stromal cel | protein_coding | 549 | 564 | 550 | 565 | 1.027 |
| 685 | NM_001316963,NM | **BTC** | betacellulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 686 | NM_001281723,NM | **BTD** | biotinidase | protein_coding | 1 | 1 | 2 | 2 | 1.176 |
| 687 | NM_001206 | **KLF9** | Kruppel like factor 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 688 | NM_001286818,NM | **KLF5** | Kruppel like factor 5 | protein_coding | 0 | 0 | 1 | 1 | 1.227 |
| 689 | NM_001037637,NM | **BTF3** | basic transcription factor | protein_coding | 1,183 | 1,192 | 1,184 | 1,193 | 1.008 |
| 690 | NR_026983 | **BTF3P11** | basic transcription factor | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 693 | gene-BTF3P1 | **BTF3P1** | BTF3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 694 | NM_001731 | **BTG1** | BTG anti-proliferation fac | protein_coding | 8 | 7 | 9 | 8 | 0.881 |
| 695 | NM_000061,NM_00 | **BTK** | Bruton tyrosine kinase | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 696 | NM_001732 | **BTN1A1** | butyrophilin subfamily 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 699 | NM_001278616,NM | **BUB1** | BUB1 mitotic checkpoint | protein_coding | 182 | 139 | 183 | 140 | 0.764 |
| 701 | NM_001211 | **BUB1B** | BUB1 mitotic checkpoint | protein_coding | 162 | 137 | 163 | 138 | 0.847 |
| 705 | NM_004053 | **BYSL** | bystin like | protein_coding | 138 | 145 | 139 | 146 | 1.049 |
| 706 | NM_000714,NM_00 | **TSPO** | translocator protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 708 | NM_001212 | **C1QBP** | complement C1q bindin | protein_coding | 318 | 331 | 319 | 332 | 1.043 |
| 710 | NM_000062,NM_00 | **SERPING1** | serpin family G member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 711 | NR_024615 | **ERC2-IT1** | ERC2 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 712 | NM_001347465,NM | **C1QA** | complement C1q A chair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 713 | NM_000491,NM_00 | **C1QB** | complement C1q B chair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 714 | NM_001114101,NM | **C1QC** | complement C1q C chair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 715 | NM_001354346,NM | **C1R** | complement C1r | protein_coding | 2 | 3 | 3 | 4 | 1.259 |
| 716 | NM_001346850,NM | **C1S** | complement C1s | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 717 | NM_000063,NM_00 | **C2** | complement C2 | protein_coding | 1 | 0 | 2 | 1 | 0.685 |
| 718 | NM_000064 | **C3** | complement C3 | protein_coding | 1 | 0 | 2 | 1 | 0.899 |
| 719 | NM_001326475,NM | **C3AR1** | complement C3a recepto | protein_coding | 4 | 3 | 5 | 4 | 0.851 |
| 720 | NM_001252204,NM | **C4A** | complement C4A (Rodge | protein_coding | 0 | 0 | 1 | 1 | 1.103 |
| 721 | NM_001002029 | **C4B** | complement C4B (Chido | protein_coding | 0 | 0 | 1 | 1 | 1.106 |
| 722 | NM_000715,XM_00 | **C4BPA** | complement component | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 725 | NM_000716,NM_00 | **C4BPB** | complement component | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 726 | NM_004055,XM_01 | **CAPN5** | calpain 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727 | NM_001317163,NM | **C5** | complement C5 | protein_coding | 1 | 1 | 2 | 2 | 0.933 |
| 728 | NM_001736,XM_00 | **C5AR1** | complement C5a recepto | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 729 | NM_000065,NM_00 | **C6** | complement C6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730 | NM_000587 | **C7** | complement C7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 731 | NM_000562,XM_01 | **C8A** | complement C8 alpha ch | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 732 | NM_000066,NM_00 | **C8B** | complement C8 beta cha | protein_coding | 2 | 2 | 3 | 3 | 0.903 |
| 733 | NM_000606,XR_24 | **C8G** | complement C8 gamma | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 734 | NM_001126111,NM | **OSGIN2** | oxidative stress induced | protein_coding | 38 | 34 | 39 | 35 | 0.906 |
| 735 | NM_001737 | **C9** | complement C9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 738 | NM_013265,NR_07 | **VPS51** | VPS51 subunit of GARP | protein_coding | 59 | 66 | 60 | 67 | 1.125 |
| 740 | NM_004927,NR_03 | **MRPL49** | mitochondrial ribosomal | protein_coding | 138 | 137 | 139 | 138 | 0.993 |
| 741 | NM_014205 | **ZNHIT2** | zinc finger HIT-type cont | protein_coding | 9 | 10 | 10 | 11 | 1.152 |
| 744 | NM_001145399,NM | **MPPED2** | metallophosphoesterase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 745 | NM_001127392,NM | **MYRF** | myelin regulatory factor | protein_coding | 3 | 4 | 4 | 5 | 1.304 |
| 746 | NM_014206 | **TMEM258** | transmembrane protein 2 | protein_coding | 181 | 177 | 182 | 178 | 0.978 |
| 747 | NM_006133,XM_01 | **DAGLA** | diacylglycerol lipase alpl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 750 | NR_122031 | **GAS8-AS1** | GAS8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 752 | NM_005892,XM_00 | **FMNL1** | formin like 1 | protein_coding | 118 | 115 | 119 | 116 | 0.974 |
| 753 | NM_001003674,NM | **LDLRAD4** | low density lipoprotein re | protein_coding | 6 | 3 | 7 | 4 | 0.580 |
| 754 | NM_001286822,NM | **PTTG1IP** | PTTG1 interacting protei | protein_coding | 62 | 61 | 63 | 62 | 0.982 |
| 755 | NM_001271440,NM | **CFAP410** | cilia and flagella associa | protein_coding | 8 | 9 | 9 | 10 | 1.109 |
| 757 | NM_006134,NR_04 | **TMEM50B** | transmembrane protein 5 | protein_coding | 31 | 31 | 32 | 32 | 1.014 |
| 758 | NM_001044370,NM | **MPPED1** | metallophosphoesterase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 759 | NM_001128829,NM | **CA1** | carbonic anhydrase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 760 | NM_000067,NM_00 | **CA2** | carbonic anhydrase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 761 | NM_005181 | **CA3** | carbonic anhydrase 3 | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 762 | NM_000717,NR_13 | **CA4** | carbonic anhydrase 4 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 763 | NM_001367225,NM | **CA5A** | carbonic anhydrase 5A | protein_coding | 0 | 0 | 1 | 1 | 0.927 |
| 764 | gene-CA5AP1 | **CA5AP1** | carbonic anhydrase 5A p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 765 | NM_001215,NM_00 | **CA6** | carbonic anhydrase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.123 |
| 766 | NM_001014435,NM | **CA7** | carbonic anhydrase 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 767 | NM_001321837,NM | **CA8** | carbonic anhydrase 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 768 | NM_001216,XR_00 | **CA9** | carbonic anhydrase 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 770 | NM_001217,NR_13 | **CA11** | carbonic anhydrase 11 | protein_coding | 3 | 4 | 4 | 5 | 1.309 |
| 771 | NM_001218,NM_00 | **CA12** | carbonic anhydrase 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 773 | NM_000068,NM_00 | **CACNA1A** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 774 | NM_000718,NM_00 | **CACNA1B** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 775 | NM_000719,NM_00 | **CACNA1C** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 776 | NM_000720,NM_00 | **CACNA1D** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 777 | NM_000721,NM_00 | **CACNA1E** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 778 | NM_001256789,NM | **CACNA1F** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 779 | NM_000069,XM_00 | **CACNA1S** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.048 |
| 780 | NM_001202521,NM | **DDR1** | discoidin domain recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 781 | NM_000722,NM_00 | **CACNA2D1** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 782 | NM_000723,NM_19 | **CACNB1** | calcium voltage-gated ch | protein_coding | 13 | 12 | 14 | 13 | 0.939 |
| 783 | NM_000724,NM_00 | **CACNB2** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 784 | NM_000725,NM_00 | **CACNB3** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 785 | NM_000726,NM_00 | **CACNB4** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 786 | NM_000727 | **CACNG1** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 788 | NM_000387 | **SLC25A20** | solute carrier family 25 m | protein_coding | 73 | 66 | 74 | 67 | 0.909 |
| 789 | gene-SLC25A20P1 | **SLC25A20P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 790 | NM_001306079,NM | **CAD** | carbamoyl-phosphate sy | protein_coding | 53 | 55 | 54 | 56 | 1.041 |
| 793 | NM_001366795,NM | **CALB1** | calbindin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 794 | NM_001740,NM_00 | **CALB2** | calbindin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 795 | NM_004057,XM_01 | **S100G** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 796 | NM_001033952,NM | **CALCA** | calcitonin related polype | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 797 | NM_000728 | **CALCB** | calcitonin related polype | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 799 | NM_001164737,NM | **CALCR** | calcitonin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 800 | NM_004342,NM_03 | **CALD1** | caldesmon 1 | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 801 | NM_001363669,NM | **CALM1** | calmodulin 1 | protein_coding | 261 | 268 | 262 | 269 | 1.027 |
| 802 | gene-CALM1P1 | **CALM1P1** | calmodulin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 804 | gene-CALM1P2 | **CALM1P2** | calmodulin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 805 | NM_001305624,NM | **CALM2** | calmodulin 2 | protein_coding | 815 | 783 | 816 | 784 | 0.960 |
| 806 | gene-CALM2P2 | **CALM2P2** | calmodulin 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 807 | gene-CALM2P3 | **CALM2P3** | calmodulin 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 0.902 |
| 808 | NM_001329921,NM | **CALM3** | calmodulin 3 | protein_coding | 560 | 589 | 561 | 590 | 1.051 |
| 810 | NM_005185 | **CALML3** | calmodulin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 811 | NM_004343 | **CALR** | calreticulin | protein_coding | 1,468 | 1,621 | 1,469 | 1,622 | 1.104 |
| 813 | NM_001130674,NM | **CALU** | calumenin | protein_coding | 101 | 88 | 102 | 89 | 0.872 |
| 814 | NM_001323374,NM | **CAMK4** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 815 | NM_001363989,NM | **CAMK2A** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 816 | NM_001220,NM_00 | **CAMK2B** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 817 | NM_001221,NM_00 | **CAMK2D** | calcium/calmodulin depe | protein_coding | 6 | 6 | 7 | 7 | 0.972 |
| 818 | NM_001204492,NM | **CAMK2G** | calcium/calmodulin depe | protein_coding | 17 | 16 | 18 | 17 | 0.922 |
| 819 | NM_001745 | **CAMLG** | calcium modulating ligan | protein_coding | 42 | 41 | 43 | 42 | 0.958 |
| 820 | NM_004345 | **CAMP** | cathelicidin antimicrobial | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 821 | NM_001024649,NM | **CANX** | calnexin | protein_coding | 518 | 478 | 519 | 479 | 0.923 |
| 822 | NM_001256139,NM | **CAPG** | capping actin protein, ge | protein_coding | 2 | 2 | 3 | 3 | 0.934 |
| 823 | NM_001198868,NM | **CAPN1** | calpain 1 | protein_coding | 44 | 42 | 45 | 43 | 0.959 |
| 824 | NM_001146068,NM | **CAPN2** | calpain 2 | protein_coding | 184 | 156 | 185 | 157 | 0.848 |
| 825 | NM_000070,NM_02 | **CAPN3** | calpain 3 | protein_coding | 31 | 35 | 32 | 36 | 1.095 |
| 826 | NM_001003962,NM | **CAPNS1** | calpain small subunit 1 | protein_coding | 224 | 242 | 225 | 243 | 1.081 |
| 827 | NM_014289 | **CAPN6** | calpain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 828 | NM_004058,NM_08 | **CAPS** | calcyphosine | protein_coding | 1 | 1 | 2 | 2 | 0.924 |
| 829 | NM_006135,XM_01 | **CAPZA1** | capping actin protein of | protein_coding | 418 | 394 | 419 | 395 | 0.941 |
| 830 | NM_006136 | **CAPZA2** | capping actin protein of | protein_coding | 73 | 64 | 74 | 65 | 0.880 |
| 831 | NM_001042440,NM | **CAST** | calpastatin | protein_coding | 64 | 61 | 65 | 62 | 0.946 |
| 832 | NM_001206540,NM | **CAPZB** | capping actin protein of | protein_coding | 292 | 294 | 293 | 295 | 1.007 |
| 833 | NM_001014437,NM | **CARS1** | cysteinyl-tRNA synthetas | protein_coding | 60 | 51 | 61 | 52 | 0.855 |
| 834 | NM_001223,NM_00 | **CASP1** | caspase 1 | protein_coding | 74 | 68 | 75 | 69 | 0.925 |
| 835 | NM_001224,NM_03 | **CASP2** | caspase 2 | protein_coding | 53 | 52 | 54 | 53 | 0.975 |
| 836 | NM_001354777,NM | **CASP3** | caspase 3 | protein_coding | 142 | 131 | 143 | 132 | 0.925 |
| 837 | NM_001225,NM_03 | **CASP4** | caspase 4 | protein_coding | 133 | 122 | 134 | 123 | 0.915 |
| 838 | NM_001136109,NM | **CASP5** | caspase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 839 | NM_001226,NM_03 | **CASP6** | caspase 6 | protein_coding | 1 | 0 | 2 | 1 | 0.728 |
| 840 | NM_001227,NM_00 | **CASP7** | caspase 7 | protein_coding | 66 | 62 | 67 | 63 | 0.932 |
| 841 | NM_001080124,NM | **CASP8** | caspase 8 | protein_coding | 77 | 76 | 78 | 77 | 0.986 |
| 842 | NM_001229,NM_00 | **CASP9** | caspase 9 | protein_coding | 11 | 11 | 12 | 12 | 1.030 |
| 843 | NM_001206524,NM | **CASP10** | caspase 10 | protein_coding | 17 | 15 | 18 | 16 | 0.884 |
| 844 | NM_001231 | **CASQ1** | calsequestrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 845 | NM_001232 | **CASQ2** | calsequestrin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 846 | NM_000388,NM_00 | **CASR** | calcium sensing recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 847 | NM_001752 | **CAT** | catalase | protein_coding | 47 | 47 | 48 | 48 | 1.009 |
| 857 | NM_001172895,NM | **CAV1** | caveolin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 858 | NM_001206747,NM | **CAV2** | caveolin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 859 | NM_001234,NM_03 | **CAV3** | caveolin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 860 | NM_001015051,NM | **RUNX2** | RUNX family transcriptio | protein_coding | 1 | 1 | 2 | 2 | 0.732 |
| 861 | NM_001001890,NM | **RUNX1** | RUNX family transcriptio | protein_coding | 45 | 42 | 46 | 43 | 0.921 |
| 862 | NM_001198625,NM | **RUNX1T1** | RUNX1 partner transcrip | protein_coding | 1 | 1 | 2 | 2 | 0.773 |
| 863 | NM_005187,NM_17 | **CBFA2T3** | CBFA2/RUNX1 partner tr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 864 | NM_001031680,NM | **RUNX3** | RUNX family transcriptio | protein_coding | 115 | 110 | 116 | 111 | 0.962 |
| 865 | NM_001368707,NM | **CBFB** | core-binding factor subu | protein_coding | 218 | 200 | 219 | 201 | 0.916 |
| 866 | NM_001756 | **SERPINA6** | serpin family A member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 867 | NM_005188 | **CBL** | Cbl proto-oncogene | protein_coding | 42 | 33 | 43 | 34 | 0.781 |
| 868 | NM_001321786,NM | **CBLB** | Cbl proto-oncogene B | protein_coding | 18 | 19 | 19 | 20 | 1.040 |
| 869 | NM_004352 | **CBLN1** | cerebellin 1 precursor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 871 | NM_001207014,NM | **SERPINH1** | serpin family H member | protein_coding | 1 | 0 | 2 | 1 | 0.982 |
| 873 | NM_001286789,NM | **CBR1** | carbonyl reductase 1 | protein_coding | 47 | 52 | 48 | 53 | 1.097 |
| 874 | NM_001236,XM_01 | **CBR3** | carbonyl reductase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 875 | NM_000071,NM_00 | **CBS** | cystathionine beta-synth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 881 | NM_005893 | **CCIN** | calicin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 883 | NM_001122671,NM | **KYAT1** | kynurenine aminotransfe | protein_coding | 12 | 11 | 13 | 12 | 0.931 |
| 885 | NM_000729,NM_00 | **CCK** | cholecystokinin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 886 | NM_000730 | **CCKAR** | cholecystokinin A recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 887 | NM_001318029,NM | **CCKBR** | cholecystokinin B recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 889 | NM_001013406,NM | **KRIT1** | KRIT1 ankyrin repeat cor | protein_coding | 26 | 24 | 27 | 25 | 0.942 |
| 890 | NM_001237 | **CCNA2** | cyclin A2 | protein_coding | 169 | 157 | 170 | 158 | 0.931 |
| 891 | NM_001354844,NM | **CCNB1** | cyclin B1 | protein_coding | 239 | 227 | 240 | 228 | 0.950 |
| 892 | NM_001013399,NM | **CCNC** | cyclin C | protein_coding | 90 | 74 | 91 | 75 | 0.827 |
| 894 | NM_001759 | **CCND2** | cyclin D2 | protein_coding | 178 | 171 | 179 | 172 | 0.957 |
| 895 | gene-CCND2P1 | **CCND2P1** | cyclin D2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 896 | NM_001136017,NM | **CCND3** | cyclin D3 | protein_coding | 275 | 294 | 276 | 295 | 1.068 |
| 897 | gene-CCND3P1 | **CCND3P1** | cyclin D3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.867 |
| 898 | NM_001238,NM_00 | **CCNE1** | cyclin E1 | protein_coding | 10 | 10 | 11 | 11 | 1.051 |
| 899 | NM_001323538,NM | **CCNF** | cyclin F | protein_coding | 58 | 59 | 59 | 60 | 1.012 |
| 900 | NM_001364015,NM | **CCNG1** | cyclin G1 | protein_coding | 56 | 45 | 57 | 46 | 0.800 |
| 901 | NM_004354,XM_01 | **CCNG2** | cyclin G2 | protein_coding | 1 | 1 | 2 | 2 | 0.921 |
| 902 | NM_001199189,NM | **CCNH** | cyclin H | protein_coding | 62 | 55 | 63 | 56 | 0.889 |
| 904 | NM_001240,NM_00 | **CCNT1** | cyclin T1 | protein_coding | 32 | 26 | 33 | 27 | 0.827 |
| 905 | NM_001241,NM_00 | **CCNT2** | cyclin T2 | protein_coding | 22 | 17 | 23 | 18 | 0.791 |
| 908 | NM_001009186,NM | **CCT6A** | chaperonin containing T( | protein_coding | 317 | 294 | 318 | 295 | 0.928 |
| 909 | NM_001320652,NM | **CD1A** | CD1a molecule | protein_coding | 1 | 0 | 2 | 1 | 0.895 |
| 910 | NM_001764,XM_01 | **CD1B** | CD1b molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 911 | NM_001765,XM_00 | **CD1C** | CD1c molecule | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 912 | NM_001319145,NM | **CD1D** | CD1d molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 913 | NM_001042583,NM | **CD1E** | CD1e molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 914 | NM_001328609,NM | **CD2** | CD2 molecule | protein_coding | 56 | 49 | 57 | 50 | 0.872 |
| 915 | NM_000732,NM_00 | **CD3D** | CD3d molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 916 | NM_000733 | **CD3E** | CD3e molecule | protein_coding | 673 | 698 | 674 | 699 | 1.037 |
| 917 | NM_000073,XM_00 | **CD3G** | CD3g molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 919 | NM_000734,NM_00 | **CD247** | CD247 molecule | protein_coding | 205 | 216 | 206 | 217 | 1.050 |
| 920 | NM_000616,NM_00 | **CD4** | CD4 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 921 | NM_001346456,NM | **CD5** | CD5 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 922 | NM_001347698,NM | **CD5L** | CD5 molecule like | protein_coding | 1 | 1 | 2 | 2 | 1.059 |
| 923 | NM_001254750,NM | **CD6** | CD6 molecule | protein_coding | 9 | 7 | 10 | 8 | 0.824 |
| 924 | NM_006137,XM_01 | **CD7** | CD7 molecule | protein_coding | 12 | 14 | 13 | 15 | 1.151 |
| 925 | NM_001145873,NM | **CD8A** | CD8a molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 926 | NM_001178100,NM | **CD8B** | CD8b molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 927 | NM_001349727,NM | **CD8B2** | CD8b2 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 928 | NM_001330312,NM | **CD9** | CD9 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 929 | NM_000591,NM_00 | **CD14** | CD14 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.191 |
| 930 | NM_001178098,NM | **CD19** | CD19 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 931 | NM_021950,NM_15 | **MS4A1** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 932 | NM_001031666,NM | **MS4A3** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 933 | NM_001185099,NM | **CD22** | CD22 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 935 | gene-CD24P1 | **CD24P1** | CD24 molecule pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 936 | gene-CD24P2 | **CD24P2** | CD24 molecule pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 938 | gene-CD24P4 | **CD24P4** | CD24 molecule pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 939 | NM_001242,XM_01 | **CD27** | CD27 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 940 | NM_001243077,NM | **CD28** | CD28 molecule | protein_coding | 21 | 18 | 22 | 19 | 0.858 |
| 941 | NM_005191 | **CD80** | CD80 molecule | protein_coding | 3 | 2 | 4 | 3 | 0.810 |
| 942 | NM_001206924,NM | **CD86** | CD86 molecule | protein_coding | 15 | 16 | 16 | 17 | 1.054 |
| 943 | NM_001243,NM_00 | **TNFRSF8** | TNF receptor superfamil | protein_coding | 44 | 46 | 45 | 47 | 1.038 |
| 944 | NM_001244,NM_00 | **TNFSF8** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 945 | NM_001082618,NM | **CD33** | CD33 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 946 | NM_001177547,NM | **SIGLEC6** | sialic acid binding Ig like | protein_coding | 31 | 24 | 32 | 25 | 0.769 |
| 947 | NM_001025109,NM | **CD34** | CD34 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 948 | NM_000072,NM_00 | **CD36** | CD36 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 949 | NM_001082959,NM | **SCARB1** | scavenger receptor class | protein_coding | 27 | 29 | 28 | 30 | 1.070 |
| 950 | NM_001204255,NM | **SCARB2** | scavenger receptor class | protein_coding | 15 | 13 | 16 | 14 | 0.904 |
| 951 | NM_001040031,NM | **CD37** | CD37 molecule | protein_coding | 56 | 63 | 57 | 64 | 1.117 |
| 952 | NM_001775,NR_13 | **CD38** | CD38 molecule | protein_coding | 94 | 68 | 95 | 69 | 0.726 |
| 953 | NM_001098175,NM | **ENTPD1** | ectonucleoside triphosph | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 954 | NM_001246,NM_20 | **ENTPD2** | ectonucleoside triphosph | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 955 | NM_001114089,NM | **ENTPD6** | ectonucleoside triphosph | protein_coding | 40 | 45 | 41 | 46 | 1.116 |
| 956 | NM_001248,NM_00 | **ENTPD3** | ectonucleoside triphosph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 957 | NM_001249,NM_00 | **ENTPD5** | ectonucleoside triphosph | protein_coding | 7 | 7 | 8 | 8 | 0.996 |
| 958 | NM_001250,NM_00 | **CD40** | CD40 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 959 | NM_000074 | **CD40LG** | CD40 ligand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 960 | NM_000610,NM_00 | **CD44** | CD44 molecule (Indian b | protein_coding | 90 | 84 | 91 | 85 | 0.940 |
| 961 | NM_001382306,NM | **CD47** | CD47 molecule | protein_coding | 61 | 55 | 62 | 56 | 0.909 |
| 962 | NM_001256030,NM | **CD48** | CD48 molecule | protein_coding | 659 | 604 | 660 | 605 | 0.916 |
| 963 | NM_000560,NM_00 | **CD53** | CD53 molecule | protein_coding | 475 | 488 | 476 | 489 | 1.026 |
| 965 | NM_001144822,NM | **CD58** | CD58 molecule | protein_coding | 24 | 22 | 25 | 23 | 0.925 |
| 966 | NM_000611,NM_00 | **CD59** | CD59 molecule (CD59 bl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 967 | NM_001257389,NM | **CD63** | CD63 molecule | protein_coding | 377 | 376 | 378 | 377 | 0.998 |
| 968 | NM_001040059,NM | **CD68** | CD68 molecule | protein_coding | 5 | 8 | 6 | 9 | 1.415 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 969 | NM_001781 | **CD69** | CD69 molecule | protein_coding | 9 | 7 | 10 | 8 | 0.875 |
| 970 | NM_001252,NM_00 | **CD70** | CD70 molecule | protein_coding | 0 | 1 | 1 | 2 | 1.202 |
| 971 | NM_001782,XM_00 | **CD72** | CD72 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.899 |
| 972 | NM_001025158,NM | **CD74** | CD74 molecule | protein_coding | 70 | 71 | 71 | 72 | 1.019 |
| 973 | NM_001783,NM_02 | **CD79A** | CD79a molecule | protein_coding | 1 | 1 | 2 | 2 | 0.933 |
| 974 | NM_000626,NM_00 | **CD79B** | CD79b molecule | protein_coding | 0 | 0 | 1 | 1 | 0.929 |
| 975 | NM_001297649,NM | **CD81** | CD81 molecule | protein_coding | 294 | 308 | 295 | 309 | 1.049 |
| 976 | NM_001025160,NM | **ADGRE5** | adhesion G protein-coup | protein_coding | 144 | 151 | 145 | 152 | 1.044 |
| 977 | NM_001039490,NM | **CD151** | CD151 molecule (Raph b | protein_coding | 37 | 42 | 38 | 43 | 1.129 |
| 978 | NM_001785 | **CDA** | cytidine deaminase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 983 | NM_001170406,NM | **CDK1** | cyclin dependent kinase | protein_coding | 151 | 134 | 152 | 135 | 0.887 |
| 984 | NM_001291345,NM | **CDK11B** | cyclin dependent kinase | protein_coding | 77 | 85 | 78 | 86 | 1.091 |
| 987 | NM_001199282,NM | **LRBA** | LPS responsive beige-lik | protein_coding | 24 | 20 | 25 | 21 | 0.817 |
| 988 | NM_001253 | **CDC5L** | cell division cycle 5 like | protein_coding | 40 | 38 | 41 | 39 | 0.971 |
| 989 | NM_001011553,NM | **SEPTIN7** | septin 7 | protein_coding | 101 | 92 | 102 | 93 | 0.909 |
| 990 | NM_001254,XM_01 | **CDC6** | cell division cycle 6 | protein_coding | 57 | 51 | 58 | 52 | 0.900 |
| 991 | NM_001255 | **CDC20** | cell division cycle 20 | protein_coding | 343 | 338 | 344 | 339 | 0.986 |
| 993 | NM_001789,NM_20 | **CDC25A** | cell division cycle 25A | protein_coding | 99 | 100 | 100 | 101 | 1.011 |
| 994 | NM_001287516,NM | **CDC25B** | cell division cycle 25B | protein_coding | 98 | 114 | 99 | 115 | 1.158 |
| 995 | NM_001287582,NM | **CDC25C** | cell division cycle 25C | protein_coding | 21 | 19 | 22 | 20 | 0.905 |
| 996 | NM_001114091,NM | **CDC27** | cell division cycle 27 | protein_coding | 94 | 79 | 95 | 80 | 0.836 |
| 997 | NM_004359,XM_00 | **CDC34** | cell division cycle 34, ubi | protein_coding | 84 | 85 | 85 | 86 | 1.016 |
| 998 | NM_001039802,NM | **CDC42** | cell division cycle 42 | protein_coding | 97 | 92 | 98 | 93 | 0.956 |
| 999 | NM_001317184,NM | **CDH1** | cadherin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1000 | NM_001308176,NM | **CDH2** | cadherin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1001 | NM_001317195,NM | **CDH3** | cadherin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1002 | NM_001252338,NM | **CDH4** | cadherin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1003 | NM_001795,XM_01 | **CDH5** | cadherin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1004 | NM_001362435,NM | **CDH6** | cadherin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1005 | NM_001317214,NM | **CDH7** | cadherin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1006 | NM_001796,XM_00 | **CDH8** | cadherin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1007 | NM_016279 | **CDH9** | cadherin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1008 | NM_001317222,NM | **CDH10** | cadherin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1009 | NM_001308392,NM | **CDH11** | cadherin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1010 | NM_001317227,NM | **CDH12** | cadherin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1011 | gene-CDH12P2 | **CDH12P2** | cadherin 12 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1012 | NM_001220488,NM | **CDH13** | cadherin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1013 | NM_004933 | **CDH15** | cadherin 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1014 | NM_001204744,NM | **CDH16** | cadherin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1015 | NM_001144663,NM | **CDH17** | cadherin 17 | protein_coding | 74 | 69 | 75 | 70 | 0.931 |
| 1016 | NM_001167667,NM | **CDH18** | cadherin 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1017 | NM_001290230,NM | **CDK2** | cyclin dependent kinase | protein_coding | 126 | 108 | 127 | 109 | 0.858 |
| 1018 | NM_001258 | **CDK3** | cyclin dependent kinase | protein_coding | 0 | 1 | 1 | 2 | 1.429 |
| 1019 | NM_000075 | **CDK4** | cyclin dependent kinase | protein_coding | 234 | 250 | 235 | 251 | 1.067 |
| 1020 | NM_001164410,NM | **CDK5** | cyclin dependent kinase | protein_coding | 21 | 24 | 22 | 25 | 1.158 |
| 1021 | NM_001145306,NM | **CDK6** | cyclin dependent kinase | protein_coding | 94 | 80 | 95 | 81 | 0.851 |
| 1022 | NM_001324069,NM | **CDK7** | cyclin dependent kinase | protein_coding | 69 | 59 | 70 | 60 | 0.857 |
| 1024 | NM_001260,NM_00 | **CDK8** | cyclin dependent kinase | protein_coding | 35 | 32 | 36 | 33 | 0.936 |
| 1025 | NM_001261 | **CDK9** | cyclin dependent kinase | protein_coding | 61 | 53 | 62 | 54 | 0.868 |
| 1026 | NM_000389,NM_00 | **CDKN1A** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 1027 | NM_004064 | **CDKN1B** | cyclin dependent kinase | protein_coding | 34 | 29 | 35 | 30 | 0.866 |
| 1028 | NM_000076,NM_00 | **CDKN1C** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1029 | NM_000077,NM_00 | **CDKN2A** | cyclin dependent kinase | protein_coding | 351 | 403 | 352 | 404 | 1.148 |
| 1030 | NM_004936,NM_07 | **CDKN2B** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1031 | NM_001262,NM_07 | **CDKN2C** | cyclin dependent kinase | protein_coding | 69 | 71 | 70 | 72 | 1.033 |
| 1032 | NM_001800,NM_07 | **CDKN2D** | cyclin dependent kinase | protein_coding | 15 | 21 | 16 | 22 | 1.372 |
| 1033 | NM_001130851,NM | **CDKN3** | cyclin dependent kinase | protein_coding | 46 | 50 | 47 | 51 | 1.090 |
| 1036 | NM_001323565,NM | **CDO1** | cysteine dioxygenase typ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1038 | NM_004065 | **CDR1** | cerebellar degeneration r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1039 | NM_001802,XM_02 | **CDR2** | cerebellar degeneration r | protein_coding | 28 | 29 | 29 | 30 | 1.005 |
| 1040 | NM_001263,XM_00 | **CDS1** | CDP-diacylglycerol synth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1041 | NM_001264 | **CDSN** | corneodesmosin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1043 | NM_001803 | **CD52** | CD52 molecule | protein_coding | 66 | 76 | 67 | 77 | 1.140 |
| 1044 | NM_001804 | **CDX1** | caudal type homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1045 | NM_001265,NM_00 | **CDX2** | caudal type homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1046 | NM_005193 | **CDX4** | caudal type homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1047 | NM_001130675,NM | **CLGN** | calmegin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1048 | NM_001291484,NM | **CEACAM5** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1050 | NM_001285829,NM | **CEBPA** | CCAAT enhancer bindin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1051 | NM_001285878,NM | **CEBPB** | CCAAT enhancer bindin | protein_coding | 75 | 64 | 76 | 65 | 0.850 |
| 1052 | NM_005195 | **CEBPD** | CCAAT enhancer bindin | protein_coding | 3 | 2 | 4 | 3 | 0.737 |
| 1053 | NM_001805 | **CEBPE** | CCAAT enhancer bindin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1054 | NM_001252296,NM | **CEBPG** | CCAAT enhancer bindin | protein_coding | 50 | 46 | 51 | 47 | 0.912 |
| 1056 | NM_001807 | **CEL** | carboxyl ester lipase | protein_coding | 1 | 1 | 2 | 2 | 1.018 |
| 1057 | NR_001275 | **CELP** | carboxyl ester lipase pse | transcribed_pseu | 1 | 0 | 2 | 1 | 0.924 |
| 1058 | NM_001042426,NM | **CENPA** | centromere protein A | protein_coding | 41 | 35 | 42 | 36 | 0.843 |
| 1059 | NM_001810 | **CENPB** | centromere protein B | protein_coding | 50 | 54 | 51 | 55 | 1.066 |
| 1060 | NM_001362481,NM | **CENPC** | centromere protein C | protein_coding | 10 | 10 | 11 | 11 | 1.001 |
| 1061 | gene-CENPCP1 | **CENPCP1** | centromere protein C pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1062 | NM_001286734,NM | **CENPE** | centromere protein E | protein_coding | 39 | 29 | 40 | 30 | 0.758 |
| 1063 | NM_016343,XM_01 | **CENPF** | centromere protein F | protein_coding | 80 | 56 | 81 | 57 | 0.698 |
| 1066 | NM_001025194,NM | **CES1** | carboxylesterase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1068 | NM_004066 | **CETN1** | centrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1069 | NM_004344 | **CETN2** | centrin 2 | protein_coding | 30 | 33 | 31 | 34 | 1.106 |
| 1070 | NM_001297765,NM | **CETN3** | centrin 3 | protein_coding | 42 | 43 | 43 | 44 | 1.040 |
| 1071 | NM_000078,NM_00 | **CETP** | cholesteryl ester transfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1072 | NM_005507 | **CFL1** | cofilin 1 | protein_coding | 2,184 | 2,353 | 2,185 | 2,354 | 1.078 |
| 1073 | NM_001243645,NM | **CFL2** | cofilin 2 | protein_coding | 6 | 5 | 7 | 6 | 0.793 |
| 1074 | gene-CFL1P5 | **CFL1P5** | cofilin 1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.091 |
| 1075 | NM_001114173,NM | **CTSC** | cathepsin C | protein_coding | 1,629 | 1,610 | 1,630 | 1,611 | 0.988 |
| 1080 | NM_000492 | **CFTR** | CF transmembrane conc | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 1081 | NM_000735,NM_00 | **CGA** | glycoprotein hormones, a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1082 | NM_000737 | **CGB3** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1084 | NM_001277163,NM | **CEACAM3** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.108 |
| 1087 | NM_001291485,NM | **CEACAM7** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1088 | NM_001816,XM_01 | **CEACAM8** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1089 | NM_001362492,NM | **CEACAM4** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1091 | gene-CEACAMP2 | **CEACAMP2** | CEA cell adhesion molec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1101 | NM_001267,XM_01 | **CHAD** | chondroadherin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1102 | NM_001268,NM_00 | **RCBTB2** | RCC1 and BTB domain c | protein_coding | 121 | 114 | 122 | 115 | 0.946 |
| 1103 | NM_001142929,NM | **CHAT** | choline O-acetyltransfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1104 | NM_001048194,NM | **RCC1** | regulator of chromosome | protein_coding | 200 | 192 | 201 | 193 | 0.960 |
| 1105 | NM_001270,NM_00 | **CHD1** | chromodomain helicase | protein_coding | 45 | 39 | 46 | 40 | 0.871 |
| 1106 | NM_001042572,NM | **CHD2** | chromodomain helicase | protein_coding | 42 | 34 | 43 | 35 | 0.812 |
| 1107 | NM_001005271,NM | **CHD3** | chromodomain helicase | protein_coding | 34 | 32 | 35 | 33 | 0.935 |
| 1108 | NM_001273,NM_00 | **CHD4** | chromodomain helicase | protein_coding | 159 | 155 | 160 | 156 | 0.977 |
| 1109 | NM_001818 | **AKR1C4** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1111 | NM_001114121,NM | **CHEK1** | checkpoint kinase 1 | protein_coding | 94 | 87 | 95 | 88 | 0.930 |
| 1112 | NM_001085471,NM | **FOXN3** | forkhead box N3 | protein_coding | 32 | 27 | 33 | 28 | 0.841 |
| 1113 | NM_001275,NM_00 | **CHGA** | chromogranin A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1114 | NM_001819 | **CHGB** | chromogranin B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1116 | NM_001276 | **CHI3L1** | chitinase 3 like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 1117 | NM_001025197,NM | **CHI3L2** | chitinase 3 like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.812 |
| 1118 | NM_001256125,NM | **CHIT1** | chitinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1119 | NM_001277,NM_00 | **CHKA** | choline kinase alpha | protein_coding | 17 | 13 | 18 | 14 | 0.809 |
| 1120 | NM_005198 | **CHKB** | choline kinase beta | protein_coding | 4 | 2 | 5 | 3 | 0.665 |
| 1121 | NM_000390,NM_00 | **CHM** | CHM Rab escort protein | protein_coding | 12 | 10 | 13 | 11 | 0.881 |
| 1122 | NM_001381853,NM | **CHML** | CHM like Rab escort pro | protein_coding | 2 | 1 | 3 | 2 | 0.818 |
| 1123 | NM_001025201,NM | **CHN1** | chimerin 1 | protein_coding | 1 | 1 | 2 | 2 | 1.004 |
| 1124 | NM_001039936,NM | **CHN2** | chimerin 2 | protein_coding | 13 | 14 | 14 | 15 | 1.066 |
| 1128 | NM_000738,XM_01 | **CHRM1** | cholinergic receptor mus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1129 | NM_000739,NM_00 | **CHRM2** | cholinergic receptor mus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1130 | NM_000081,NM_00 | **LYST** | lysosomal trafficking regu | protein_coding | 14 | 11 | 15 | 12 | 0.810 |
| 1131 | NM_000740,NM_00 | **CHRM3** | cholinergic receptor mus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1132 | NM_000741,NM_00 | **CHRM4** | cholinergic receptor mus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1133 | NM_001320917,NM | **CHRM5** | cholinergic receptor mus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1134 | NM_000079,NM_00 | **CHRNA1** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1135 | NM_000742,NM_00 | **CHRNA2** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1136 | NM_000743,NM_00 | **CHRNA3** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1137 | NM_000744,NM_00 | **CHRNA4** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1138 | NM_000745,NM_00 | **CHRNA5** | cholinergic receptor nico | protein_coding | 8 | 7 | 9 | 8 | 0.901 |
| 1139 | NM_000746,NM_00 | **CHRNA7** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1140 | NM_000747 | **CHRNB1** | cholinergic receptor nico | protein_coding | 4 | 3 | 5 | 4 | 0.981 |
| 1141 | NM_000748,XM_01 | **CHRNB2** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 1142 | NM_000749,NM_00 | **CHRNB3** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1143 | NM_000750,NM_00 | **CHRNB4** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1144 | NM_000751,NM_00 | **CHRND** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1145 | NM_000080,XM_01 | **CHRNE** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1146 | NM_005199 | **CHRNG** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1147 | NM_001278,NM_00 | **CHUK** | component of inhibitor of | protein_coding | 64 | 53 | 65 | 54 | 0.830 |
| 1149 | NM_001279,NM_00 | **CIDEA** | cell death inducing DFFA | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1152 | NM_001362531,NM | **CKB** | creatine kinase B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1153 | NM_001280,NM_00 | **CIRBP** | cold inducible RNA bindi | protein_coding | 212 | 231 | 213 | 232 | 1.089 |
| 1154 | NM_013324,NM_14 | **CISH** | cytokine inducible SH2 c | protein_coding | 272 | 275 | 273 | 276 | 1.010 |
| 1155 | NM_001281,NM_00 | **TBCB** | tubulin folding cofactor E | protein_coding | 122 | 140 | 123 | 141 | 1.148 |
| 1157 | gene-CKBP1 | **CKBP1** | creatine kinase B pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1158 | NM_001824 | **CKM** | creatine kinase, M-type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1159 | NM_001375484,NM | **CKMT1B** | creatine kinase, mitocho | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 1160 | NM_001099735,NM | **CKMT2** | creatine kinase, mitocho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1161 | NM_000082,NM_00 | **ERCC8** | ERCC excision repair 8, | protein_coding | 8 | 14 | 9 | 15 | 1.584 |
| 1163 | NM_001826,NR_02 | **CKS1B** | CDC28 protein kinase re | protein_coding | 313 | 312 | 314 | 313 | 0.997 |
| 1164 | NM_001827 | **CKS2** | CDC28 protein kinase re | protein_coding | 483 | 469 | 484 | 470 | 0.971 |
| 1173 | NM_001025205,NM | **AP2M1** | adaptor related protein c | protein_coding | 288 | 297 | 289 | 298 | 1.032 |
| 1174 | NM_001283 | **AP1S1** | adaptor related protein c | protein_coding | 55 | 54 | 56 | 55 | 0.979 |
| 1175 | NM_001301076,NM | **AP2S1** | adaptor related protein c | protein_coding | 159 | 171 | 160 | 172 | 1.076 |
| 1176 | NM_001002924,NM | **AP3S1** | adaptor related protein c | protein_coding | 111 | 101 | 112 | 102 | 0.908 |
| 1178 | NM_001828 | **CLC** | Charcot-Leyden crystal g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1179 | NM_001285 | **CLCA1** | chloride channel accesso | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1180 | NM_000083,NR_04 | **CLCN1** | chloride voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1181 | NM_001171087,NM | **CLCN2** | chloride voltage-gated ch | protein_coding | 1 | 1 | 2 | 2 | 1.050 |
| 1182 | NM_001243372,NM | **CLCN3** | chloride voltage-gated ch | protein_coding | 27 | 23 | 28 | 24 | 0.854 |
| 1183 | NM_001256944,NM | **CLCN4** | chloride voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1184 | NM_000084,NM_00 | **CLCN5** | chloride voltage-gated ch | protein_coding | 6 | 5 | 7 | 6 | 0.784 |
| 1185 | NM_001256959,NM | **CLCN6** | chloride voltage-gated ch | protein_coding | 6 | 6 | 7 | 7 | 0.907 |
| 1186 | NM_001114331,NM | **CLCN7** | chloride voltage-gated ch | protein_coding | 15 | 17 | 16 | 18 | 1.145 |
| 1187 | NM_001042704,NM | **CLCNKA** | chloride voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1188 | NM_000085,NM_00 | **CLCNKB** | chloride voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1191 | NM_001831,NR_03 | **CLU** | clusterin | protein_coding | 23 | 23 | 24 | 24 | 1.018 |
| 1192 | NM_001287593,NM | **CLIC1** | chloride intracellular cha | protein_coding | 1,279 | 1,330 | 1,280 | 1,331 | 1.040 |
| 1193 | NM_001289 | **CLIC2** | chloride intracellular cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1195 | NM_001162407,NM | **CLK1** | CDC like kinase 1 | protein_coding | 60 | 59 | 61 | 60 | 0.981 |
| 1196 | NM_001294338,NM | **CLK2** | CDC like kinase 2 | protein_coding | 40 | 36 | 41 | 37 | 0.915 |
| 1197 | NR_002711 | **CLK2P1** | CDC like kinase 2, pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1198 | NM_001130028,NM | **CLK3** | CDC like kinase 3 | protein_coding | 31 | 26 | 32 | 27 | 0.866 |
| 1200 | NM_000391 | **TPP1** | tripeptidyl peptidase 1 | protein_coding | 17 | 15 | 18 | 16 | 0.901 |
| 1201 | NM_000086,NM_00 | **CLN3** | CLN3 lysosomal/endoso | protein_coding | 44 | 44 | 45 | 45 | 0.997 |
| 1203 | NM_001366624,NM | **CLN5** | CLN5 intracellular traffick | protein_coding | 2 | 1 | 3 | 2 | 0.880 |
| 1204 | gene-CLNS1AP1 | **CLNS1AP1** | chloride nucleotide-sens | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1207 | NM_001293,NM_00 | **CLNS1A** | chloride nucleotide-sens | protein_coding | 99 | 100 | 100 | 101 | 1.013 |
| 1208 | NM_001252597,NM | **CLPS** | colipase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1209 | NM_001282175,NM | **CLPTM1** | CLPTM1 regulator of GA | protein_coding | 117 | 120 | 118 | 121 | 1.025 |
| 1211 | NM_001076677,NM | **CLTA** | clathrin light chain A | protein_coding | 185 | 200 | 186 | 201 | 1.080 |
| 1212 | NM_001364126,NM | **CLTB** | clathrin light chain B | protein_coding | 129 | 142 | 130 | 143 | 1.097 |
| 1213 | NM_001288653,NM | **CLTC** | clathrin heavy chain | protein_coding | 173 | 150 | 174 | 151 | 0.867 |
| 1215 | NM_001308083,NM | **CMA1** | chymase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1230 | NM_001295 | **CCR1** | C-C motif chemokine rec | protein_coding | 369 | 324 | 370 | 325 | 0.877 |
| 1232 | NM_001164680,NM | **CCR3** | C-C motif chemokine rec | protein_coding | 1 | 1 | 2 | 2 | 1.022 |
| 1233 | NM_005508,XM_01 | **CCR4** | C-C motif chemokine rec | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 1234 | NM_000579,NM_00 | **CCR5** | C-C motif chemokine rec | protein_coding | 58 | 50 | 59 | 51 | 0.868 |
| 1235 | NM_004367,NM_03 | **CCR6** | C-C motif chemokine rec | protein_coding | 1 | 1 | 2 | 2 | 0.954 |
| 1236 | NM_001301714,NM | **CCR7** | C-C motif chemokine rec | protein_coding | 5 | 5 | 6 | 6 | 0.997 |
| 1237 | NM_005201 | **CCR8** | C-C motif chemokine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1238 | NM_001296 | **ACKR2** | atypical chemokine rece | protein_coding | 1 | 0 | 2 | 1 | 0.681 |
| 1240 | NM_001142343,NM | **CMKLR1** | chemerin chemokine-like | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 1241 | NM_001143919,NM | **LTB4R** | leukotriene B4 receptor | protein_coding | 7 | 7 | 8 | 8 | 1.027 |
| 1244 | NM_000392,XM_00 | **ABCC2** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.103 |
| 1258 | NM_001135639,NM | **CNGB1** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1259 | NM_000087,NM_00 | **CNGA1** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1260 | NM_005140 | **CNGA2** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1261 | NM_001079878,NM | **CNGA3** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1262 | NM_001037329,XM | **CNGA4** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.166 |
| 1263 | NM_004073,XR_24 | **PLK3** | polo like kinase 3 | protein_coding | 7 | 8 | 8 | 9 | 1.081 |
| 1264 | NM_001299,NM_00 | **CNN1** | calponin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1265 | NM_001303499,NM | **CNN2** | calponin 2 | protein_coding | 426 | 426 | 427 | 427 | 0.999 |
| 1266 | NM_001286055,NM | **CNN3** | calponin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 1267 | NM_001330216,NM | **CNP** | 2',3'-cyclic nucleotide 3' | protein_coding | 54 | 55 | 55 | 56 | 1.030 |
| 1268 | NM_001160226,NM | **CNR1** | cannabinoid receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1269 | NM_001841,XM_01 | **CNR2** | cannabinoid receptor 2 | protein_coding | 1 | 0 | 2 | 1 | 0.949 |
| 1270 | NM_000614 | **CNTF** | ciliary neurotrophic facto | protein_coding | 2 | 2 | 3 | 3 | 1.070 |
| 1271 | NM_001207011,NM | **CNTFR** | ciliary neurotrophic facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1272 | NM_001256063,NM | **CNTN1** | contactin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1277 | NM_000088,XM_00 | **COL1A1** | collagen type I alpha 1 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1278 | NM_000089 | **COL1A2** | collagen type I alpha 2 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1280 | NM_001844,NM_03 | **COL2A1** | collagen type II alpha 1 c | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 1281 | NM_000090 | **COL3A1** | collagen type III alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1282 | NM_001303110,NM | **COL4A1** | collagen type IV alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1284 | NM_001846 | **COL4A2** | collagen type IV alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 1285 | NM_000091,XM_00 | **COL4A3** | collagen type IV alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1286 | NM_000092,XM_00 | **COL4A4** | collagen type IV alpha 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1287 | NM_000495,NM_03 | **COL4A5** | collagen type IV alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1288 | NM_001287758,NM | **COL4A6** | collagen type IV alpha 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1289 | NM_000093,NM_00 | **COL5A1** | collagen type V alpha 1 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1290 | NM_000393,XM_01 | **COL5A2** | collagen type V alpha 2 c | protein_coding | 60 | 50 | 61 | 51 | 0.841 |
| 1291 | NM_001848 | **COL6A1** | collagen type VI alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1292 | NM_001849,NM_05 | **COL6A2** | collagen type VI alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1293 | NM_004369,NM_05 | **COL6A3** | collagen type VI alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1294 | NM_000094,XM_01 | **COL7A1** | collagen type VII alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 1295 | NM_001850,NM_02 | **COL8A1** | collagen type VIII alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1296 | NM_001294347,NM | **COL8A2** | collagen type VIII alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1297 | NM_001377289,NM | **COL9A1** | collagen type IX alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1298 | NM_001852,XM_00 | **COL9A2** | collagen type IX alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 1299 | NM_001853,XM_01 | **COL9A3** | collagen type IX alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1300 | NM_000493,XM_00 | **COL10A1** | collagen type X alpha 1 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1301 | NM_001190709,NM | **COL11A1** | collagen type XI alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1302 | NM_001163771,NM | **COL11A2** | collagen type XI alpha 2 | protein_coding | 1 | 0 | 2 | 1 | 0.902 |
| 1303 | NM_004370,NM_08 | **COL12A1** | collagen type XII alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 1305 | NM_001130103,NM | **COL13A1** | collagen type XIII alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1306 | NM_001855,XM_01 | **COL15A1** | collagen type XV alpha 1 | protein_coding | 1 | 1 | 2 | 2 | 0.990 |
| 1307 | NM_001856,XM_00 | **COL16A1** | collagen type XVI alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1308 | NM_000494 | **COL17A1** | collagen type XVII alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1310 | NM_001858,XM_01 | **COL19A1** | collagen type XIX alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1311 | NM_000095 | **COMP** | cartilage oligomeric matr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1312 | NM_000754,NM_00 | **COMT** | catechol-O-methyltransfe | protein_coding | 15 | 17 | 16 | 18 | 1.126 |
| 1314 | NM_001098398,NM | **COPA** | COPI coat complex subu | protein_coding | 107 | 96 | 108 | 97 | 0.905 |
| 1315 | NM_001144061,NM | **COPB1** | COPI coat complex subu | protein_coding | 140 | 120 | 141 | 121 | 0.857 |
| 1316 | NM_001160124,NM | **KLF6** | Kruppel like factor 6 | protein_coding | 42 | 40 | 43 | 41 | 0.941 |
| 1317 | NM_001859 | **SLC31A1** | solute carrier family 31 m | protein_coding | 17 | 17 | 18 | 18 | 0.989 |
| 1318 | NM_001860,XM_01 | **SLC31A2** | solute carrier family 31 m | protein_coding | 0 | 0 | 1 | 1 | 0.845 |
| 1325 | NM_001302 | **CORT** | cortistatin | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 1326 | NM_001244134,NM | **MAP3K8** | mitogen-activated protein | protein_coding | 4 | 5 | 5 | 6 | 1.134 |
| 1327 | NM_001318786,NM | **COX4I1** | cytochrome c oxidase su | protein_coding | 623 | 669 | 624 | 670 | 1.073 |
| 1329 | NM_001862 | **COX5B** | cytochrome c oxidase su | protein_coding | 369 | 425 | 370 | 426 | 1.151 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1330 | gene-COX5BP1 | **COX5BP1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1332 | gene-COX5BP3 | **COX5BP3** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1333 | gene-COX5BP4 | **COX5BP4** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1336 | gene-COX5BP7 | **COX5BP7** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1337 | NM_004373 | **COX6A1** | cytochrome c oxidase su | protein_coding | 823 | 892 | 824 | 893 | 1.084 |
| 1338 | gene-COX6A1P1 | **COX6A1P1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1339 | NM_005205 | **COX6A2** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1340 | NM_001863 | **COX6B1** | cytochrome c oxidase su | protein_coding | 764 | 789 | 765 | 790 | 1.033 |
| 1345 | NM_004374,XM_01 | **COX6C** | cytochrome c oxidase su | protein_coding | 479 | 496 | 480 | 497 | 1.035 |
| 1346 | NM_001864 | **COX7A1** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1347 | NM_001366292,NM | **COX7A2** | cytochrome c oxidase su | protein_coding | 368 | 356 | 369 | 357 | 0.968 |
| 1348 | gene-COX7A2P2 | **COX7A2P2** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1349 | NM_001866 | **COX7B** | cytochrome c oxidase su | protein_coding | 143 | 156 | 144 | 157 | 1.093 |
| 1350 | NM_001867 | **COX7C** | cytochrome c oxidase su | protein_coding | 624 | 616 | 625 | 617 | 0.987 |
| 1351 | NM_004074 | **COX8A** | cytochrome c oxidase su | protein_coding | 837 | 875 | 838 | 876 | 1.046 |
| 1352 | NM_001303 | **COX10** | cytochrome c oxidase as | protein_coding | 25 | 21 | 26 | 22 | 0.851 |
| 1353 | NM_001162861,NM | **COX11** | cytochrome c oxidase co | protein_coding | 46 | 41 | 47 | 42 | 0.894 |
| 1355 | NM_001320974,NM | **COX15** | cytochrome c oxidase as | protein_coding | 28 | 30 | 29 | 31 | 1.081 |
| 1356 | NM_000096,NR_04 | **CP** | ceruloplasmin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1357 | NM_001868 | **CPA1** | carboxypeptidase A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1358 | NM_001869 | **CPA2** | carboxypeptidase A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1359 | NM_001870 | **CPA3** | carboxypeptidase A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1360 | NM_001871 | **CPB1** | carboxypeptidase B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1361 | NM_001278541,NM | **CPB2** | carboxypeptidase B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1362 | NM_001199775,NM | **CPD** | carboxypeptidase D | protein_coding | 54 | 46 | 55 | 47 | 0.857 |
| 1363 | NM_001873 | **CPE** | carboxypeptidase E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1364 | NM_001305 | **CLDN4** | claudin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 1365 | NM_001306 | **CLDN3** | claudin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1366 | NM_001185022,NM | **CLDN7** | claudin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1368 | NM_001005502,NM | **CPM** | carboxypeptidase M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1369 | NM_001308 | **CPN1** | carboxypeptidase N subu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1370 | NM_001080513,NM | **CPN2** | carboxypeptidase N subu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1371 | NM_000097,XM_00 | **CPOX** | coproporphyrinogen oxid | protein_coding | 133 | 120 | 134 | 121 | 0.906 |
| 1373 | NM_001122633,NM | **CPS1** | carbamoyl-phosphate sy | protein_coding | 2 | 2 | 3 | 3 | 0.977 |
| 1374 | NM_001031847,NM | **CPT1A** | carnitine palmitoyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1375 | NM_001145134,NM | **CPT1B** | carnitine palmitoyltransfe | protein_coding | 5 | 4 | 6 | 5 | 0.781 |
| 1376 | NM_000098,NM_00 | **CPT2** | carnitine palmitoyltransfe | protein_coding | 14 | 15 | 15 | 16 | 1.080 |
| 1378 | NM_000651 | **CR1** | complement C3b/C4b re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1379 | NM_175710 | **CR1L** | complement C3b/C4b re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1380 | NM_001006658,NM | **CR2** | complement C3d recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1381 | NM_004378 | **CRABP1** | cellular retinoic acid bind | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1382 | NM_001199723,NM | **CRABP2** | cellular retinoic acid bind | protein_coding | 0 | 0 | 1 | 1 | 0.921 |
| 1384 | NM_000755,NM_00 | **CRAT** | carnitine O-acetyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1385 | NM_001320793,NM | **CREB1** | cAMP responsive elemer | protein_coding | 23 | 18 | 24 | 19 | 0.801 |
| 1386 | NM_001256090,NM | **ATF2** | activating transcription fa | protein_coding | 47 | 38 | 48 | 39 | 0.811 |
| 1387 | NM_001079846,NM | **CREBBP** | CREB binding protein | protein_coding | 38 | 34 | 39 | 35 | 0.887 |
| 1388 | NM_001136153,NM | **ATF6B** | activating transcription fa | protein_coding | 98 | 96 | 99 | 97 | 0.982 |
| 1389 | NM_001310 | **CREBL2** | cAMP responsive elemer | protein_coding | 9 | 8 | 10 | 9 | 0.932 |
| 1390 | NM_001267562,NM | **CREM** | cAMP responsive elemer | protein_coding | 19 | 16 | 20 | 17 | 0.885 |
| 1392 | NM_000756 | **CRH** | corticotropin releasing ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1393 | NM_001882,XR_94 | **CRHBP** | corticotropin releasing ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1394 | NM_001145146,NM | **CRHR1** | corticotropin releasing ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1395 | NM_001202475,NM | **CRHR2** | corticotropin releasing ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1396 | NM_001311 | **CRIP1** | cysteine rich protein 1 | protein_coding | 60 | 75 | 61 | 76 | 1.248 |
| 1397 | NM_001270837,NM | **CRIP2** | cysteine rich protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1398 | NM_005206,NM_01 | **CRK** | CRK proto-oncogene, ad | protein_coding | 18 | 16 | 19 | 17 | 0.879 |
| 1399 | NM_005207,NR_15 | **CRKL** | CRK like proto-oncogene | protein_coding | 81 | 71 | 82 | 72 | 0.876 |
| 1400 | NM_001014809,NM | **CRMP1** | collapsin response media | protein_coding | 2 | 2 | 3 | 3 | 0.953 |
| 1401 | NM_000567,NM_00 | **CRP** | C-reactive protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1404 | NM_001884,XM_01 | **HAPLN1** | hyaluronan and proteogl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1406 | NM_000554 | **CRX** | cone-rod homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1407 | NM_004075,XM_01 | **CRY1** | cryptochrome circadian r | protein_coding | 4 | 4 | 5 | 5 | 1.091 |
| 1408 | NM_001127457,NM | **CRY2** | cryptochrome circadian r | protein_coding | 19 | 18 | 20 | 19 | 0.923 |
| 1409 | NM_000394,NM_00 | **CRYAA** | crystallin alpha A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1410 | NM_001289807,NM | **CRYAB** | crystallin alpha B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1411 | NM_005208,XM_01 | **CRYBA1** | crystallin beta A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1412 | NM_057093,NM_05 | **CRYBA2** | crystallin beta A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1413 | NM_001886,XM_00 | **CRYBA4** | crystallin beta A4 | protein_coding | 1 | 0 | 2 | 1 | 0.843 |
| 1414 | NM_001887,XM_01 | **CRYBB1** | crystallin beta B1 | protein_coding | 0 | 0 | 1 | 1 | 0.866 |
| 1415 | NM_000496,XM_00 | **CRYBB2** | crystallin beta B2 | protein_coding | 1 | 1 | 2 | 2 | 1.015 |
| 1416 | NR_033733,NR_03 | **CRYBB2P1** | crystallin beta B2 pseud | transcribed_pseu | 27 | 25 | 28 | 26 | 0.919 |
| 1417 | NM_004076,XM_01 | **CRYBB3** | crystallin beta B3 | protein_coding | 1 | 1 | 2 | 2 | 1.472 |
| 1418 | NM_014617 | **CRYGA** | crystallin gamma A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1419 | NM_005210,XM_01 | **CRYGB** | crystallin gamma B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1420 | NM_020989,XM_01 | **CRYGC** | crystallin gamma C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1421 | NM_006891 | **CRYGD** | crystallin gamma D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1423 | gene-CRYGFP | **CRYGFP** | crystallin gamma F, pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1424 | gene-CRYGGP | **CRYGGP** | crystallin gamma G, pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1427 | NM_017541 | **CRYGS** | crystallin gamma S | protein_coding | 1 | 0 | 2 | 1 | 0.781 |
| 1428 | NM_001376256,NM | **CRYM** | crystallin mu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1429 | NM_001130042,NM | **CRYZ** | crystallin zeta | protein_coding | 63 | 51 | 64 | 52 | 0.823 |
| 1431 | NM_004077 | **CS** | citrate synthase | protein_coding | 168 | 158 | 169 | 159 | 0.940 |
| 1432 | NM_001315,NM_13 | **MAPK14** | mitogen-activated protein | protein_coding | 50 | 44 | 51 | 45 | 0.889 |
| 1434 | NM_001256135,NM | **CSE1L** | chromosome segregation | protein_coding | 221 | 206 | 222 | 207 | 0.932 |
| 1435 | NM_000757,NM_17 | **CSF1** | colony stimulating factor | protein_coding | 339 | 247 | 340 | 248 | 0.730 |
| 1436 | NM_001288705,NM | **CSF1R** | colony stimulating factor | protein_coding | 0 | 0 | 1 | 1 | 0.882 |
| 1437 | NM_000758 | **CSF2** | colony stimulating factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1438 | NM_001161529,NM | **CSF2RA** | colony stimulating factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1439 | NM_000395,XM_00 | **CSF2RB** | colony stimulating factor | protein_coding | 36 | 34 | 37 | 35 | 0.941 |
| 1440 | NM_000759,NM_00 | **CSF3** | colony stimulating factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1441 | NM_000760,NM_15 | **CSF3R** | colony stimulating factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1442 | NM_001317 | **CSH1** | chorionic somatomammc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1443 | NM_020991,NM_02 | **CSH2** | chorionic somatomammc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1444 | NM_001318,NM_00 | **CSHL1** | chorionic somatomammc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1445 | NM_001127190,NM | **CSK** | C-terminal Src kinase | protein_coding | 300 | 314 | 301 | 315 | 1.047 |
| 1446 | NM_001025104,NM | **CSN1S1** | casein alpha s1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1447 | NM_001302770,NM | **CSN2** | casein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1448 | NM_005212,XM_01 | **CSN3** | casein kappa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1452 | NM_001025105,NM | **CSNK1A1** | casein kinase 1 alpha 1 | protein_coding | 121 | 113 | 122 | 114 | 0.930 |
| 1453 | NM_001363749,NM | **CSNK1D** | casein kinase 1 delta | protein_coding | 89 | 95 | 90 | 96 | 1.066 |
| 1454 | NM_001894,NM_15 | **CSNK1E** | casein kinase 1 epsilon | protein_coding | 52 | 50 | 53 | 51 | 0.968 |
| 1455 | NM_001319,XM_00 | **CSNK1G2** | casein kinase 1 gamma 2 | protein_coding | 76 | 77 | 77 | 78 | 1.011 |
| 1456 | NM_001031812,NM | **CSNK1G3** | casein kinase 1 gamma 3 | protein_coding | 13 | 12 | 14 | 13 | 0.880 |
| 1457 | NM_001362770,NM | **CSNK2A1** | casein kinase 2 alpha 1 | protein_coding | 59 | 59 | 60 | 60 | 0.989 |
| 1459 | NM_001896,XM_00 | **CSNK2A2** | casein kinase 2 alpha 2 | protein_coding | 72 | 66 | 73 | 67 | 0.914 |
| 1460 | NM_001282385,NM | **CSNK2B** | casein kinase 2 beta | protein_coding | 461 | 461 | 462 | 462 | 1.000 |
| 1462 | NM_001126336,NM | **VCAN** | versican | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 1463 | NM_004386 | **NCAN** | neurocan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1464 | NM_001897 | **CSPG4** | chondroitin sulfate prote | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 1465 | NM_001193570,NM | **CSRP1** | cysteine and glycine rich | protein_coding | 118 | 117 | 119 | 118 | 0.992 |
| 1466 | NM_001300965,NM | **CSRP2** | cysteine and glycine rich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1467 | gene-CSRP2P1 | **CSRP2P1** | cysteine and glycine rich | pseudogene | 0 | 0 | 1 | 1 | 0.854 |
| 1468 | NM_001270888,NM | **SLC25A10** | solute carrier family 25 m | protein_coding | 20 | 21 | 21 | 22 | 1.065 |
| 1469 | NM_001898 | **CST1** | cystatin SN | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1470 | NM_001322 | **CST2** | cystatin SA | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1471 | NM_000099,NM_00 | **CST3** | cystatin C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1472 | NM_001899 | **CST4** | cystatin S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1473 | NM_001900 | **CST5** | cystatin D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1474 | NM_001323 | **CST6** | cystatin E/M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1475 | NM_005213 | **CSTA** | cystatin A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1476 | NM_000100 | **CSTB** | cystatin B | protein_coding | 147 | 147 | 148 | 148 | 1.003 |
| 1477 | NM_001033521,NM | **CSTF1** | cleavage stimulation fact | protein_coding | 59 | 57 | 60 | 58 | 0.967 |
| 1478 | NM_001306206,NM | **CSTF2** | cleavage stimulation fact | protein_coding | 38 | 37 | 39 | 38 | 0.965 |
| 1479 | NM_001033505,NM | **CSTF3** | cleavage stimulation fact | protein_coding | 77 | 76 | 78 | 77 | 0.985 |
| 1482 | NM_001166175,NM | **NKX2-5** | NK2 homeobox 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1485 | NM_001327 | **CTAG1B** | cancer/testis antigen 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1486 | NM_004388 | **CTBS** | chitobiase | protein_coding | 5 | 5 | 6 | 6 | 0.972 |
| 1487 | NM_001012614,NM | **CTBP1** | C-terminal binding protei | protein_coding | 106 | 122 | 107 | 123 | 1.151 |
| 1488 | NM_001083914,NM | **CTBP2** | C-terminal binding protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1489 | NM_001142544,NM | **CTF1** | cardiotrophin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1490 | NM_001901 | **CCN2** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1491 | NM_001190463,NM | **CTH** | cystathionine gamma-lya | protein_coding | 3 | 3 | 4 | 4 | 1.107 |
| 1493 | NM_001037631,NM | **CTLA4** | cytotoxic T-lymphocyte a | protein_coding | 2 | 2 | 3 | 3 | 1.003 |
| 1495 | NM_001290307,NM | **CTNNA1** | catenin alpha 1 | protein_coding | 20 | 17 | 21 | 18 | 0.860 |
| 1496 | NM_001164883,NM | **CTNNA2** | catenin alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1497 | NM_001031681,NM | **CTNS** | cystinosin, lysosomal cys | protein_coding | 3 | 3 | 4 | 4 | 1.166 |
| 1498 | gene-CTNNA1P1 | **CTNNA1P1** | catenin alpha 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1499 | NM_001098209,NM | **CTNNB1** | catenin beta 1 | protein_coding | 125 | 123 | 126 | 124 | 0.982 |
| 1500 | NM_001085458,NM | **CTNND1** | catenin delta 1 | protein_coding | 2 | 2 | 3 | 3 | 0.850 |
| 1501 | NM_001288715,NM | **CTNND2** | catenin delta 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1503 | NM_001301237,NM | **CTPS1** | CTP synthase 1 | protein_coding | 172 | 173 | 173 | 174 | 1.001 |
| 1504 | NM_001329190,NM | **CTRB1** | chymotrypsinogen B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1506 | NM_001907 | **CTRL** | chymotrypsin like | protein_coding | 6 | 6 | 7 | 7 | 0.892 |
| 1508 | NM_001317237,NM | **CTSB** | cathepsin B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1509 | NM_001909 | **CTSD** | cathepsin D | protein_coding | 175 | 195 | 176 | 196 | 1.112 |
| 1510 | NM_001317331,NM | **CTSE** | cathepsin E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1511 | NM_001911,XM_01 | **CTSG** | cathepsin G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1512 | NM_001319137,NM | **CTSH** | cathepsin H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1513 | NM_000396 | **CTSK** | cathepsin K | protein_coding | 2 | 1 | 3 | 2 | 0.815 |
| 1514 | NM_001257971,NM | **CTSL** | cathepsin L | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1515 | NM_001201575,NM | **CTSV** | cathepsin V | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1517 | NR_033407 | **CTSLP2** | cathepsin L pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 0.889 |
| 1518 | NR_033405 | **CTSLP8** | cathepsin L pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1519 | NM_001334 | **CTSO** | cathepsin O | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 1520 | NM_001199739,NM | **CTSS** | cathepsin S | protein_coding | 34 | 30 | 35 | 31 | 0.880 |
| 1521 | NM_001335 | **CTSW** | cathepsin W | protein_coding | 1,333 | 1,392 | 1,334 | 1,393 | 1.044 |
| 1522 | NM_001336 | **CTSZ** | cathepsin Z | protein_coding | 22 | 24 | 23 | 25 | 1.071 |
| 1523 | NM_001202543,NM | **CUX1** | cut like homeobox 1 | protein_coding | 10 | 9 | 11 | 10 | 0.872 |
| 1524 | NM_001171171,NM | **CX3CR1** | C-X3-C motif chemokine | protein_coding | 6 | 8 | 7 | 9 | 1.243 |
| 1525 | NM_001207063,NM | **CXADR** | CXADR Ig-like cell adhes | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 1527 | NM_001205201,NM | **TEX28** | testis expressed 28 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1528 | NM_001190807,NM | **CYB5A** | cytochrome b5 type A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1531 | gene-CYB5AP3 | **CYB5AP3** | cytochrome b5 type A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1532 | gene-CYB5AP4 | **CYB5AP4** | cytochrome b5 type A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1534 | NM_001017916,NM | **CYB561** | cytochrome b561 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1535 | NM_000101,XM_01 | **CYBA** | cytochrome b-245 alpha | protein_coding | 438 | 484 | 439 | 485 | 1.105 |
| 1536 | NM_000397 | **CYBB** | cytochrome b-245 beta c | protein_coding | 2 | 2 | 3 | 3 | 1.058 |
| 1537 | NM_001916,XM_01 | **CYC1** | cytochrome c1 | protein_coding | 162 | 166 | 163 | 167 | 1.027 |
| 1538 | NM_001271680,NM | **CYLC1** | cylicin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1539 | NM_001340 | **CYLC2** | cylicin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1540 | NM_001042355,NM | **CYLD** | CYLD lysine 63 deubiqui | protein_coding | 12 | 11 | 13 | 12 | 0.952 |
| 1543 | NM_000499,NM_00 | **CYP1A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1544 | NM_000761 | **CYP1A2** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1545 | NM_000104 | **CYP1B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1548 | NM_000762 | **CYP2A6** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1549 | NM_000764,NM_03 | **CYP2A7** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1550 | gene-CYP2A7P1 | **CYP2A7P1** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1551 | NM_000765 | **CYP3A7** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1553 | NM_000766 | **CYP2A13** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1555 | NM_000767 | **CYP2B6** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1556 | NR_001278 | **CYP2B7P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1557 | NM_000769 | **CYP2C19** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1558 | NM_000770,NM_00 | **CYP2C8** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1559 | NM_000771 | **CYP2C9** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1562 | NM_000772,NM_00 | **CYP2C18** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.043 |
| 1564 | NM_001348386,NR | **CYP2D7** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 1565 | NM_000106,NM_00 | **CYP2D6** | cytochrome P450 family | protein_coding | 1 | 0 | 2 | 1 | 0.741 |
| 1568 | gene-CYP2D8P | **CYP2D8P** | ccytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1571 | NM_000773 | **CYP2E1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 1572 | NM_000774,NR_13 | **CYP2F1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1573 | NM_000775,NR_13 | **CYP2J2** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1576 | NM_001202855,NM | **CYP3A4** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1577 | NM_000777,NM_00 | **CYP3A5** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1579 | NM_000778,NM_00 | **CYP4A11** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1580 | NM_000779,NM_00 | **CYP4B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1581 | NM_000780 | **CYP7A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1582 | NM_004391 | **CYP8B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1583 | NM_000781,NM_00 | **CYP11A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1584 | NM_000497,NM_00 | **CYP11B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1585 | NM_000498 | **CYP11B2** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1586 | NM_000102 | **CYP17A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1587 | NR_001569,NR_02 | **ADAM3A** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1588 | NM_000103,NM_00 | **CYP19A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 0.896 |
| 1589 | NM_000500,NM_00 | **CYP21A2** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1590 | NR_040090 | **CYP21A1P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1591 | NM_000782,NM_00 | **CYP24A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1592 | NM_000783,NM_05 | **CYP26A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1593 | NM_000784,XM_01 | **CYP27A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1594 | NM_000785 | **CYP27B1** | cytochrome P450 family | protein_coding | 4 | 4 | 5 | 5 | 0.873 |
| 1595 | NM_000786,NM_00 | **CYP51A1** | cytochrome P450 family | protein_coding | 75 | 60 | 76 | 61 | 0.802 |
| 1596 | NR_144553 | **ADAM3B** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1600 | NM_001353980,NM | **DAB1** | DAB adaptor protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.941 |
| 1601 | NM_001244871,NM | **DAB2** | DAB adaptor protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1602 | NM_001366712,NM | **DACH1** | dachshund family transc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1603 | NM_001344 | **DAD1** | defender against cell dea | protein_coding | 193 | 207 | 194 | 208 | 1.075 |
| 1604 | NM_000574,NM_00 | **CD55** | CD55 molecule (Cromer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1605 | NM_001165928,NM | **DAG1** | dystroglycan 1 | protein_coding | 18 | 17 | 19 | 18 | 0.967 |
| 1606 | NM_001345,NM_00 | **DGKA** | diacylglycerol kinase alp | protein_coding | 58 | 57 | 59 | 58 | 0.985 |
| 1607 | NM_001350705,NM | **DGKB** | diacylglycerol kinase bet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1608 | NM_001080744,NM | **DGKG** | diacylglycerol kinase gar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1609 | NM_001347,XM_01 | **DGKQ** | diacylglycerol kinase the | protein_coding | 1 | 2 | 2 | 3 | 1.111 |
| 1610 | NM_001917,XM_00 | **DAO** | D-amino acid oxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1611 | NM_001291963,NM | **DAP** | death associated protein | protein_coding | 62 | 65 | 63 | 66 | 1.041 |
| 1612 | NM_001288729,NM | **DAPK1** | death associated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1613 | NM_001348,NM_00 | **DAPK3** | death associated protein | protein_coding | 47 | 50 | 48 | 51 | 1.059 |
| 1615 | NM_001293312,NM | **DARS1** | aspartyl-tRNA synthetas | protein_coding | 137 | 125 | 138 | 126 | 0.916 |
| 1616 | NM_001141969,NM | **DAXX** | death domain associated | protein_coding | 122 | 121 | 123 | 122 | 0.992 |
| 1617 | NM_004081,XM_01 | **DAZ1** | deleted in azoospermia 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1618 | NM_001190811,NM | **DAZL** | deleted in azoospermia l | protein_coding | 0 | 0 | 1 | 1 | 1.062 |
| 1620 | NM_014618 | **BRINP1** | BMP/retinoic acid inducit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1621 | NM_000787 | **DBH** | dopamine beta-hydroxyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1622 | NM_001079862,NM | **DBI** | diazepam binding inhibit | protein_coding | 581 | 611 | 582 | 612 | 1.053 |
| 1624 | gene-DBIP1 | **DBIP1** | DBI pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1627 | NM_001363541,NM | **DBN1** | drebrin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 1628 | NM_001352,XM_01 | **DBP** | D-box binding PAR bZIP | protein_coding | 2 | 2 | 3 | 3 | 1.032 |
| 1629 | NM_001918,XM_00 | **DBT** | dihydrolipoamide branch | protein_coding | 9 | 7 | 10 | 8 | 0.867 |
| 1630 | NM_005215,XM_01 | **DCC** | DCC netrin 1 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1632 | NM_001178029,NM | **ECI1** | enoyl-CoA delta isomera | protein_coding | 24 | 23 | 25 | 24 | 0.963 |
| 1633 | NM_000788 | **DCK** | deoxycytidine kinase | protein_coding | 139 | 122 | 140 | 123 | 0.883 |
| 1634 | NM_001920,NM_13 | **DCN** | decorin | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 1635 | NM_001012732,NM | **DCTD** | dCMP deaminase | protein_coding | 84 | 84 | 85 | 85 | 0.994 |
| 1636 | NM_000789,NM_00 | **ACE** | angiotensin I converting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1638 | NM_001129889,NM | **DCT** | dopachrome tautomeras | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1639 | NM_001135040,NM | **DCTN1** | dynactin subunit 1 | protein_coding | 163 | 162 | 164 | 163 | 0.993 |
| 1641 | NM_000555,NM_00 | **DCX** | doublecortin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1642 | NM_001923 | **DDB1** | damage specific DNA bir | protein_coding | 292 | 287 | 293 | 288 | 0.984 |
| 1643 | NM_000107,NM_00 | **DDB2** | damage specific DNA bir | protein_coding | 19 | 23 | 20 | 24 | 1.199 |
| 1644 | NM_000790,NM_00 | **DDC** | dopa decarboxylase | protein_coding | 1 | 1 | 2 | 2 | 0.959 |
| 1645 | NM_001353,XM_01 | **AKR1C1** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1646 | NM_001135241,NM | **AKR1C2** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1647 | NM_001199741,NM | **GADD45A** | growth arrest and DNA d | protein_coding | 4 | 4 | 5 | 5 | 1.000 |
| 1648 | gene-GADD45AP1 | **GADD45AP1** | growth arrest and DNA d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1649 | NM_001195053,NM | **DDIT3** | DNA damage inducible t | protein_coding | 26 | 29 | 27 | 30 | 1.091 |
| 1650 | NM_005216 | **DDOST** | dolichyl-diphosphooligos | protein_coding | 366 | 386 | 367 | 387 | 1.055 |
| 1652 | NM_001084392,NM | **DDT** | D-dopachrome tautomer | protein_coding | 155 | 157 | 156 | 158 | 1.014 |
| 1653 | NM_004939 | **DDX1** | DEAD-box helicase 1 | protein_coding | 147 | 143 | 148 | 144 | 0.972 |
| 1654 | NM_001193416,NM | **DDX3X** | DEAD-box helicase 3 X-l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1655 | NM_001320595,NM | **DDX5** | DEAD-box helicase 5 | protein_coding | 413 | 413 | 414 | 414 | 1.001 |
| 1656 | NM_001257191,NM | **DDX6** | DEAD-box helicase 6 | protein_coding | 96 | 79 | 97 | 80 | 0.828 |
| 1657 | NM_001290321,NM | **DMXL1** | Dmx like 1 | protein_coding | 10 | 8 | 11 | 9 | 0.792 |
| 1659 | NM_001302623,NM | **DHX8** | DEAH-box helicase 8 | protein_coding | 43 | 39 | 44 | 40 | 0.919 |
| 1660 | NM_001357,NR_03 | **DHX9** | DExH-box helicase 9 | protein_coding | 292 | 270 | 293 | 271 | 0.927 |
| 1661 | gene-DHX9P1 | **DHX9P1** | DEAH-box helicase 9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1662 | NM_004398 | **DDX10** | DEAD-box helicase 10 | protein_coding | 60 | 54 | 61 | 55 | 0.910 |
| 1663 | NM_001257144,NM | **DDX11** | DEAD/H-box helicase 11 | protein_coding | 32 | 32 | 33 | 33 | 0.995 |
| 1665 | NM_001358,XR_00 | **DHX15** | DEAH-box helicase 15 | protein_coding | 258 | 222 | 259 | 223 | 0.859 |
| 1666 | NM_001330575,NM | **DECR1** | 2,4-dienoyl-CoA reducta | protein_coding | 44 | 42 | 45 | 43 | 0.966 |
| 1667 | NM_004084,XM_01 | **DEFA1** | defensin alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1668 | NM_005217,XM_01 | **DEFA3** | defensin alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1669 | NM_001925 | **DEFA4** | defensin alpha 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1670 | NM_021010 | **DEFA5** | defensin alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1671 | NM_001926 | **DEFA6** | defensin alpha 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1672 | NM_005218 | **DEFB1** | defensin beta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1673 | NM_004942 | **DEFB4A** | defensin beta 4A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1674 | NM_001382708,NM | **DES** | desmin | protein_coding | 1 | 1 | 2 | 2 | 1.102 |
| 1675 | NM_001317335,NM | **CFD** | complement factor D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1676 | NM_004401,NM_21 | **DFFA** | DNA fragmentation facto | protein_coding | 114 | 101 | 115 | 102 | 0.891 |
| 1677 | NM_001282669,NM | **DFFB** | DNA fragmentation facto | protein_coding | 6 | 4 | 7 | 5 | 0.744 |
| 1678 | NM_001145951,NM | **TIMM8A** | translocase of inner mito | protein_coding | 46 | 38 | 47 | 39 | 0.838 |
| 1687 | NM_001127453,NM | **GSDME** | gasdermin E | protein_coding | 0 | 0 | 1 | 1 | 0.906 |
| 1690 | NM_001135058,NM | **COCH** | cochlin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1716 | NM_001318859,NM | **DGUOK** | deoxyguanosine kinase | protein_coding | 137 | 146 | 138 | 147 | 1.060 |
| 1717 | NM_001163817,NM | **DHCR7** | 7-dehydrocholesterol rec | protein_coding | 67 | 66 | 68 | 67 | 0.992 |
| 1718 | NM_014762 | **DHCR24** | 24-dehydrocholesterol re | protein_coding | 127 | 131 | 128 | 132 | 1.031 |
| 1719 | NM_000791,NM_00 | **DHFR** | dihydrofolate reductase | protein_coding | 159 | 149 | 160 | 150 | 0.934 |
| 1720 | NR_033423 | **DHFRP3** | dihydrofolate reductase p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 1723 | NM_001361,XM_00 | **DHODH** | dihydroorotate dehydrog | protein_coding | 10 | 11 | 11 | 12 | 1.147 |
| 1725 | NM_001206974,NM | **DHPS** | deoxyhypusine synthase | protein_coding | 70 | 74 | 71 | 75 | 1.047 |
| 1727 | NM_000398,NM_00 | **CYB5R3** | cytochrome b5 reductase | protein_coding | 33 | 33 | 34 | 34 | 1.026 |
| 1728 | NM_000903,NM_00 | **NQO1** | NAD(P)H quinone dehyd | protein_coding | 11 | 13 | 12 | 14 | 1.146 |
| 1729 | NM_001079812,NM | **DIAPH1** | diaphanous related form | protein_coding | 209 | 195 | 210 | 196 | 0.934 |
| 1730 | NM_006729,NM_00 | **DIAPH2** | diaphanous related form | protein_coding | 5 | 4 | 6 | 5 | 0.827 |
| 1731 | NM_001365977,NM | **SEPTIN1** | septin 1 | protein_coding | 196 | 214 | 197 | 215 | 1.093 |
| 1733 | NM_000792,NM_00 | **DIO1** | iodothyronine deiodinase | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 1734 | NM_000793,NM_00 | **DIO2** | iodothyronine deiodinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1735 | NM_001362 | **DIO3** | iodothyronine deiodinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1736 | NM_001142463,NM | **DKC1** | dyskerin pseudouridine s | protein_coding | 333 | 323 | 334 | 324 | 0.970 |
| 1737 | NM_001372031,NM | **DLAT** | dihydrolipoamide S-acet | protein_coding | 88 | 79 | 89 | 80 | 0.907 |
| 1738 | NM_000108,NM_00 | **DLD** | dihydrolipoamide dehydr | protein_coding | 81 | 74 | 82 | 75 | 0.910 |
| 1739 | NM_001098424,NM | **DLG1** | discs large MAGUK scaf | protein_coding | 23 | 21 | 24 | 22 | 0.915 |
| 1740 | NM_001142699,NM | **DLG2** | discs large MAGUK scaf | protein_coding | 1 | 1 | 2 | 2 | 0.978 |
| 1741 | NM_001166278,NM | **DLG3** | discs large MAGUK scaf | protein_coding | 25 | 22 | 26 | 23 | 0.903 |
| 1742 | NM_001128827,NM | **DLG4** | discs large MAGUK scaf | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 1743 | NM_001244883,NM | **DLST** | dihydrolipoamide S-succ | protein_coding | 70 | 70 | 71 | 71 | 1.004 |
| 1744 | NR_130749 | **DLSTP1** | dihydrolipoamide S-succ | transcribed_pseu | 1 | 1 | 2 | 2 | 0.851 |
| 1745 | NM_001038493,NM | **DLX1** | distal-less homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 0.751 |
| 1746 | NM_004405 | **DLX2** | distal-less homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1747 | NM_005220 | **DLX3** | distal-less homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1748 | NM_001934,NM_13 | **DLX4** | distal-less homeobox 4 | protein_coding | 1 | 1 | 2 | 2 | 0.836 |
| 1749 | NM_005221,XM_00 | **DLX5** | distal-less homeobox 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1750 | NM_005222 | **DLX6** | distal-less homeobox 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1755 | NM_001320644,NM | **DMBT1** | deleted in malignant brai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1756 | NM_000109,NM_00 | **DMD** | dystrophin | protein_coding | 1 | 1 | 2 | 2 | 0.987 |
| 1757 | NM_001134707,NM | **SARDH** | sarcosine dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1758 | NM_001079911,NM | **DMP1** | dentin matrix acidic phos | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 1759 | NM_001005336,NM | **DNM1** | dynamin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1760 | NM_001081560,NM | **DMPK** | DM1 protein kinase | protein_coding | 23 | 21 | 24 | 22 | 0.915 |
| 1761 | NM_001363767,NM | **DMRT1** | doublesex and mab-3 rel | protein_coding | 9 | 9 | 10 | 10 | 0.978 |
| 1762 | NM_004943 | **DMWD** | DM1 locus, WD repeat c | protein_coding | 43 | 41 | 44 | 42 | 0.951 |
| 1763 | NM_001080449,NR | **DNA2** | DNA replication helicase | protein_coding | 50 | 41 | 51 | 42 | 0.832 |
| 1767 | NM_001369,XM_00 | **DNAH5** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1768 | NM_001370,XM_00 | **DNAH6** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 1769 | NM_001206927,NM | **DNAH8** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 1770 | NM_001372,NM_00 | **DNAH9** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1773 | NM_001351825,NM | **DNASE1** | deoxyribonuclease 1 | protein_coding | 8 | 8 | 9 | 9 | 1.011 |
| 1774 | NM_001009932,NM | **DNASE1L1** | deoxyribonuclease 1 like | protein_coding | 6 | 6 | 7 | 7 | 0.957 |
| 1775 | NM_001301680,NM | **DNASE1L2** | deoxyribonuclease 1 like | protein_coding | 2 | 3 | 3 | 4 | 1.178 |
| 1776 | NM_001256560,NM | **DNASE1L3** | deoxyribonuclease 1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1777 | NM_001375 | **DNASE2** | deoxyribonuclease 2, lys | protein_coding | 10 | 8 | 11 | 9 | 0.844 |
| 1778 | NM_001376 | **DYNC1H1** | dynein cytoplasmic 1 hea | protein_coding | 40 | 34 | 41 | 35 | 0.856 |
| 1780 | NM_001135556,NM | **DYNC1I1** | dynein cytoplasmic 1 inte | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 1781 | NM_001271785,NM | **DYNC1I2** | dynein cytoplasmic 1 inte | protein_coding | 24 | 26 | 25 | 27 | 1.072 |
| 1783 | NM_001286157,NM | **DYNC1LI2** | dynein cytoplasmic 1 ligh | protein_coding | 46 | 40 | 47 | 41 | 0.871 |
| 1785 | NM_001005360,NM | **DNM2** | dynamin 2 | protein_coding | 147 | 151 | 148 | 152 | 1.025 |
| 1786 | NM_001130823,NM | **DNMT1** | DNA methyltransferase 1 | protein_coding | 207 | 194 | 208 | 195 | 0.935 |
| 1787 | NM_001321006,NM | **TRDMT1** | tRNA aspartic acid meth | protein_coding | 1 | 1 | 2 | 2 | 0.776 |
| 1788 | NM_001320892,NM | **DNMT3A** | DNA methyltransferase 3 | protein_coding | 2 | 2 | 3 | 3 | 1.107 |
| 1789 | NM_001207055,NM | **DNMT3B** | DNA methyltransferase 3 | protein_coding | 38 | 33 | 39 | 34 | 0.868 |
| 1791 | NM_001017520,NM | **DNTT** | DNA nucleotidylexotrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1793 | NM_001290223,NM | **DOCK1** | dedicator of cytokinesis 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1794 | NM_004946,NR_15 | **DOCK2** | dedicator of cytokinesis 2 | protein_coding | 148 | 136 | 149 | 137 | 0.925 |
| 1795 | NM_004947,XM_00 | **DOCK3** | dedicator of cytokinesis 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1796 | NM_001197260,NM | **DOK1** | docking protein 1 | protein_coding | 12 | 12 | 13 | 13 | 1.041 |
| 1797 | NM_001371205,NM | **DXO** | decapping exoribonuclea | protein_coding | 8 | 9 | 9 | 10 | 1.088 |
| 1798 | NM_001382,XM_00 | **DPAGT1** | dolichyl-phosphate N-ac | protein_coding | 60 | 56 | 61 | 57 | 0.945 |
| 1800 | NM_001128141,NM | **DPEP1** | dipeptidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1801 | NM_001346574,NM | **DPH1** | diphthamide biosynthesis | protein_coding | 19 | 17 | 20 | 18 | 0.877 |
| 1802 | NM_001039589,NM | **DPH2** | diphthamide biosynthesis | protein_coding | 105 | 98 | 106 | 99 | 0.937 |
| 1803 | NM_001379604,NM | **DPP4** | dipeptidyl peptidase 4 | protein_coding | 231 | 222 | 232 | 223 | 0.961 |
| 1804 | NM_001039350,NM | **DPP6** | dipeptidyl peptidase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1805 | NM_001937 | **DPT** | dermatopontin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1806 | NM_000110,NM_00 | **DPYD** | dihydropyrimidine dehyd | protein_coding | 20 | 17 | 21 | 18 | 0.847 |
| 1807 | NM_001385,XM_00 | **DPYS** | dihydropyrimidinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1808 | NM_001197293,NM | **DPYSL2** | dihydropyrimidinase like | protein_coding | 33 | 36 | 34 | 37 | 1.079 |
| 1809 | NM_001197294,NM | **DPYSL3** | dihydropyrimidinase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1810 | NM_001938 | **DR1** | down-regulator of transc | protein_coding | 52 | 46 | 53 | 47 | 0.891 |
| 1811 | NM_000111 | **SLC26A3** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1812 | NM_000794 | **DRD1** | dopamine receptor D1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1813 | NM_000795,NM_01 | **DRD2** | dopamine receptor D2 | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 1814 | NM_000796,NM_00 | **DRD3** | dopamine receptor D3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1815 | NM_000797 | **DRD4** | dopamine receptor D4 | protein_coding | 0 | 0 | 1 | 1 | 1.301 |
| 1816 | NM_000798 | **DRD5** | dopamine receptor D5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1817 | gene-DRD5P1 | **DRD5P1** | dopamine receptor D5 ps | pseudogene | 0 | 0 | 1 | 1 | 0.980 |
| 1818 | NR_111001 | **DRD5P2** | dopamine receptor D5 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 0.995 |
| 1819 | NM_001330144,NM | **DRG2** | developmentally regulate | protein_coding | 30 | 33 | 31 | 34 | 1.097 |
| 1820 | NM_005224,XM_00 | **ARID3A** | AT-rich interaction domai | protein_coding | 4 | 3 | 5 | 4 | 0.770 |
| 1821 | NM_001171184,NM | **DRP2** | dystrophin related protei | protein_coding | 1 | 1 | 2 | 2 | 1.051 |
| 1822 | NM_001007026,NM | **ATN1** | atrophin 1 | protein_coding | 18 | 17 | 19 | 18 | 0.950 |
| 1823 | NM_004948,NM_02 | **DSC1** | desmocollin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1824 | NM_004949,NM_02 | **DSC2** | desmocollin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1825 | NM_001941,NM_02 | **DSC3** | desmocollin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1826 | NM_001271534,NM | **DSCAM** | DS cell adhesion molecu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1827 | NM_001285389,NM | **RCAN1** | regulator of calcineurin 1 | protein_coding | 9 | 7 | 10 | 8 | 0.819 |
| 1828 | NM_001942 | **DSG1** | desmoglein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1829 | NM_001943,XM_02 | **DSG2** | desmoglein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1830 | NM_001944,XM_01 | **DSG3** | desmoglein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1831 | NM_001015881,NM | **TSC22D3** | TSC22 domain family me | protein_coding | 10 | 12 | 11 | 13 | 1.152 |
| 1832 | NM_001008844,NM | **DSP** | desmoplakin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1833 | NM_004950,XM_01 | **EPYC** | epiphycan | protein_coding | 0 | 0 | 1 | 1 | 0.824 |
| 1834 | NM_014208 | **DSPP** | dentin sialophosphopro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1836 | NM_000112,XM_01 | **SLC26A2** | solute carrier family 26 m | protein_coding | 14 | 12 | 15 | 13 | 0.894 |
| 1837 | NM_001128175,NM | **DTNA** | dystrobrevin alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1838 | NM_001256303,NM | **DTNB** | dystrobrevin beta | protein_coding | 7 | 6 | 8 | 7 | 0.926 |
| 1839 | NM_001945 | **HBEGF** | heparin binding EGF like | protein_coding | 6 | 7 | 7 | 8 | 1.147 |
| 1840 | NM_004416,XM_01 | **DTX1** | deltex E3 ubiquitin ligase | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 1841 | NM_001165031,NM | **DTYMK** | deoxythymidylate kinase | protein_coding | 252 | 268 | 253 | 269 | 1.063 |
| 1842 | NM_001197295,NM | **ECM2** | extracellular matrix prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1843 | NM_004417 | **DUSP1** | dual specificity phosphat | protein_coding | 4 | 4 | 5 | 5 | 0.853 |
| 1844 | NM_004418,XM_01 | **DUSP2** | dual specificity phosphat | protein_coding | 34 | 31 | 35 | 32 | 0.913 |
| 1845 | NM_004090 | **DUSP3** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 1846 | NM_001394,NM_05 | **DUSP4** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 0.878 |
| 1847 | NM_004419 | **DUSP5** | dual specificity phosphat | protein_coding | 295 | 304 | 296 | 305 | 1.029 |
| 1848 | NM_001946,NM_02 | **DUSP6** | dual specificity phosphat | protein_coding | 14 | 11 | 15 | 12 | 0.802 |
| 1849 | NM_001947 | **DUSP7** | dual specificity phosphat | protein_coding | 22 | 22 | 23 | 23 | 1.006 |
| 1850 | NM_004420,XM_01 | **DUSP8** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1852 | NM_001318503,NM | **DUSP9** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1854 | NM_001025248,NM | **DUT** | deoxyuridine triphosphat | protein_coding | 484 | 477 | 485 | 478 | 0.987 |
| 1855 | NM_001330311,NM | **DVL1** | dishevelled segment pol | protein_coding | 31 | 28 | 32 | 29 | 0.903 |
| 1856 | NM_004422,XM_00 | **DVL2** | dishevelled segment pol | protein_coding | 23 | 25 | 24 | 26 | 1.088 |
| 1857 | NM_004423,XM_00 | **DVL3** | dishevelled segment pol | protein_coding | 38 | 34 | 39 | 35 | 0.897 |
| 1859 | NM_001347721,NM | **DYRK1A** | dual specificity tyrosine p | protein_coding | 23 | 21 | 24 | 22 | 0.929 |
| 1861 | NM_000113,XR_92 | **TOR1A** | torsin family 1 member A | protein_coding | 67 | 69 | 68 | 70 | 1.017 |
| 1869 | NM_005225 | **E2F1** | E2F transcription factor 1 | protein_coding | 100 | 100 | 101 | 101 | 1.004 |
| 1870 | NM_004091,XM_00 | **E2F2** | E2F transcription factor 2 | protein_coding | 53 | 51 | 54 | 52 | 0.970 |
| 1871 | NM_001243076,NM | **E2F3** | E2F transcription factor 3 | protein_coding | 47 | 40 | 48 | 41 | 0.854 |
| 1872 | gene-E2F3P1 | **E2F3P1** | E2F transcription factor 3 | pseudogene | 0 | 0 | 1 | 1 | 1.354 |
| 1874 | NM_001950,XR_002 | **E2F4** | E2F transcription factor 4 | protein_coding | 204 | 226 | 205 | 227 | 1.107 |
| 1875 | NM_001083588,NM | **E2F5** | E2F transcription factor 5 | protein_coding | 47 | 40 | 48 | 41 | 0.862 |
| 1876 | NM_001278275,NM | **E2F6** | E2F transcription factor 6 | protein_coding | 29 | 30 | 30 | 31 | 1.034 |
| 1877 | NM_001288776,NM | **E4F1** | E4F transcription factor 1 | protein_coding | 26 | 28 | 27 | 29 | 1.047 |
| 1879 | NM_001290360,NM | **EBF1** | EBF transcription factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1880 | NM_004951,XM_01 | **GPR183** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.119 |
| 1889 | NM_001113347,NM | **ECE1** | endothelin converting en | protein_coding | 31 | 28 | 32 | 29 | 0.902 |
| 1890 | NM_001113755,NM | **TYMP** | thymidine phosphorylase | protein_coding | 39 | 40 | 40 | 41 | 1.015 |
| 1891 | NM_001398,XM_01 | **ECH1** | enoyl-CoA hydratase 1 | protein_coding | 102 | 105 | 103 | 106 | 1.022 |
| 1892 | NM_004092,XR_002 | **ECHS1** | enoyl-CoA hydratase, sh | protein_coding | 95 | 110 | 96 | 111 | 1.146 |
| 1893 | NM_001202858,NM | **ECM1** | extracellular matrix prote | protein_coding | 2 | 1 | 3 | 2 | 0.770 |
| 1894 | NM_001258315,NM | **ECT2** | epithelial cell transformin | protein_coding | 75 | 62 | 76 | 63 | 0.820 |
| 1896 | NM_001005609,NM | **EDA** | ectodysplasin A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1901 | NM_001320730,NM | **S1PR1** | sphingosine-1-phosphate | protein_coding | 14 | 13 | 15 | 14 | 0.951 |
| 1902 | NM_001351397,NM | **LPAR1** | lysophosphatidic acid re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1903 | NM_005226 | **S1PR3** | sphingosine-1-phosphate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1906 | NM_001168319,NM | **EDN1** | endothelin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1907 | NM_001302269,NM | **EDN2** | endothelin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1908 | NM_001302455,NM | **EDN3** | endothelin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 1909 | NM_001166055,NM | **EDNRA** | endothelin receptor type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1910 | NM_000115,NM_00 | **EDNRB** | endothelin receptor type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1911 | NM_004426,XM_00 | **PHC1** | polyhomeotic homolog 1 | protein_coding | 6 | 5 | 7 | 6 | 0.803 |
| 1912 | NM_001330488,NM | **PHC2** | polyhomeotic homolog 2 | protein_coding | 42 | 43 | 43 | 44 | 1.031 |
| 1915 | NM_001402 | **EEF1A1** | eukaryotic translation elc | protein_coding | 5,363 | 5,472 | 5,364 | 5,473 | 1.020 |
| 1917 | NM_001958 | **EEF1A2** | eukaryotic translation elc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1918 | gene-EEF1A1P43 | **EEF1A1P43** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1932 | gene-EEF1B2P1 | **EEF1B2P1** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1933 | NM_001037663,NM | **EEF1B2** | eukaryotic translation elc | protein_coding | 1,602 | 1,641 | 1,603 | 1,642 | 1.024 |
| 1934 | gene-EEF1B2P2 | **EEF1B2P2** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 1936 | NM_001130053,NM | **EEF1D** | eukaryotic translation elc | protein_coding | 333 | 337 | 334 | 338 | 1.012 |
| 1937 | NM_001404 | **EEF1G** | eukaryotic translation elc | protein_coding | 1,962 | 1,973 | 1,963 | 1,974 | 1.006 |
| 1938 | NM_001961 | **EEF2** | eukaryotic translation elc | protein_coding | 1,954 | 1,970 | 1,955 | 1,971 | 1.008 |
| 1939 | NM_001201478,NM | **EIF2D** | eukaryotic translation init | protein_coding | 57 | 60 | 58 | 61 | 1.056 |
| 1942 | NM_004428,NM_18 | **EFNA1** | ephrin A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1943 | NM_001405,XM_01 | **EFNA2** | ephrin A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1944 | NM_004952 | **EFNA3** | ephrin A3 | protein_coding | 1 | 2 | 2 | 3 | 1.213 |
| 1945 | NM_005227,NM_18 | **EFNA4** | ephrin A4 | protein_coding | 1 | 1 | 2 | 2 | 0.885 |
| 1946 | NM_001962,XM_00 | **EFNA5** | ephrin A5 | protein_coding | 1 | 1 | 2 | 2 | 0.983 |
| 1947 | NM_004429 | **EFNB1** | ephrin B1 | protein_coding | 5 | 6 | 6 | 7 | 1.210 |
| 1948 | NM_001372056,NM | **EFNB2** | ephrin B2 | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 1949 | NM_001406 | **EFNB3** | ephrin B3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1950 | NM_001178130,NM | **EGF** | epidermal growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1951 | NM_001407 | **CELSR3** | cadherin EGF LAG seve | protein_coding | 14 | 13 | 15 | 14 | 0.955 |
| 1952 | NM_001408 | **CELSR2** | cadherin EGF LAG seve | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1953 | NM_001409,XM_00 | **MEGF6** | multiple EGF like domair | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 1954 | NM_001271938,NM | **MEGF8** | multiple EGF like domair | protein_coding | 8 | 7 | 9 | 8 | 0.891 |
| 1955 | NM_001080497 | **MEGF9** | multiple EGF like domair | protein_coding | 6 | 5 | 7 | 6 | 0.916 |
| 1956 | NM_001346897,NM | **EGFR** | epidermal growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1958 | NM_001964 | **EGR1** | early growth response 1 | protein_coding | 4 | 3 | 5 | 4 | 0.888 |
| 1959 | NM_000399,NM_00 | **EGR2** | early growth response 2 | protein_coding | 3 | 2 | 4 | 3 | 0.811 |
| 1960 | NM_001199880,NM | **EGR3** | early growth response 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1961 | NM_001965 | **EGR4** | early growth response 4 | protein_coding | 1 | 1 | 2 | 2 | 1.213 |
| 1962 | NM_001166415,NM | **EHHADH** | enoyl-CoA hydratase and | protein_coding | 7 | 7 | 8 | 8 | 0.946 |
| 1964 | NM_001412 | **EIF1AX** | eukaryotic translation init | protein_coding | 147 | 137 | 148 | 138 | 0.936 |
| 1965 | NM_004094 | **EIF2S1** | eukaryotic translation init | protein_coding | 117 | 111 | 118 | 112 | 0.946 |
| 1967 | NM_001414 | **EIF2B1** | eukaryotic translation init | protein_coding | 99 | 99 | 100 | 100 | 1.006 |
| 1968 | NM_001415 | **EIF2S3** | eukaryotic translation init | protein_coding | 290 | 267 | 291 | 268 | 0.922 |
| 1969 | NM_001329090,NM | **EPHA2** | EPH receptor A2 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 1973 | NM_001204510,NM | **EIF4A1** | eukaryotic translation init | protein_coding | 975 | 993 | 976 | 994 | 1.018 |
| 1974 | NM_001967 | **EIF4A2** | eukaryotic translation init | protein_coding | 515 | 528 | 516 | 529 | 1.026 |
| 1975 | NM_001300821,NM | **EIF4B** | eukaryotic translation init | protein_coding | 230 | 205 | 231 | 206 | 0.894 |
| 1977 | NM_001130678,NM | **EIF4E** | eukaryotic translation init | protein_coding | 30 | 27 | 31 | 28 | 0.906 |
| 1978 | NM_004095 | **EIF4EBP1** | eukaryotic translation init | protein_coding | 29 | 22 | 30 | 23 | 0.770 |
| 1979 | NM_004096 | **EIF4EBP2** | eukaryotic translation init | protein_coding | 63 | 58 | 64 | 59 | 0.915 |
| 1980 | gene-EIF4EP1 | **EIF4EP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 1981 | NM_001194946,NM | **EIF4G1** | eukaryotic translation init | protein_coding | 523 | 493 | 524 | 494 | 0.944 |
| 1982 | NM_001042559,NM | **EIF4G2** | eukaryotic translation init | protein_coding | 901 | 838 | 902 | 839 | 0.930 |
| 1983 | NM_001969,NM_18 | **EIF5** | eukaryotic translation init | protein_coding | 126 | 117 | 127 | 118 | 0.934 |
| 1984 | NM_001143760,NM | **EIF5A** | eukaryotic translation init | protein_coding | 832 | 911 | 833 | 912 | 1.096 |
| 1987 | gene-EIF5AP3 | **EIF5AP3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.122 |
| 1990 | NM_001971 | **CELA1** | chymotrypsin like elastas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1991 | NM_001972,XM_01 | **ELANE** | elastase, neutrophil expr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1992 | NM_030666,NR_07 | **SERPINB1** | serpin family B member | protein_coding | 127 | 131 | 128 | 132 | 1.032 |
| 1993 | NM_001171195,NM | **ELAVL2** | ELAV like RNA binding p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1994 | NM_001419,XR_001 | **ELAVL1** | ELAV like RNA binding p | protein_coding | 78 | 74 | 79 | 75 | 0.946 |
| 1995 | NM_001420,NM_03 | **ELAVL3** | ELAV like RNA binding p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1996 | NM_001144774,NM | **ELAVL4** | ELAV like RNA binding p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 1997 | NM_001145353,NM | **ELF1** | E74 like ETS transcriptio | protein_coding | 74 | 64 | 75 | 65 | 0.864 |
| 1998 | NM_001276457,NM | **ELF2** | E74 like ETS transcriptio | protein_coding | 19 | 17 | 20 | 18 | 0.924 |
| 1999 | NM_001114309,NM | **ELF3** | E74 like ETS transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2000 | NM_001127197,NM | **ELF4** | E74 like ETS transcriptio | protein_coding | 84 | 87 | 85 | 88 | 1.027 |
| 2001 | NM_001243080,NM | **ELF5** | E74 like ETS transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2002 | NM_001114123,NM | **ELK1** | ETS transcription factor E | protein_coding | 53 | 54 | 54 | 55 | 1.014 |
| 2003 | NR_046211 | **ELK2AP** | ETS transcription factor E | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2004 | NM_001303511,NM | **ELK3** | ETS transcription factor E | protein_coding | 5 | 5 | 6 | 6 | 0.913 |
| 2005 | NM_001973,NM_02 | **ELK4** | ETS transcription factor E | protein_coding | 24 | 18 | 25 | 19 | 0.756 |
| 2006 | NM_000501,NM_00 | **ELN** | elastin | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 2009 | NM_001008707,NM | **EML1** | EMAP like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2010 | NM_000117,XM_02 | **EMD** | emerin | protein_coding | 138 | 154 | 139 | 155 | 1.112 |
| 2011 | NM_001039469,NM | **MARK2** | microtubule affinity regul | protein_coding | 56 | 39 | 57 | 40 | 0.696 |
| 2012 | NM_001423,XM_02 | **EMP1** | epithelial membrane prot | protein_coding | 1 | 1 | 2 | 2 | 0.978 |
| 2013 | NM_001424,XM_00 | **EMP2** | epithelial membrane prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2014 | NM_001313905,NM | **EMP3** | epithelial membrane prot | protein_coding | 166 | 175 | 167 | 176 | 1.051 |
| 2015 | NM_001256252,NM | **ADGRE1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2016 | NM_004097,XM_00 | **EMX1** | empty spiracles homeob | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2017 | NM_001184740,NM | **CTTN** | cortactin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2018 | NM_001165924,NM | **EMX2** | empty spiracles homeob | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2019 | NM_001426 | **EN1** | engrailed homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2020 | NM_001427 | **EN2** | engrailed homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2021 | NM_004435,XM_01 | **ENDOG** | endonuclease G | protein_coding | 3 | 4 | 4 | 5 | 1.174 |
| 2022 | NM_000118,NM_00 | **ENG** | endoglin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2023 | NM_001201483,NM | **ENO1** | enolase 1 | protein_coding | 4,083 | 4,284 | 4,084 | 4,285 | 1.049 |
| 2025 | gene-ENO1P1 | **ENO1P1** | enolase 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2026 | NM_001975 | **ENO2** | enolase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2027 | NM_001193503,NM | **ENO3** | enolase 3 | protein_coding | 6 | 4 | 7 | 5 | 0.762 |
| 2028 | NM_001379611,NM | **ENPEP** | glutamyl aminopeptidase | protein_coding | 26 | 25 | 27 | 26 | 0.979 |
| 2029 | NM_004436,NM_20 | **ENSA** | endosulfine alpha | protein_coding | 392 | 415 | 393 | 416 | 1.059 |
| 2030 | NM_001078175,NM | **SLC29A1** | solute carrier family 29 m | protein_coding | 126 | 135 | 127 | 136 | 1.067 |
| 2033 | NM_001362843,NM | **EP300** | E1A binding protein p30( | protein_coding | 39 | 32 | 40 | 33 | 0.826 |
| 2034 | NM_001430,XM_01 | **EPAS1** | endothelial PAS domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2035 | NM_001166005,NM | **EPB41** | erythrocyte membrane p | protein_coding | 93 | 86 | 94 | 87 | 0.924 |
| 2036 | NM_001258329,NM | **EPB41L1** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.099 |
| 2037 | NM_001135554,NM | **EPB41L2** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2038 | NM_000119,NM_00 | **EPB42** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2039 | NM_001114135,NM | **DMTN** | dematin actin binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2040 | NM_001270526,NM | **STOM** | stomatin | protein_coding | 163 | 148 | 164 | 149 | 0.908 |
| 2041 | NM_005232,XM_00 | **EPHA1** | EPH receptor A1 | protein_coding | 13 | 3 | 14 | 4 | 0.317 |
| 2042 | NM_005233,NM_18 | **EPHA3** | EPH receptor A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2043 | NM_001304536,NM | **EPHA4** | EPH receptor A4 | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 2044 | NM_001281765,NM | **EPHA5** | EPH receptor A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2045 | NM_001288629,NM | **EPHA7** | EPH receptor A7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2046 | NM_001006943,NM | **EPHA8** | EPH receptor A8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2047 | NM_004441,XM_01 | **EPHB1** | EPH receptor B1 | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 2048 | NM_001309192,NM | **EPHB2** | EPH receptor B2 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 2049 | NM_004443 | **EPHB3** | EPH receptor B3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2050 | NM_004444,XM_01 | **EPHB4** | EPH receptor B4 | protein_coding | 0 | 1 | 1 | 2 | 1.152 |
| 2051 | NM_001280794,NM | **EPHB6** | EPH receptor B6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2052 | NM_000120,NM_00 | **EPHX1** | epoxide hydrolase 1 | protein_coding | 0 | 0 | 1 | 1 | 0.873 |
| 2053 | NM_001256482,NM | **EPHX2** | epoxide hydrolase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 2054 | NM_001351049,NM | **STX2** | syntaxin 2 | protein_coding | 3 | 3 | 4 | 4 | 0.954 |
| 2055 | NM_018941,XM_00 | **CLN8** | CLN8 transmembrane EI | protein_coding | 8 | 6 | 9 | 7 | 0.809 |
| 2056 | NM_000799 | **EPO** | erythropoietin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2057 | NM_000121,NR_03 | **EPOR** | erythropoietin receptor | protein_coding | 3 | 3 | 4 | 4 | 0.870 |
| 2058 | NM_004446,XM_01 | **EPRS1** | glutamyl-prolyl-tRNA syn | protein_coding | 144 | 131 | 145 | 132 | 0.914 |
| 2059 | NM_004447,XM_01 | **EPS8** | epidermal growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 2060 | NM_001159969,NM | **EPS15** | epidermal growth factor r | protein_coding | 38 | 35 | 39 | 36 | 0.913 |
| 2063 | NM_005234 | **NR2F6** | nuclear receptor subfam | protein_coding | 2 | 2 | 3 | 3 | 1.077 |
| 2064 | NM_001005862,NM | **ERBB2** | erb-b2 receptor tyrosine | protein_coding | 2 | 3 | 3 | 4 | 1.370 |
| 2065 | NM_001005915,NM | **ERBB3** | erb-b2 receptor tyrosine | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 2066 | NM_001042599,NM | **ERBB4** | erb-b2 receptor tyrosine | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2067 | NM_001166049,NM | **ERCC1** | ERCC excision repair 1, | protein_coding | 49 | 53 | 50 | 54 | 1.080 |
| 2068 | NM_000400,NM_00 | **ERCC2** | ERCC excision repair 2, | protein_coding | 8 | 7 | 9 | 8 | 0.911 |
| 2069 | NM_001432 | **EREG** | epiregulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2070 | NM_001301012,NM | **EYA4** | EYA transcriptional coac | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 2071 | NM_000122,NM_00 | **ERCC3** | ERCC excision repair 3, | protein_coding | 70 | 63 | 71 | 64 | 0.909 |
| 2072 | NM_005236,XM_01 | **ERCC4** | ERCC excision repair 4, | protein_coding | 4 | 3 | 5 | 4 | 0.871 |
| 2073 | NM_000123 | **ERCC5** | ERCC excision repair 5, | protein_coding | 34 | 30 | 35 | 31 | 0.902 |
| 2074 | NM_000124,NM_00 | **ERCC6** | ERCC excision repair 6, | protein_coding | 3 | 3 | 4 | 4 | 0.964 |
| 2077 | NM_001301035,NM | **ERF** | ETS2 repressor factor | protein_coding | 37 | 39 | 38 | 40 | 1.052 |
| 2078 | NM_001136154,NM | **ERG** | ETS transcription factor I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2079 | NM_004450 | **ERH** | ERH mRNA splicing and | protein_coding | 614 | 638 | 615 | 639 | 1.039 |
| 2081 | NM_001433,XM_01 | **ERN1** | endoplasmic reticulum to | protein_coding | 2 | 1 | 3 | 2 | 0.901 |
| 2086 | NM_001007253,NR | **ERV3-1** | endogenous retrovirus g | protein_coding | 9 | 9 | 10 | 10 | 1.026 |
| 2091 | NM_001436,XM_00 | **FBL** | fibrillarin | protein_coding | 718 | 740 | 719 | 741 | 1.030 |
| 2098 | NM_001984,XM_00 | **ESD** | esterase D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2099 | NM_000125,NM_00 | **ESR1** | estrogen receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 2100 | NM_001040275,NM | **ESR2** | estrogen receptor 2 | protein_coding | 1 | 1 | 2 | 2 | 0.924 |
| 2101 | NM_001282450,NM | **ESRRA** | estrogen related recepto | protein_coding | 68 | 68 | 69 | 69 | 1.012 |
| 2103 | NM_001379180,NM | **ESRRB** | estrogen related recepto | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 2104 | NM_001134285,NM | **ESRRG** | estrogen related recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2107 | NM_001256302,NM | **ETF1** | eukaryotic translation ter | protein_coding | 237 | 227 | 238 | 228 | 0.956 |
| 2108 | NM_000126,NM_00 | **ETFA** | electron transfer flavopro | protein_coding | 188 | 185 | 189 | 186 | 0.984 |
| 2109 | NM_001014763,NM | **ETFB** | electron transfer flavopro | protein_coding | 155 | 182 | 156 | 183 | 1.178 |
| 2110 | NM_001281737,NM | **ETFDH** | electron transfer flavopro | protein_coding | 11 | 8 | 12 | 9 | 0.769 |
| 2113 | NM_001143820,NM | **ETS1** | ETS proto-oncogene 1, t | protein_coding | 284 | 278 | 285 | 279 | 0.978 |
| 2114 | NM_001256295,NM | **ETS2** | ETS proto-oncogene 2, t | protein_coding | 26 | 22 | 27 | 23 | 0.837 |
| 2115 | NM_001163147,NM | **ETV1** | ETS variant transcription | protein_coding | 1 | 1 | 2 | 2 | 0.817 |
| 2116 | NM_001300974,NM | **ETV2** | ETS variant transcription | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 2117 | NM_001145312,NM | **ETV3** | ETS variant transcription | protein_coding | 20 | 19 | 21 | 20 | 0.942 |
| 2118 | NM_001079675,NM | **ETV4** | ETS variant transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2119 | NM_004454 | **ETV5** | ETS variant transcription | protein_coding | 8 | 7 | 9 | 8 | 0.945 |
| 2120 | NM_001987,XM_01 | **ETV6** | ETS variant transcription | protein_coding | 5 | 4 | 6 | 5 | 0.938 |
| 2121 | NM_001306090,NM | **EVC** | EvC ciliary complex subu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2122 | NM_001105077,NM | **MECOM** | MDS1 and EVI1 complex | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2123 | NM_001003927,NM | **EVI2A** | ecotropic viral integration | protein_coding | 21 | 18 | 22 | 19 | 0.858 |
| 2124 | NM_006495,XM_00 | **EVI2B** | ecotropic viral integration | protein_coding | 88 | 79 | 89 | 80 | 0.901 |
| 2125 | NM_001320747,NM | **EVPL** | envoplakin | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 2128 | NM_001304519,NM | **EVX1** | even-skipped homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2130 | NM_001163285,NM | **EWSR1** | EWS RNA binding protei | protein_coding | 429 | 441 | 430 | 442 | 1.028 |
| 2131 | NM_000127 | **EXT1** | exostosin glycosyltransfe | protein_coding | 2 | 2 | 3 | 3 | 1.071 |
| 2132 | NM_000401,NM_00 | **EXT2** | exostosin glycosyltransfe | protein_coding | 17 | 16 | 18 | 17 | 0.959 |
| 2134 | NM_004455,XM_00 | **EXTL1** | exostosin like glycosyltra | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 2135 | NM_001033025,NM | **EXTL2** | exostosin like glycosyltra | protein_coding | 12 | 10 | 13 | 11 | 0.820 |
| 2137 | NM_001440,NR_07 | **EXTL3** | exostosin like glycosyltra | protein_coding | 5 | 4 | 6 | 5 | 0.811 |
| 2138 | NM_000503,NM_00 | **EYA1** | EYA transcriptional coac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2139 | NM_005244,NM_17 | **EYA2** | EYA transcriptional coac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2140 | NM_001282560,NM | **EYA3** | EYA transcriptional coac | protein_coding | 55 | 49 | 56 | 50 | 0.888 |
| 2145 | NM_001321079,NM | **EZH1** | enhancer of zeste 1 poly | protein_coding | 10 | 9 | 11 | 10 | 0.881 |
| 2146 | NM_001203247,NM | **EZH2** | enhancer of zeste 2 poly | protein_coding | 103 | 100 | 104 | 101 | 0.977 |
| 2147 | NM_000506 | **F2** | coagulation factor II, thro | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 2149 | NM_001311313,NM | **F2R** | coagulation factor II thro | protein_coding | 86 | 79 | 87 | 80 | 0.920 |
| 2150 | NM_005242,XM_01 | **F2RL1** | F2R like trypsin receptor | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 2151 | NM_001256566,NM | **F2RL2** | coagulation factor II thro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2152 | NM_001178096,NM | **F3** | coagulation factor III, tiss | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2153 | NM_000130,XM_01 | **F5** | coagulation factor V | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2155 | NM_000131,NM_00 | **F7** | coagulation factor VII | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2157 | NM_000132,NM_01 | **F8** | coagulation factor VIII | protein_coding | 2 | 1 | 3 | 2 | 0.597 |
| 2158 | NM_000133,NM_00 | **F9** | coagulation factor IX | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2159 | NM_000504,NM_00 | **F10** | coagulation factor X | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2160 | NM_000128,NM_00 | **F11** | coagulation factor XI | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 2161 | NM_000505,XM_01 | **F12** | coagulation factor XII | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2162 | NM_000129 | **F13A1** | coagulation factor XIII A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2165 | NM_001994,XM_01 | **F13B** | coagulation factor XIII B | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 2166 | NM_001441 | **FAAH** | fatty acid amide hydrolas | protein_coding | 1 | 1 | 2 | 2 | 0.918 |
| 2167 | NM_001442 | **FABP4** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2168 | NM_001443 | **FABP1** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2169 | NM_000134 | **FABP2** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2170 | NM_001320996,NM | **FABP3** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2171 | NM_001444 | **FABP5** | fatty acid binding protein | protein_coding | 661 | 663 | 662 | 664 | 1.002 |
| 2172 | NM_001040442,NM | **FABP6** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2173 | NM_001319039,NM | **FABP7** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2175 | NM_000135,NM_00 | **FANCA** | FA complementation gro | protein_coding | 26 | 29 | 27 | 30 | 1.092 |
| 2176 | NM_000136,NM_00 | **FANCC** | FA complementation gro | protein_coding | 15 | 14 | 16 | 15 | 0.954 |
| 2177 | NM_001018115,NM | **FANCD2** | FA complementation gro | protein_coding | 30 | 29 | 31 | 30 | 0.951 |
| 2178 | NM_021922,XM_00 | **FANCE** | FA complementation gro | protein_coding | 20 | 23 | 21 | 24 | 1.125 |
| 2180 | NM_001286708,NM | **ACSL1** | acyl-CoA synthetase lon | protein_coding | 88 | 70 | 89 | 71 | 0.804 |
| 2181 | NM_001354158,NM | **ACSL3** | acyl-CoA synthetase lon | protein_coding | 55 | 51 | 56 | 52 | 0.928 |
| 2182 | NM_001318509,NM | **ACSL4** | acyl-CoA synthetase lon | protein_coding | 69 | 60 | 70 | 61 | 0.866 |
| 2184 | NM_000137,NM_00 | **FAH** | fumarylacetoacetate hyd | protein_coding | 147 | 145 | 148 | 146 | 0.984 |
| 2185 | NM_004103,NM_17 | **PTK2B** | protein tyrosine kinase 2 | protein_coding | 102 | 103 | 103 | 104 | 1.013 |
| 2186 | NM_004459,NM_18 | **BPTF** | bromodomain PHD finge | protein_coding | 25 | 21 | 26 | 22 | 0.850 |
| 2187 | NM_001018113,NM | **FANCB** | FA complementation gro | protein_coding | 13 | 8 | 14 | 9 | 0.685 |
| 2188 | NM_022725 | **FANCF** | FA complementation gro | protein_coding | 31 | 29 | 32 | 30 | 0.941 |
| 2189 | NM_004629 | **FANCG** | FA complementation gro | protein_coding | 29 | 29 | 30 | 30 | 1.014 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2191 | NM_001291807,NM | **FAP** | fibroblast activation prote | protein_coding | 0 | 0 | 1 | 1 | 0.875 |
| 2192 | NM_001996,NM_00 | **FBLN1** | fibulin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2193 | NM_004461 | **FARSA** | phenylalanyl-tRNA synth | protein_coding | 232 | 247 | 233 | 248 | 1.067 |
| 2194 | NM_004104,XM_01 | **FASN** | fatty acid synthase | protein_coding | 117 | 119 | 118 | 120 | 1.018 |
| 2195 | NM_005245,XM_00 | **FAT1** | FAT atypical cadherin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2196 | NM_001447,XM_00 | **FAT2** | FAT atypical cadherin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 2197 | NM_001997 | **FAU** | FAU ubiquitin like and rit | protein_coding | 1,444 | 1,521 | 1,445 | 1,522 | 1.054 |
| 2199 | NM_001004019,NM | **FBLN2** | fibulin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2200 | NM_000138 | **FBN1** | fibrillin 1 | protein_coding | 1 | 1 | 2 | 2 | 0.847 |
| 2201 | NM_001999,XM_01 | **FBN2** | fibrillin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2202 | NM_001039348,NM | **EFEMP1** | EGF containing fibulin e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2203 | NM_000507,NM_00 | **FBP1** | fructose-bisphosphatase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2204 | NM_002000,NM_13 | **FCAR** | Fc fragment of IgA recep | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 2205 | NM_002001 | **FCER1A** | Fc fragment of IgE recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2206 | NM_000139,NM_00 | **MS4A2** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2207 | NM_004106 | **FCER1G** | Fc fragment of IgE recep | protein_coding | 8 | 7 | 9 | 8 | 0.918 |
| 2208 | NM_001207019,NM | **FCER2** | Fc fragment of IgE recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2209 | NM_000566,NM_00 | **FCGR1A** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 0.911 |
| 2210 | NR_045213,NR_16 | **FCGR1B** | Fc fragment of IgG recep | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2212 | NM_001136219,NM | **FCGR2A** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2213 | NM_001002273,NM | **FCGR2B** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 2214 | NM_000569,NM_00 | **FCGR3A** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 2215 | NM_000570,NM_00 | **FCGR3B** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 2216 | gene-FDX1P2 | **FDX1P2** | ferredoxin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2217 | NM_001136019,NM | **FCGRT** | Fc fragment of IgG recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2218 | NM_001079802,NM | **FKTN** | fukutin | protein_coding | 11 | 10 | 12 | 11 | 0.867 |
| 2219 | NM_002003 | **FCN1** | ficolin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2220 | NM_004108,NM_01 | **FCN2** | ficolin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2222 | NM_001287742,NM | **FDFT1** | farnesyl-diphosphate far | protein_coding | 117 | 110 | 118 | 111 | 0.935 |
| 2224 | NM_001135821,NM | **FDPS** | farnesyl diphosphate syr | protein_coding | 323 | 329 | 324 | 330 | 1.020 |
| 2227 | gene-FDPSP3 | **FDPSP3** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.195 |
| 2228 | gene-FDPSP4 | **FDPSP4** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 0.926 |
| 2229 | gene-FDPSP5 | **FDPSP5** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2230 | NM_004109 | **FDX1** | ferredoxin 1 | protein_coding | 25 | 23 | 26 | 24 | 0.918 |
| 2231 | gene-FDX1P1 | **FDX1P1** | ferredoxin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 2232 | NM_001258012,NM | **FDXR** | ferredoxin reductase | protein_coding | 11 | 11 | 12 | 12 | 0.927 |
| 2235 | NM_000140,NM_00 | **FECH** | ferrochelatase | protein_coding | 9 | 8 | 10 | 9 | 0.894 |
| 2236 | gene-FECHP1 | **FECHP1** | ferrochelatase pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2237 | NM_004111 | **FEN1** | flap structure-specific en | protein_coding | 281 | 294 | 282 | 295 | 1.047 |
| 2239 | NM_001448 | **GPC4** | glypican 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2241 | NM_001308028,NM | **FER** | FER tyrosine kinase | protein_coding | 14 | 12 | 15 | 13 | 0.901 |
| 2242 | NM_001143783,NM | **FES** | FES proto-oncogene, tyr | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 2243 | NM_000508,NM_02 | **FGA** | fibrinogen alpha chain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2244 | NM_001184741,NM | **FGB** | fibrinogen beta chain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2245 | NM_004463 | **FGD1** | FYVE, RhoGEF and PH | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 2246 | NM_000800,NM_00 | **FGF1** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2247 | NM_001361665,NM | **FGF2** | fibroblast growth factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2248 | NM_005247 | **FGF3** | fibroblast growth factor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2249 | NM_002007 | **FGF4** | fibroblast growth factor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2250 | NM_001291812,NM | **FGF5** | fibroblast growth factor 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2251 | NM_020996,XM_01 | **FGF6** | fibroblast growth factor 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2252 | NM_002009 | **FGF7** | fibroblast growth factor 7 | protein_coding | 0 | 0 | 1 | 1 | 0.904 |
| 2253 | NM_001206389,NM | **FGF8** | fibroblast growth factor 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2254 | NM_002010,XM_01 | **FGF9** | fibroblast growth factor 9 | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 2255 | NM_004465,XM_00 | **FGF10** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2256 | NM_001303460,NM | **FGF11** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 2257 | NM_001377292,NM | **FGF12** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2258 | NM_001139498,NM | **FGF13** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2259 | NM_001321931,NM | **FGF14** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 2260 | NM_001174063,NM | **FGFR1** | fibroblast growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2261 | NM_000142,NM_00 | **FGFR3** | fibroblast growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2262 | NM_004466,XM_01 | **GPC5** | glypican 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2263 | NM_000141,NM_00 | **FGFR2** | fibroblast growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2264 | NM_001291980,NM | **FGFR4** | fibroblast growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2266 | NM_000509,NM_02 | **FGG** | fibrinogen gamma chain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2267 | NM_004467,NM_14 | **FGL1** | fibrinogen like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2268 | NM_001042729,NM | **FGR** | FGR proto-oncogene, Sr | protein_coding | 205 | 200 | 206 | 201 | 0.978 |
| 2271 | NM_000143,XM_01 | **FH** | fumarate hydratase | protein_coding | 144 | 141 | 145 | 142 | 0.980 |
| 2272 | NM_001166243,NM | **FHIT** | fragile histidine triad diac | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 2273 | NM_001159699,NM | **FHL1** | four and a half LIM doma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2274 | NM_001039492,NM | **FHL2** | four and a half LIM doma | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 2275 | NM_001243878,NM | **FHL3** | four and a half LIM doma | protein_coding | 0 | 0 | 1 | 1 | 1.108 |
| 2277 | NM_004469 | **VEGFD** | vascular endothelial grov | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2280 | NM_000801,NM_00 | **FKBP1A** | FKBP prolyl isomerase 1 | protein_coding | 661 | 680 | 662 | 681 | 1.029 |
| 2281 | NM_001322963,NM | **FKBP1B** | FKBP prolyl isomerase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2282 | NR_024162 | **FKBP1AP1** | FKBP prolyl isomerase 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2283 | gene-FKBP1AP2 | **FKBP1AP2** | FKBP prolyl isomerase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2284 | gene-FKBP1AP3 | **FKBP1AP3** | FKBP prolyl isomerase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2285 | gene-FKBP1AP4 | **FKBP1AP4** | FKBP prolyl isomerase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 2286 | NM_001135208,NM | **FKBP2** | FKBP prolyl isomerase 2 | protein_coding | 105 | 95 | 106 | 96 | 0.910 |
| 2287 | NM_002013,XM_01 | **FKBP3** | FKBP prolyl isomerase 3 | protein_coding | 120 | 117 | 121 | 118 | 0.978 |
| 2288 | NM_002014,XM_01 | **FKBP4** | FKBP prolyl isomerase 4 | protein_coding | 114 | 115 | 115 | 116 | 1.007 |
| 2289 | NM_001145775,NM | **FKBP5** | FKBP prolyl isomerase 5 | protein_coding | 202 | 186 | 203 | 187 | 0.923 |
| 2290 | NM_005249 | **FOXG1** | forkhead box G1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2294 | NM_001451 | **FOXF1** | forkhead box F1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2295 | NM_001452 | **FOXF2** | forkhead box F2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2296 | NM_001453 | **FOXC1** | forkhead box C1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2297 | NM_004472 | **FOXD1** | forkhead box D1 | protein_coding | 3 | 3 | 4 | 4 | 1.031 |
| 2298 | NM_207305 | **FOXD4** | forkhead box D4 | protein_coding | 3 | 3 | 4 | 4 | 1.175 |
| 2299 | NM_012188,NM_14 | **FOXI1** | forkhead box I1 | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 2300 | NM_005250 | **FOXL1** | forkhead box L1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2301 | NM_012186 | **FOXE3** | forkhead box E3 | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 2302 | NM_001454 | **FOXJ1** | forkhead box J1 | protein_coding | 2 | 1 | 3 | 2 | 0.818 |
| 2303 | NM_005251 | **FOXC2** | forkhead box C2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2304 | NM_004473 | **FOXE1** | forkhead box E1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2305 | NM_001243088,NM | **FOXM1** | forkhead box M1 | protein_coding | 67 | 67 | 68 | 68 | 0.996 |
| 2306 | NM_004474 | **FOXD2** | forkhead box D2 | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 2307 | NM_004118 | **FOXS1** | forkhead box S1 | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 2308 | NM_002015,XM_01 | **FOXO1** | forkhead box O1 | protein_coding | 0 | 1 | 1 | 2 | 1.209 |
| 2309 | NM_001455,NM_20 | **FOXO3** | forkhead box O3 | protein_coding | 16 | 14 | 17 | 15 | 0.838 |
| 2310 | NM_001368134,NM | **FOXO3B** | forkhead box O3B | protein_coding | 3 | 3 | 4 | 4 | 1.027 |
| 2311 | gene-FOXO1B | **FOXO1B** | forkhead box O1B (pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2312 | NM_002016 | **FLG** | filaggrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2313 | NM_001167681,NM | **FLI1** | Fli-1 proto-oncogene, ET | protein_coding | 54 | 52 | 55 | 53 | 0.952 |
| 2314 | NM_001256264,NM | **FLII** | FLII actin remodeling prc | protein_coding | 36 | 34 | 37 | 35 | 0.961 |
| 2315 | NM_005511 | **MLANA** | melan-A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2316 | NM_001110556,NM | **FLNA** | filamin A | protein_coding | 608 | 611 | 609 | 612 | 1.004 |
| 2317 | NM_001164317,NM | **FLNB** | filamin B | protein_coding | 9 | 8 | 10 | 9 | 0.929 |
| 2318 | NM_001127487,NM | **FLNC** | filamin C | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 2319 | NM_001330170,NM | **FLOT2** | flotillin 2 | protein_coding | 87 | 92 | 88 | 93 | 1.052 |
| 2321 | NM_001159920,NM | **FLT1** | fms related receptor tyro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2322 | NM_004119,NR_13 | **FLT3** | fms related receptor tyro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2323 | NM_001204502,NM | **FLT3LG** | fms related receptor tyro | protein_coding | 87 | 93 | 88 | 94 | 1.069 |
| 2324 | NM_001354989,NM | **FLT4** | fms related receptor tyro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2326 | NM_001282692,NM | **FMO1** | flavin containing dimethy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2327 | NM_001301347,NM | **FMO2** | flavin containing dimethy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2328 | NM_001002294,NM | **FMO3** | flavin containing dimethy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2329 | NM_002022,XM_00 | **FMO4** | flavin containing dimethy | protein_coding | 2 | 2 | 3 | 3 | 0.972 |
| 2330 | NM_001144829,NM | **FMO5** | flavin containing dimethy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2331 | NM_002023,NR_10 | **FMOD** | fibromodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2332 | NM_001185075,NM | **FMR1** | FMRP translational regul | protein_coding | 47 | 41 | 48 | 42 | 0.880 |
| 2334 | NM_001169122,NM | **AFF2** | AF4/FMR2 family membe | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 2335 | NM_001306129,NM | **FN1** | fibronectin 1 | protein_coding | 33 | 29 | 34 | 30 | 0.886 |
| 2339 | NM_002027,NR_03 | **FNTA** | farnesyltransferase, CAA | protein_coding | 112 | 111 | 113 | 112 | 0.985 |
| 2341 | gene-FNTAP2 | **FNTAP2** | farnesyltransferase, CAA | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2342 | NM_002028 | **FNTB** | farnesyltransferase, CAA | protein_coding | 7 | 7 | 8 | 8 | 1.008 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2346 | NM_001014986,NM | **FOLH1** | folate hydrolase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2348 | NM_000802,NM_01 | **FOLR1** | folate receptor alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2350 | NM_000803,NM_00 | **FOLR2** | folate receptor beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2352 | NM_000804,NM_00 | **FOLR3** | folate receptor gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2353 | NM_005252 | **FOS** | Fos proto-oncogene, AP- | protein_coding | 3 | 3 | 4 | 4 | 0.970 |
| 2354 | NM_001114171,NM | **FOSB** | FosB proto-oncogene, A | protein_coding | 1 | 1 | 2 | 2 | 1.060 |
| 2355 | NM_005253,XM_00 | **FOSL2** | FOS like 2, AP-1 transcri | protein_coding | 45 | 39 | 46 | 40 | 0.874 |
| 2356 | NM_001018078,NM | **FPGS** | folylpolyglutamate synth | protein_coding | 63 | 67 | 64 | 68 | 1.064 |
| 2357 | NM_001193306,NM | **FPR1** | formyl peptide receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2358 | NM_001005738,NM | **FPR2** | formyl peptide receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2359 | NM_002030,XM_01 | **FPR3** | formyl peptide receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2395 | NM_000144,NM_18 | **FXN** | frataxin | protein_coding | 7 | 7 | 8 | 8 | 1.034 |
| 2444 | NM_002031,XM_00 | **FRK** | fyn related Src family tyr | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 2475 | NM_004958,XM_00 | **MTOR** | mechanistic target of rap | protein_coding | 51 | 48 | 52 | 49 | 0.926 |
| 2483 | NM_004477,XM_01 | **FRG1** | FSHD region gene 1 | protein_coding | 151 | 151 | 152 | 152 | 1.002 |
| 2487 | NM_001463 | **FRZB** | frizzled related protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2488 | NM_000510,NM_00 | **FSHB** | follicle stimulating hormo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2491 | NM_001318521,NM | **CENPI** | centromere protein I | protein_coding | 18 | 18 | 19 | 19 | 0.997 |
| 2492 | NM_000145,NM_18 | **FSHR** | follicle stimulating hormo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2494 | NM_001276464,NM | **NR5A2** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2495 | NM_002032 | **FTH1** | ferritin heavy chain 1 | protein_coding | 411 | 440 | 412 | 441 | 1.071 |
| 2496 | gene-FTH1P1 | **FTH1P1** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2497 | gene-FTH1P2 | **FTH1P2** | ferritin heavy chain 1 pse | pseudogene | 2 | 1 | 3 | 2 | 0.627 |
| 2498 | NR_002201 | **FTH1P3** | ferritin heavy chain 1 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.082 |
| 2499 | gene-FTH1P4 | **FTH1P4** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2500 | gene-FTH1P7 | **FTH1P7** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 2501 | gene-FTH1P8 | **FTH1P8** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 2502 | gene-FTH1P10 | **FTH1P10** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.119 |
| 2503 | gene-FTH1P11 | **FTH1P11** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2504 | gene-FTH1P12 | **FTH1P12** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.295 |
| 2507 | gene-FTH1P15 | **FTH1P15** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.121 |
| 2508 | gene-FTH1P16 | **FTH1P16** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 2509 | gene-FTH1P5 | **FTH1P5** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 2510 | gene-FTH1P21 | **FTH1P21** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2512 | NM_000146,XM_02 | **FTL** | ferritin light chain | protein_coding | 732 | 816 | 733 | 817 | 1.115 |
| 2515 | NM_001278113,NM | **ADAM2** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2516 | NM_004959 | **NR5A1** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2517 | NM_000147,XM_00 | **FUCA1** | alpha-L-fucosidase 1 | protein_coding | 1 | 2 | 2 | 3 | 1.112 |
| 2518 | gene-FUCA1P1 | **FUCA1P1** | alpha-L-fucosidase 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2519 | NM_032020 | **FUCA2** | alpha-L-fucosidase 2 | protein_coding | 21 | 20 | 22 | 21 | 0.934 |
| 2520 | NM_000805 | **GAST** | gastrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2521 | NM_001170634,NM | **FUS** | FUS RNA binding protei | protein_coding | 641 | 837 | 642 | 838 | 1.305 |
| 2523 | NM_000148,NM_00 | **FUT1** | fucosyltransferase 1 (H b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2524 | NM_000511,NM_00 | **FUT2** | fucosyltransferase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2525 | NM_000149,NM_00 | **FUT3** | fucosyltransferase 3 (Le | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2526 | NM_002033 | **FUT4** | fucosyltransferase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 2527 | NM_002034 | **FUT5** | fucosyltransferase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 2528 | NM_000150,NM_00 | **FUT6** | fucosyltransferase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2529 | NM_004479 | **FUT7** | fucosyltransferase 7 | protein_coding | 12 | 14 | 13 | 15 | 1.174 |
| 2530 | NM_001371533,NM | **FUT8** | fucosyltransferase 8 | protein_coding | 12 | 13 | 13 | 14 | 1.107 |
| 2531 | NM_002035,XM_00 | **KDSR** | 3-ketodihydrosphingosin | protein_coding | 9 | 8 | 10 | 9 | 0.844 |
| 2532 | NM_001122951,NM | **ACKR1** | atypical chemokine rece | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2533 | NM_001243093,NM | **FYB1** | FYN binding protein 1 | protein_coding | 57 | 50 | 58 | 51 | 0.868 |
| 2534 | NM_001370529,NM | **FYN** | FYN proto-oncogene, Sr | protein_coding | 118 | 122 | 119 | 123 | 1.034 |
| 2535 | NM_001466 | **FZD2** | frizzled class receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 0.844 |
| 2537 | NM_002038,NM_02 | **IFI6** | interferon alpha inducibl | protein_coding | 849 | 880 | 850 | 881 | 1.037 |
| 2538 | NM_000151,NM_00 | **G6PC** | glucose-6-phosphatase c | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 2539 | NM_000402,NM_00 | **G6PD** | glucose-6-phosphate del | protein_coding | 291 | 309 | 292 | 310 | 1.059 |
| 2542 | NM_001164277,NM | **SLC37A4** | solute carrier family 37 m | protein_coding | 27 | 27 | 28 | 28 | 1.018 |
| 2543 | NM_001040663,NR | **GAGE1** | G antigen 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2547 | NM_001288976,NM | **XRCC6** | X-ray repair cross compl | protein_coding | 684 | 669 | 685 | 670 | 0.978 |
| 2548 | NM_000152,NM_00 | **GAA** | glucosidase alpha, acid | protein_coding | 1 | 2 | 2 | 3 | 1.388 |
| 2549 | NM_002039,NM_20 | **GAB1** | GRB2 associated binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2550 | NM_001319053,NM | **GABBR1** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2551 | NM_001197297,NM | **GABPA** | GA binding protein trans | protein_coding | 19 | 16 | 20 | 17 | 0.856 |
| 2553 | NM_001320910,NM | **GABPB1** | GA binding protein trans | protein_coding | 58 | 47 | 59 | 48 | 0.816 |
| 2554 | NM_000806,NM_00 | **GABRA1** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2555 | NM_000807,NM_00 | **GABRA2** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 2556 | NM_000808,XM_00 | **GABRA3** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2557 | NM_000809,NM_00 | **GABRA4** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 2558 | NM_000810,NM_00 | **GABRA5** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2559 | NM_000811 | **GABRA6** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2560 | NM_000812,XM_01 | **GABRB1** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2561 | NM_000813,NM_00 | **GABRB2** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2562 | NM_000814,NM_00 | **GABRB3** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2563 | NM_000815,XM_01 | **GABRD** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2564 | NM_004961,XM_01 | **GABRE** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2565 | NM_173536,XM_01 | **GABRG1** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2566 | NM_000816,NM_00 | **GABRG2** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2567 | NM_001270873,NM | **GABRG3** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2568 | NM_001291985,NM | **GABRP** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2569 | NM_001256703,NM | **GABRR1** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2570 | NM_002043,XM_01 | **GABRR2** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 0.831 |
| 2571 | NM_000817,NM_01 | **GAD1** | glutamate decarboxylase | protein_coding | 1 | 1 | 2 | 2 | 0.975 |
| 2572 | NM_000818,NM_00 | **GAD2** | glutamate decarboxylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2580 | NM_001318134,NM | **GAK** | cyclin G associated kina | protein_coding | 48 | 47 | 49 | 48 | 0.974 |
| 2581 | NM_000153,NM_00 | **GALC** | galactosylceramidase | protein_coding | 6 | 7 | 7 | 8 | 1.110 |
| 2582 | NM_000403,NM_00 | **GALE** | UDP-galactose-4-epimer | protein_coding | 55 | 54 | 56 | 55 | 0.988 |
| 2583 | NM_001276468,NM | **B4GALNT1** | beta-1,4-N-acetyl-galacto | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 2584 | NM_000154,NM_00 | **GALK1** | galactokinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2585 | NM_001001556,NM | **GALK2** | galactokinase 2 | protein_coding | 6 | 5 | 7 | 6 | 0.893 |
| 2587 | NM_001480,XM_01 | **GALR1** | galanin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2588 | NM_000512,NM_00 | **GALNS** | galactosamine (N-acetyl) | protein_coding | 2 | 1 | 3 | 2 | 0.741 |
| 2589 | NM_020474 | **GALNT1** | polypeptide N-acetylgala | protein_coding | 71 | 61 | 72 | 62 | 0.865 |
| 2590 | NM_001291866,NM | **GALNT2** | polypeptide N-acetylgala | protein_coding | 25 | 21 | 26 | 22 | 0.849 |
| 2591 | NM_004482,XM_00 | **GALNT3** | polypeptide N-acetylgala | protein_coding | 14 | 12 | 15 | 13 | 0.878 |
| 2592 | NM_000155,NM_00 | **GALT** | galactose-1-phosphate u | protein_coding | 4 | 5 | 5 | 6 | 1.173 |
| 2593 | NM_000156,NM_13 | **GAMT** | guanidinoacetate N-meth | protein_coding | 15 | 16 | 16 | 17 | 1.070 |
| 2595 | NM_001301409,NM | **GANC** | glucosidase alpha, neutr | protein_coding | 19 | 19 | 20 | 20 | 0.980 |
| 2596 | NM_001130064,NM | **GAP43** | growth associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2597 | NM_001256799,NM | **GAPDH** | glyceraldehyde-3-phospl | protein_coding | 4,381 | 4,619 | 4,382 | 4,620 | 1.054 |
| 2601 | gene-GAPDHP60 | **GAPDHP60** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2609 | gene-GAPDHP67 | **GAPDHP67** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2611 | gene-GAPDHP69 | **GAPDHP69** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2613 | gene-GAPDHP71 | **GAPDHP71** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2615 | NM_001128922,NM | **LRRC32** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2617 | NM_001316772,NM | **GARS1** | glycyl-tRNA synthetase 1 | protein_coding | 114 | 108 | 115 | 109 | 0.943 |
| 2618 | NM_000819,NM_00 | **GART** | phosphoribosylglycinami | protein_coding | 181 | 159 | 182 | 160 | 0.882 |
| 2619 | NM_002048 | **GAS1** | growth arrest specific 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2620 | NM_001143830,NM | **GAS2** | growth arrest specific 2 | protein_coding | 1 | 0 | 2 | 1 | 0.764 |
| 2621 | NM_000820 | **GAS6** | growth arrest specific 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2622 | NM_001286205,NM | **GAS8** | growth arrest specific 8 | protein_coding | 2 | 2 | 3 | 3 | 1.085 |
| 2623 | NM_002049,XM_01 | **GATA1** | GATA binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2624 | NM_001145661,NM | **GATA2** | GATA binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2625 | NM_001002295,NM | **GATA3** | GATA binding protein 3 | protein_coding | 10 | 12 | 11 | 13 | 1.139 |
| 2626 | NM_001308093,NM | **GATA4** | GATA binding protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2627 | NM_005257 | **GATA6** | GATA binding protein 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2628 | NM_001321015,NM | **GATM** | glycine amidinotransfera | protein_coding | 3 | 3 | 4 | 4 | 0.972 |
| 2629 | NM_000157,NM_00 | **GBA** | glucosylceramidase beta | protein_coding | 36 | 43 | 37 | 44 | 1.182 |
| 2630 | NR_002188 | **GBAP1** | glucosylceramidase beta | transcribed_pseu | 12 | 12 | 13 | 13 | 1.069 |
| 2631 | NM_001202469,NM | **NIPSNAP2** | nipsnap homolog 2 | protein_coding | 18 | 18 | 19 | 19 | 0.991 |
| 2632 | NM_000158 | **GBE1** | 1,4-alpha-glucan branch | protein_coding | 23 | 21 | 24 | 22 | 0.916 |
| 2633 | NM_002053,XM_02 | **GBP1** | guanylate binding protei | protein_coding | 166 | 144 | 167 | 145 | 0.869 |
| 2634 | NM_004120 | **GBP2** | guanylate binding protei | protein_coding | 55 | 52 | 56 | 53 | 0.952 |
| 2635 | NM_001319179,NM | **GBP3** | guanylate binding protei | protein_coding | 26 | 22 | 27 | 23 | 0.865 |
| 2636 | NM_001098834 | **GBX1** | gastrulation brain homec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2637 | NM_001301687,NM | **GBX2** | gastrulation brain homec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2638 | NM_000583,NM_00 | **GC** | GC vitamin D binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2639 | NM_000159,NM_01 | **GCDH** | glutaryl-CoA dehydroger | protein_coding | 20 | 22 | 21 | 23 | 1.086 |
| 2641 | NM_002054 | **GCG** | glucagon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2642 | NM_000160,XM_00 | **GCGR** | glucagon receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2643 | NM_000161,NM_00 | **GCH1** | GTP cyclohydrolase 1 | protein_coding | 154 | 127 | 155 | 128 | 0.827 |
| 2644 | NM_005258 | **GCHFR** | GTP cyclohydrolase I fee | protein_coding | 3 | 3 | 4 | 4 | 1.022 |
| 2645 | NM_000162,NM_00 | **GCK** | glucokinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2646 | NM_001486,XM_01 | **GCKR** | glucokinase regulator | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2647 | NM_001487,NR_03 | **BLOC1S1** | biogenesis of lysosomal | protein_coding | 64 | 68 | 65 | 69 | 1.071 |
| 2648 | NM_001376227,NM | **KAT2A** | lysine acetyltransferase 2 | protein_coding | 71 | 70 | 72 | 71 | 0.993 |
| 2649 | NM_001278546,NM | **NR6A1** | nuclear receptor subfam | protein_coding | 10 | 8 | 11 | 9 | 0.823 |
| 2650 | NM_001097633,NM | **GCNT1** | glucosaminyl (N-acetyl) t | protein_coding | 22 | 18 | 23 | 19 | 0.822 |
| 2651 | NM_001374747,NM | **GCNT2** | glucosaminyl (N-acetyl) t | protein_coding | 0 | 0 | 1 | 1 | 0.914 |
| 2652 | NM_000513 | **OPN1MW** | opsin 1, medium wave se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2653 | NM_004483,NR_03 | **GCSH** | glycine cleavage system | protein_coding | 39 | 41 | 40 | 42 | 1.048 |
| 2657 | NM_001492 | **GDF1** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2658 | NM_016204 | **GDF2** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2660 | NM_005259 | **MSTN** | myostatin | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 2661 | NM_001288824,NM | **GDF9** | growth differentiation fac | protein_coding | 1 | 0 | 2 | 1 | 0.760 |
| 2662 | NM_004962 | **GDF10** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2664 | NM_001493 | **GDI1** | GDP dissociation inhibitc | protein_coding | 97 | 97 | 98 | 98 | 0.999 |
| 2665 | NM_001115156,NM | **GDI2** | GDP dissociation inhibitc | protein_coding | 321 | 305 | 322 | 306 | 0.952 |
| 2667 | gene-GDI2P1 | **GDI2P1** | GDP dissociation inhibitc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2668 | NM_000514,NM_00 | **GDNF** | glial cell derived neurotrc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2669 | NM_005261,NM_18 | **GEM** | GTP binding protein ove | protein_coding | 86 | 77 | 87 | 78 | 0.890 |
| 2670 | NM_001131019,NM | **GFAP** | glial fibrillary acidic prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2671 | NM_005262 | **GFER** | growth factor, augmente | protein_coding | 23 | 26 | 24 | 27 | 1.118 |
| 2672 | NM_001127215,NM | **GFI1** | growth factor independe | protein_coding | 19 | 17 | 20 | 18 | 0.906 |
| 2673 | NM_001244710,NM | **GFPT1** | glutamine--fructose-6-ph | protein_coding | 32 | 27 | 33 | 28 | 0.832 |
| 2674 | NM_001145453,NM | **GFRA1** | GDNF family receptor alp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2675 | NM_001165038,NM | **GFRA2** | GDNF family receptor alp | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 2676 | NM_001496 | **GFRA3** | GDNF family receptor alp | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 2677 | NM_000821,NM_00 | **GGCX** | gamma-glutamyl carbox | protein_coding | 8 | 8 | 9 | 9 | 0.970 |
| 2678 | NM_001288833,NM | **GGT1** | gamma-glutamyltransfer | protein_coding | 3 | 3 | 4 | 4 | 1.041 |
| 2679 | NR_003267 | **GGT3P** | gamma-glutamyltransfer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2681 | NM_001382584,NM | **GGTA1** | glycoprotein alpha-galac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2683 | NM_001378495,NM | **B4GALT1** | beta-1,4-galactosyltransf | protein_coding | 30 | 28 | 31 | 29 | 0.934 |
| 2686 | NM_001351702,NM | **GGT7** | gamma-glutamyltransfer | protein_coding | 7 | 7 | 8 | 8 | 1.011 |
| 2687 | NM_001099781,NM | **GGT5** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2688 | NM_000515,NM_02 | **GH1** | growth hormone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2689 | NM_002059,NM_02 | **GH2** | growth hormone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2690 | NM_000163,NM_00 | **GHR** | growth hormone recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2691 | NM_001184731,NM | **GHRH** | growth hormone releasin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2692 | NM_000823 | **GHRHR** | growth hormone releasin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2693 | NM_004122,NM_19 | **GHSR** | growth hormone secreta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2694 | NM_005142,XM_01 | **CBLIF** | cobalamin binding intrins | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2695 | NM_004123 | **GIP** | gastric inhibitory polypep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2696 | NM_000164,NM_00 | **GIPR** | gastric inhibitory polypep | protein_coding | 1 | 1 | 2 | 2 | 0.955 |
| 2697 | NM_000165 | **GJA1** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2698 | gene-GJA1P1 | **GJA1P1** | gap junction protein alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2700 | NM_021954,XM_01 | **GJA3** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2701 | NM_002060,XM_00 | **GJA4** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2702 | NM_005266,NM_18 | **GJA5** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2703 | NM_005267,XM_01 | **GJA8** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2705 | NM_000166,NM_00 | **GJB1** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2706 | NM_004004,XM_01 | **GJB2** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2707 | NM_001005752,NM | **GJB3** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2709 | NM_005268,XM_00 | **GJB5** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2710 | NM_000167,NM_00 | **GK** | glycerol kinase | protein_coding | 6 | 6 | 7 | 7 | 0.977 |
| 2712 | NM_033214 | **GK2** | glycerol kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2713 | NR_026575 | **GK3P** | glycerol kinase 3 pseudc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2717 | NM_000169,NR_16 | **GLA** | galactosidase alpha | protein_coding | 32 | 36 | 33 | 37 | 1.126 |
| 2719 | NM_001164617,NM | **GPC3** | glypican 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2720 | NM_000404,NM_00 | **GLB1** | galactosidase beta 1 | protein_coding | 22 | 22 | 23 | 23 | 0.996 |
| 2729 | NM_001197115,NM | **GCLC** | glutamate-cysteine ligas | protein_coding | 44 | 39 | 45 | 40 | 0.902 |
| 2730 | NM_001308253,NM | **GCLM** | glutamate-cysteine ligas | protein_coding | 16 | 15 | 17 | 16 | 0.911 |
| 2731 | NM_000170 | **GLDC** | glycine decarboxylase | protein_coding | 38 | 38 | 39 | 39 | 1.004 |
| 2732 | gene-GLDCP1 | **GLDCP1** | glycine decarboxylase ps | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 2733 | NM_001003722,NM | **GLE1** | GLE1 RNA export media | protein_coding | 63 | 63 | 64 | 64 | 1.004 |
| 2734 | NM_001145666,NM | **GLG1** | golgi glycoprotein 1 | protein_coding | 26 | 25 | 27 | 26 | 0.963 |
| 2735 | NM_001160045,NM | **GLI1** | GLI family zinc finger 1 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 2736 | NM_001371271,NM | **GLI2** | GLI family zinc finger 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2737 | NM_000168,XM_01 | **GLI3** | GLI family zinc finger 3 | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 2738 | NM_138465 | **GLI4** | GLI family zinc finger 4 | protein_coding | 4 | 4 | 5 | 5 | 0.988 |
| 2739 | NM_006708 | **GLO1** | glyoxalase I | protein_coding | 399 | 351 | 400 | 352 | 0.881 |
| 2740 | NM_002062,NR_13 | **GLP1R** | glucagon like peptide 1 r | protein_coding | 1 | 1 | 2 | 2 | 0.946 |
| 2741 | NM_000171,NM_00 | **GLRA1** | glycine receptor alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2742 | NM_001118885,NM | **GLRA2** | glycine receptor alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2743 | NM_000824,NM_00 | **GLRB** | glycine receptor beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2744 | NM_001256310,NM | **GLS** | glutaminase | protein_coding | 155 | 117 | 156 | 118 | 0.753 |
| 2745 | NM_001118890,NM | **GLRX** | glutaredoxin | protein_coding | 102 | 103 | 103 | 104 | 1.007 |
| 2746 | NM_001318900,NM | **GLUD1** | glutamate dehydrogenas | protein_coding | 160 | 161 | 161 | 162 | 1.005 |
| 2747 | NM_012084 | **GLUD2** | glutamate dehydrogenas | protein_coding | 0 | 1 | 1 | 2 | 1.055 |
| 2749 | NR_048575 | **GLUD1P3** | glutamate dehydrogenas | transcribed_pseu | 3 | 3 | 4 | 4 | 0.879 |
| 2750 | gene-GLUD1P4 | **GLUD1P4** | glutamate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2752 | NM_001033044,NM | **GLUL** | glutamate-ammonia ligas | protein_coding | 106 | 108 | 107 | 109 | 1.021 |
| 2753 | gene-GLULP1 | **GLULP1** | glutamate-ammonia ligas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2754 | gene-GLULP2 | **GLULP2** | glutamate-ammonia ligas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2760 | NM_000405,NM_00 | **GM2A** | GM2 ganglioside activat | protein_coding | 28 | 28 | 29 | 29 | 1.001 |
| 2761 | gene-GM2AP1 | **GM2AP1** | GM2 ganglioside activat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2762 | NM_001253846,NM | **GMDS** | GDP-mannose 4,6-dehy | protein_coding | 35 | 35 | 36 | 36 | 0.999 |
| 2764 | NM_004124 | **GMFB** | glia maturation factor bet | protein_coding | 52 | 44 | 53 | 45 | 0.865 |
| 2765 | NM_002066 | **GML** | glycosylphosphatidylinos | protein_coding | 1 | 0 | 2 | 1 | 0.643 |
| 2766 | NM_006877,XM_01 | **GMPR** | guanosine monophosph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2767 | NM_002067 | **GNA11** | G protein subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2768 | NM_001282440,NM | **GNA12** | G protein subunit alpha | protein_coding | 21 | 17 | 22 | 18 | 0.811 |
| 2769 | NM_002068 | **GNA15** | G protein subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 0.922 |
| 2770 | NM_001256414,NM | **GNAI1** | G protein subunit alpha i | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2771 | NM_001166425,NM | **GNAI2** | G protein subunit alpha i | protein_coding | 307 | 322 | 308 | 323 | 1.048 |
| 2772 | gene-GNAI2P1 | **GNAI2P1** | G protein subunit alpha i | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2773 | NM_006496 | **GNAI3** | G protein subunit alpha i | protein_coding | 57 | 51 | 58 | 52 | 0.901 |
| 2774 | NM_001142339,NM | **GNAL** | G protein subunit alpha l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2775 | NM_020988,NM_13 | **GNAO1** | G protein subunit alpha o | protein_coding | 4 | 4 | 5 | 5 | 0.949 |
| 2776 | NM_002072,XM_01 | **GNAQ** | G protein subunit alpha q | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 2777 | gene-GNAQP1 | **GNAQP1** | G protein subunit alpha q | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2778 | NM_000516,NM_00 | **GNAS** | GNAS complex locus | protein_coding | 1,098 | 1,140 | 1,099 | 1,141 | 1.038 |
| 2779 | NM_000172,NM_14 | **GNAT1** | G protein subunit alpha t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2780 | NM_001377295,NM | **GNAT2** | G protein subunit alpha t | protein_coding | 0 | 1 | 1 | 2 | 1.056 |
| 2781 | NM_002073,XM_01 | **GNAZ** | G protein subunit alpha z | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2782 | NM_001282538,NM | **GNB1** | G protein subunit beta 1 | protein_coding | 306 | 298 | 307 | 299 | 0.975 |
| 2783 | NM_005273 | **GNB2** | G protein subunit beta 2 | protein_coding | 205 | 203 | 206 | 204 | 0.992 |
| 2784 | NM_001297571,NM | **GNB3** | G protein subunit beta 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2785 | NM_012202,XM_00 | **GNG3** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2786 | NM_001098721,NM | **GNG4** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2787 | NM_005274 | **GNG5** | G protein subunit gamma | protein_coding | 403 | 421 | 404 | 422 | 1.045 |
| 2788 | NM_052847,XM_01 | **GNG7** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 2789 | gene-GNG5P1 | **GNG5P1** | G protein subunit gamma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2790 | NM_001017998,NM | **GNG10** | G protein subunit gamma | protein_coding | 3 | 3 | 4 | 4 | 1.024 |
| 2791 | NM_004126 | **GNG11** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2792 | NM_001329426,NM | **GNGT1** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2793 | NM_001198754,NM | **GNGT2** | G protein subunit gamma | protein_coding | 57 | 52 | 58 | 53 | 0.917 |
| 2794 | NM_005275,XM_00 | **GNL1** | G protein nucleolar 1 (p | protein_coding | 29 | 28 | 30 | 29 | 0.996 |
| 2796 | NM_000825,NM_00 | **GNRH1** | gonadotropin releasing h | protein_coding | 1 | 1 | 2 | 2 | 0.927 |
| 2797 | NM_001310220,NM | **GNRH2** | gonadotropin releasing h | protein_coding | 1 | 0 | 2 | 1 | 0.837 |
| 2798 | NM_000406,NM_00 | **GNRHR** | gonadotropin releasing h | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 2799 | NM_002076 | **GNS** | glucosamine (N-acetyl)-6 | protein_coding | 23 | 23 | 24 | 24 | 0.997 |
| 2800 | NM_002077,XM_005 | **GOLGA1** | golgin A1 | protein_coding | 9 | 9 | 10 | 10 | 1.000 |
| 2801 | NM_001366244,NM | **GOLGA2** | golgin A2 | protein_coding | 26 | 24 | 27 | 25 | 0.924 |
| 2802 | NM_001172557,NM | **GOLGA3** | golgin A3 | protein_coding | 12 | 10 | 13 | 11 | 0.892 |
| 2803 | NM_001172713,NM | **GOLGA4** | golgin A4 | protein_coding | 19 | 15 | 20 | 16 | 0.790 |
| 2804 | NM_001256486,NM | **GOLGB1** | golgin B1 | protein_coding | 11 | 10 | 12 | 11 | 0.869 |
| 2805 | NM_002079 | **GOT1** | glutamic-oxaloacetic tran | protein_coding | 96 | 94 | 97 | 95 | 0.976 |
| 2806 | NM_001286220,NM | **GOT2** | glutamic-oxaloacetic tran | protein_coding | 86 | 85 | 87 | 86 | 0.983 |
| 2810 | NM_006142 | **SFN** | stratifin | protein_coding | 0 | 0 | 1 | 1 | 0.943 |
| 2811 | NM_000173 | **GP1BA** | glycoprotein Ib platelet s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2812 | NM_000407 | **GP1BB** | glycoprotein Ib platelet s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2813 | NM_001007240,NM | **GP2** | glycoprotein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2814 | NM_004488 | **GP5** | glycoprotein V platelet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2815 | NM_000174,XM_005 | **GP9** | glycoprotein IX platelet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2817 | NM_002081,XM_01 | **GPC1** | glypican 1 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 2819 | NM_001257199,NM | **GPD1** | glycerol-3-phosphate del | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 2820 | NM_000408,NM_00 | **GPD2** | glycerol-3-phosphate del | protein_coding | 22 | 18 | 23 | 19 | 0.815 |
| 2821 | NM_000175,NM_00 | **GPI** | glucose-6-phosphate iso | protein_coding | 404 | 409 | 405 | 410 | 1.013 |
| 2822 | NM_001503,XM_01 | **GPLD1** | glycosylphosphatidylinos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2823 | NM_001261447,NM | **GPM6A** | glycoprotein M6A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2824 | NM_001001994,NM | **GPM6B** | glycoprotein M6B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2825 | NM_001098199,NM | **GPR1** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2826 | NM_016602 | **CCR10** | C-C motif chemokine rec | protein_coding | 1 | 0 | 2 | 1 | 0.675 |
| 2827 | NM_005281 | **GPR3** | G protein-coupled recep | protein_coding | 5 | 4 | 6 | 5 | 0.864 |
| 2828 | NM_005282,XM_01 | **GPR4** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 2829 | NM_001024644,NM | **XCR1** | X-C motif chemokine rec | protein_coding | 47 | 44 | 48 | 45 | 0.937 |
| 2830 | NM_001286099,NM | **GPR6** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2831 | NM_005285 | **NPBWR1** | neuropeptides B and W | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 2832 | NM_005286 | **NPBWR2** | neuropeptides B and W | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2833 | NM_001142797,NM | **CXCR3** | C-X-C motif chemokine r | protein_coding | 168 | 155 | 169 | 156 | 0.923 |
| 2834 | NM_004248 | **PRLHR** | prolactin releasing hormo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2835 | NM_005288,XM_005 | **GPR12** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2837 | NM_001381897,NM | **UTS2R** | urotensin 2 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 2838 | NM_005290 | **GPR15** | G protein-coupled recep | protein_coding | 192 | 160 | 193 | 161 | 0.833 |
| 2840 | NM_001161415,NM | **GPR17** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2841 | NM_001098200,NM | **GPR18** | G protein-coupled recep | protein_coding | 26 | 21 | 27 | 22 | 0.824 |
| 2842 | NM_006143,XM_01 | **GPR19** | G protein-coupled recep | protein_coding | 2 | 3 | 3 | 4 | 1.324 |
| 2843 | NM_005293 | **GPR20** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2844 | NM_005294,XM_005 | **GPR21** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2845 | NM_005295,XM_01 | **GPR22** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2846 | NM_001278000,NM | **LPAR4** | lysophosphatidic acid re | protein_coding | 0 | 0 | 1 | 1 | 0.937 |
| 2847 | NM_005297 | **MCHR1** | melanin concentrating ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2848 | NM_005298 | **GPR25** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.809 |
| 2849 | NM_153442 | **GPR26** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2850 | NM_018971 | **GPR27** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.063 |
| 2852 | NM_001039966,NM | **GPER1** | G protein-coupled estroc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2853 | NM_005299 | **GPR31** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2854 | NM_001506 | **GPR32** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2855 | gene-GPR32P1 | **GPR32P1** | GPR32 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2856 | NM_001197184 | **GPR33** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2857 | NM_001097579,NM | **GPR34** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2859 | NM_001195381,NM | **GPR35** | G protein-coupled recep | protein_coding | 1 | 1 | 2 | 2 | 1.082 |
| 2861 | NM_005302 | **GPR37** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2862 | NM_001507 | **MLNR** | motilin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2863 | NM_001508 | **GPR39** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2864 | NM_005303 | **FFAR1** | free fatty acid receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2865 | NM_005304,XM_01 | **FFAR3** | free fatty acid receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2866 | NM_001348195 | **GPR42** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2867 | NM_001370087,NM | **FFAR2** | free fatty acid receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2868 | NM_001004056,NM | **GRK4** | G protein-coupled recep | protein_coding | 1 | 1 | 2 | 2 | 0.829 |
| 2869 | NM_005308,XM_005 | **GRK5** | G protein-coupled recep | protein_coding | 19 | 19 | 20 | 20 | 1.038 |
| 2870 | NM_001004105,NM | **GRK6** | G protein-coupled recep | protein_coding | 114 | 122 | 115 | 123 | 1.072 |
| 2871 | NR_144554 | **GRK6P1** | G protein-coupled recep | transcribed_pseu | 0 | 0 | 1 | 1 | 1.006 |
| 2872 | NM_017572,NM_19 | **MKNK2** | MAPK interacting serine/ | protein_coding | 48 | 50 | 49 | 51 | 1.038 |
| 2873 | NM_001321089,NM | **GPS1** | G protein pathway suppr | protein_coding | 110 | 117 | 111 | 118 | 1.057 |
| 2874 | NM_004489 | **GPS2** | G protein pathway suppr | protein_coding | 70 | 83 | 71 | 84 | 1.187 |
| 2875 | NM_001382664,NM | **GPT** | glutamic--pyruvic transar | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 2876 | NM_000581,NM_00 | **GPX1** | glutathione peroxidase 1 | protein_coding | 153 | 160 | 154 | 161 | 1.044 |
| 2877 | NM_002083,NR_04 | **GPX2** | glutathione peroxidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2878 | NM_001329790,NM | **GPX3** | glutathione peroxidase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2879 | NM_001039847,NM | **GPX4** | glutathione peroxidase 4 | protein_coding | 100 | 108 | 101 | 109 | 1.081 |
| 2880 | NM_001509,NM_00 | **GPX5** | glutathione peroxidase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2882 | NM_015696 | **GPX7** | glutathione peroxidase 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2884 | gene-GPX1P2 | **GPX1P2** | glutathione peroxidase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2885 | NM_002086,NM_20 | **GRB2** | growth factor receptor bc | protein_coding | 142 | 133 | 143 | 134 | 0.935 |
| 2886 | NM_001030002,NM | **GRB7** | growth factor receptor bc | protein_coding | 0 | 0 | 1 | 1 | 0.841 |
| 2887 | NM_001001549,NM | **GRB10** | growth factor receptor bc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2888 | NM_001303422,NM | **GRB14** | growth factor receptor bc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2889 | NM_001304275,NM | **RAPGEF1** | Rap guanine nucleotide | protein_coding | 73 | 66 | 74 | 67 | 0.898 |
| 2890 | NM_000827,NM_00 | **GRIA1** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2891 | NM_000826,NM_00 | **GRIA2** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2892 | NM_000828,NM_00 | **GRIA3** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2893 | NM_000829,NM_00 | **GRIA4** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2894 | NM_017551,XM_01 | **GRID1** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2895 | NM_001286838,NM | **GRID2** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2896 | NM_002087,XM_005 | **GRN** | granulin precursor | protein_coding | 33 | 35 | 34 | 36 | 1.080 |
| 2897 | NM_000830,NM_00 | **GRIK1** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2898 | NM_001166247,NM | **GRIK2** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2899 | NM_000831 | **GRIK3** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 2900 | NM_001282470,NM | **GRIK4** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 2901 | NM_001301030,NM | **GRIK5** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 0.835 |
| 2902 | NM_000832,NM_00 | **GRIN1** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2903 | NM_000833,NM_00 | **GRIN2A** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2904 | NM_000834,XM_005 | **GRIN2B** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2905 | NM_000835,NM_00 | **GRIN2C** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 2906 | NM_000836,XM_01 | **GRIN2D** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.239 |
| 2907 | NM_000837,NM_00 | **GRINA** | glutamate ionotropic rec | protein_coding | 5 | 5 | 6 | 6 | 0.955 |
| 2908 | NM_000176,NM_00 | **NR3C1** | nuclear receptor subfam | protein_coding | 24 | 20 | 25 | 21 | 0.843 |
| 2909 | NM_004491,XM_02 | **ARHGAP35** | Rho GTPase activating p | protein_coding | 27 | 24 | 28 | 25 | 0.875 |
| 2910 | gene-NR3C1P1 | **NR3C1P1** | nuclear receptor subfam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2911 | NM_001278064,NM | **GRM1** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 2912 | NM_000839,NM_00 | **GRM2** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 2913 | NM_000840,NM_00 | **GRM3** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2914 | NM_000841,NM_00 | **GRM4** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2915 | NM_000842,NM_00 | **GRM5** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 2916 | NM_000843 | **GRM6** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2917 | NM_000844,NM_18 | **GRM7** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2918 | NM_000845,NM_00 | **GRM8** | glutamate metabotropic r | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 2919 | NM_001511,NR_04 | **CXCL1** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2920 | NM_002089 | **CXCL2** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2921 | NM_002090 | **CXCL3** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2922 | NM_001012512,NM | **GRP** | gastrin releasing peptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2923 | NM_005313 | **PDIA3** | protein disulfide isomera | protein_coding | 466 | 470 | 467 | 471 | 1.008 |
| 2925 | NM_005314 | **GRPR** | gastrin releasing peptide | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 2926 | NM_001098477,NM | **GRSF1** | G-rich RNA sequence bir | protein_coding | 44 | 42 | 45 | 43 | 0.953 |
| 2928 | NM_005315 | **GSC2** | goosecoid homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2931 | NM_019884,XR_001 | **GSK3A** | glycogen synthase kinas | protein_coding | 111 | 119 | 112 | 120 | 1.069 |
| 2932 | NM_001146156,NM | **GSK3B** | glycogen synthase kinas | protein_coding | 27 | 21 | 28 | 22 | 0.797 |
| 2934 | NM_000177,NM_00 | **GSN** | gelsolin | protein_coding | 1 | 2 | 2 | 3 | 1.608 |
| 2935 | NM_001130006,NM | **GSPT1** | G1 to S phase transition | protein_coding | 91 | 82 | 92 | 83 | 0.910 |
| 2936 | NM_000637,NM_00 | **GSR** | glutathione-disulfide red | protein_coding | 165 | 163 | 166 | 164 | 0.986 |
| 2937 | NM_000178,NM_00 | **GSS** | glutathione synthetase | protein_coding | 100 | 98 | 101 | 99 | 0.981 |
| 2938 | NM_001319059,NM | **GSTA1** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2939 | NM_000846,XM_01 | **GSTA2** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2940 | NM_000847,NM_00 | **GSTA3** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2941 | NM_001512,XM_005 | **GSTA4** | glutathione S-transferase | protein_coding | 1 | 1 | 2 | 2 | 0.806 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2944 | NM_000561,NM_14 | **GSTM1** | glutathione S-transferas | protein_coding | 0 | 0 | 1 | 1 | 1.166 |
| 2946 | NM_000848,NM_00 | **GSTM2** | glutathione S-transferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2947 | NM_000849,NR_02 | **GSTM3** | glutathione S-transferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2948 | NM_000850,NM_14 | **GSTM4** | glutathione S-transferas | protein_coding | 9 | 10 | 10 | 11 | 1.137 |
| 2949 | NM_000851,XM_00 | **GSTM5** | glutathione S-transferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2950 | NM_000852 | **GSTP1** | glutathione S-transferas | protein_coding | 905 | 928 | 906 | 929 | 1.025 |
| 2951 | gene-GSTP1P1 | **GSTP1P1** | glutathione S-transferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2953 | NR_126445 | **GSTT2** | glutathione S-transferas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2954 | NM_001312660,NM | **GSTZ1** | glutathione S-transferas | protein_coding | 13 | 10 | 14 | 11 | 0.806 |
| 2956 | NM_000179,NM_00 | **MSH6** | mutS homolog 6 | protein_coding | 69 | 65 | 70 | 66 | 0.948 |
| 2957 | NM_001278940,NM | **GTF2A1** | general transcription fact | protein_coding | 25 | 21 | 26 | 22 | 0.852 |
| 2958 | NM_001320929,NM | **GTF2A2** | general transcription fact | protein_coding | 138 | 134 | 139 | 135 | 0.970 |
| 2959 | NM_001514,XM_01 | **GTF2B** | general transcription fact | protein_coding | 79 | 77 | 80 | 78 | 0.971 |
| 2960 | NM_005513 | **GTF2E1** | general transcription fact | protein_coding | 35 | 33 | 36 | 34 | 0.946 |
| 2961 | NM_001348353,NM | **GTF2E2** | general transcription fact | protein_coding | 102 | 91 | 103 | 92 | 0.900 |
| 2962 | NM_002096,XM_02 | **GTF2F1** | general transcription fact | protein_coding | 165 | 174 | 166 | 175 | 1.057 |
| 2963 | NM_004128,XM_01 | **GTF2F2** | general transcription fact | protein_coding | 71 | 67 | 72 | 68 | 0.946 |
| 2964 | gene-GTF2F2P1 | **GTF2F2P1** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 2965 | NM_001142307,NM | **GTF2H1** | general transcription fact | protein_coding | 70 | 65 | 71 | 66 | 0.934 |
| 2966 | NM_001364567,NM | **GTF2H2** | general transcription fact | protein_coding | 105 | 91 | 106 | 92 | 0.868 |
| 2967 | NM_001271866,NM | **GTF2H3** | general transcription fact | protein_coding | 51 | 51 | 52 | 52 | 0.992 |
| 2968 | NM_001517 | **GTF2H4** | general transcription fact | protein_coding | 34 | 34 | 35 | 35 | 0.993 |
| 2969 | NM_001163636,NM | **GTF2I** | general transcription fact | protein_coding | 79 | 71 | 80 | 72 | 0.894 |
| 2970 | NR_002206 | **GTF2IP1** | general transcription fact | transcribed_pseu | 38 | 33 | 39 | 34 | 0.879 |
| 2971 | NM_002097 | **GTF3A** | general transcription fact | protein_coding | 471 | 483 | 472 | 484 | 1.025 |
| 2972 | NM_001242786,NM | **BRF1** | BRF1 RNA polymerase I | protein_coding | 8 | 10 | 9 | 11 | 1.247 |
| 2974 | NR_003923 | **GUCY1B2** | guanylate cyclase 1 solu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 2975 | NM_001286242,NM | **GTF3C1** | general transcription fact | protein_coding | 50 | 51 | 51 | 52 | 1.007 |
| 2976 | NM_001035521,NM | **GTF3C2** | general transcription fact | protein_coding | 58 | 53 | 59 | 54 | 0.912 |
| 2977 | NM_000855,NM_00 | **GUCY1A2** | guanylate cyclase 1 solu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2978 | NM_000409,NM_00 | **GUCA1A** | guanylate cyclase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2979 | NM_002098 | **GUCA1B** | guanylate cyclase activa | protein_coding | 3 | 3 | 4 | 4 | 0.997 |
| 2980 | NM_033553 | **GUCA2A** | guanylate cyclase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2981 | NM_007102 | **GUCA2B** | guanylate cyclase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2982 | NM_000856,NM_00 | **GUCY1A1** | guanylate cyclase 1 solu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2983 | NM_000857,NM_00 | **GUCY1B1** | guanylate cyclase 1 solu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2984 | NM_004963,XM_01 | **GUCY2C** | guanylate cyclase 2C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2986 | NM_001522,XR_24 | **GUCY2F** | guanylate cyclase 2F, re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2987 | NM_000858,NM_00 | **GUK1** | guanylate kinase 1 | protein_coding | 217 | 256 | 218 | 257 | 1.176 |
| 2990 | NM_000181,NM_00 | **GUSB** | glucuronidase beta | protein_coding | 54 | 49 | 55 | 50 | 0.917 |
| 2992 | NM_001184720,NM | **GYG1** | glycogenin 1 | protein_coding | 264 | 287 | 265 | 288 | 1.088 |
| 2993 | NM_001308187,NM | **GYPA** | glycophorin A (MNS bloc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2994 | NM_001304382,NM | **GYPB** | glycophorin B (MNS bloc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2995 | NM_001256584,NM | **GYPC** | glycophorin C (Gerbich b | protein_coding | 98 | 95 | 99 | 96 | 0.965 |
| 2996 | NM_002102,NM_19 | **GYPE** | glycophorin E (MNS bloc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2997 | NM_001161587,NM | **GYS1** | glycogen synthase 1 | protein_coding | 46 | 48 | 47 | 49 | 1.042 |
| 2998 | NM_021957,XM_00 | **GYS2** | glycogen synthase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 2999 | NM_001270780,NM | **GZMH** | granzyme H | protein_coding | 141 | 158 | 142 | 159 | 1.121 |
| 3000 | NM_000180,XM_01 | **GUCY2D** | guanylate cyclase 2D, re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3001 | NM_006144 | **GZMA** | granzyme A | protein_coding | 1,284 | 1,261 | 1,285 | 1,262 | 0.982 |
| 3002 | NM_001346011,NM | **GZMB** | granzyme B | protein_coding | 1,850 | 2,149 | 1,851 | 2,150 | 1.161 |
| 3003 | NM_002104 | **GZMK** | granzyme K | protein_coding | 247 | 240 | 248 | 241 | 0.969 |
| 3004 | NM_001258351,NM | **GZMM** | granzyme M | protein_coding | 163 | 191 | 164 | 192 | 1.169 |
| 3005 | NM_005318 | **H1-0** | H1.0 linker histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3006 | NM_005319 | **H1-2** | H1.2 linker histone, clust | protein_coding | 348 | 329 | 349 | 330 | 0.945 |
| 3007 | NM_005320 | **H1-3** | H1.3 linker histone, clust | protein_coding | 1 | 1 | 2 | 2 | 1.125 |
| 3008 | NM_005321 | **H1-4** | H1.4 linker histone, clust | protein_coding | 1 | 1 | 2 | 2 | 0.822 |
| 3009 | NM_005322 | **H1-5** | H1.5 linker histone, clust | protein_coding | 0 | 0 | 1 | 1 | 0.669 |
| 3010 | NM_005323 | **H1-6** | H1.6 linker histone, clust | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3012 | NM_021052 | **H2AC8** | H2A clustered histone 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3013 | NM_021065 | **H2AC7** | H2A clustered histone 7 | protein_coding | 0 | 1 | 1 | 2 | 1.854 |
| 3014 | NM_002105 | **H2AX** | H2A.X variant histone | protein_coding | 232 | 281 | 233 | 282 | 1.208 |
| 3015 | NM_002106 | **H2AZ1** | H2A.Z variant histone 1 | protein_coding | 1,148 | 1,181 | 1,149 | 1,182 | 1.029 |
| 3017 | NM_021063,NM_13 | **H2BC5** | H2B clustered histone 5 | protein_coding | 43 | 48 | 44 | 49 | 1.111 |
| 3018 | NM_021062 | **H2BC3** | H2B clustered histone 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3020 | NM_001379043,NM | **H3-3A** | H3.3 histone A | protein_coding | 373 | 363 | 374 | 364 | 0.971 |
| 3021 | NM_005324 | **H3-3B** | H3.3 histone B | protein_coding | 499 | 514 | 500 | 515 | 1.030 |
| 3024 | NM_005325 | **H1-1** | H1.1 linker histone, clust | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3026 | NM_001177660,NM | **HABP2** | hyaluronan binding prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3028 | NM_001037811,NM | **HSD17B10** | hydroxysteroid 17-beta d | protein_coding | 340 | 381 | 341 | 382 | 1.123 |
| 3029 | NM_001040427,NM | **HAGH** | hydroxyacylglutathione h | protein_coding | 21 | 23 | 22 | 24 | 1.097 |
| 3030 | NM_000182 | **HADHA** | hydroxyacyl-CoA dehydr | protein_coding | 111 | 108 | 112 | 109 | 0.969 |
| 3031 | gene-HADHAP1 | **HADHAP1** | HADHA pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3032 | NM_000183,NM_00 | **HADHB** | hydroxyacyl-CoA dehydr | protein_coding | 56 | 58 | 57 | 59 | 1.040 |
| 3033 | NM_001184705,NM | **HADH** | hydroxyacyl-CoA dehydr | protein_coding | 60 | 61 | 61 | 62 | 1.016 |
| 3034 | NM_001258333,NM | **HAL** | histidine ammonia-lyase | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 3035 | NM_001258040,NM | **HARS1** | histidyl-tRNA synthetase | protein_coding | 159 | 164 | 160 | 165 | 1.029 |
| 3036 | NM_001297436,NM | **HAS1** | hyaluronan synthase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3037 | NM_005328 | **HAS2** | hyaluronan synthase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3038 | NM_001199280,NM | **HAS3** | hyaluronan synthase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 3039 | NM_000558 | **HBA1** | hemoglobin subunit alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3040 | NM_000517 | **HBA2** | hemoglobin subunit alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3042 | NM_001003938 | **HBM** | hemoglobin subunit mu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3043 | NM_000518 | **HBB** | hemoglobin subunit beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3044 | NR_001589 | **HBBP1** | hemoglobin subunit beta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 3045 | NM_000519 | **HBD** | hemoglobin subunit delt | protein_coding | 0 | 1 | 1 | 2 | 1.391 |
| 3046 | NM_005330 | **HBE1** | hemoglobin subunit epsi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3047 | NM_000559 | **HBG1** | hemoglobin subunit gam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3048 | NM_000184 | **HBG2** | hemoglobin subunit gam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3049 | NM_005331 | **HBQ1** | hemoglobin subunit thet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3050 | NM_005332 | **HBZ** | hemoglobin subunit zeta | protein_coding | 0 | 0 | 1 | 1 | 1.094 |
| 3051 | gene-HBZP1 | **HBZP1** | hemoglobin subunit zeta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3052 | NM_001122608,NM | **HCCS** | holocytochrome c synthe | protein_coding | 40 | 38 | 41 | 39 | 0.954 |
| 3053 | NM_000185 | **SERPIND1** | serpin family D member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3054 | NM_005334,XM_00 | **HCFC1** | host cell factor C1 | protein_coding | 86 | 83 | 87 | 84 | 0.962 |
| 3055 | NM_001172129,NM | **HCK** | HCK proto-oncogene, Sr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3059 | NM_001292041,NM | **HCLS1** | hematopoietic cell-specif | protein_coding | 449 | 456 | 450 | 457 | 1.015 |
| 3060 | NM_001524 | **HCRT** | hypocretin neuropeptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3061 | NM_001525,XM_01 | **HCRTR1** | hypocretin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3062 | NM_001526,XM_01 | **HCRTR2** | hypocretin receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3064 | NM_002111 | **HTT** | huntingtin | protein_coding | 22 | 19 | 23 | 20 | 0.861 |
| 3065 | NM_004964,XM_01 | **HDAC1** | histone deacetylase 1 | protein_coding | 331 | 322 | 332 | 323 | 0.973 |
| 3066 | NM_001527,NR_03 | **HDAC2** | histone deacetylase 2 | protein_coding | 55 | 54 | 56 | 55 | 0.983 |
| 3067 | NM_001306146,NM | **HDC** | histidine decarboxylase | protein_coding | 0 | 0 | 1 | 1 | 0.907 |
| 3068 | NM_001126050,NM | **HDGF** | heparin binding growth f | protein_coding | 446 | 448 | 447 | 449 | 1.005 |
| 3069 | NM_001243900,NM | **HDLBP** | high density lipoprotein b | protein_coding | 163 | 161 | 164 | 162 | 0.990 |
| 3070 | NM_001289067,NM | **HELLS** | helicase, lymphoid speci | protein_coding | 32 | 27 | 33 | 28 | 0.855 |
| 3071 | NM_001184976,NM | **NCKAP1L** | NCK associated protein 1 | protein_coding | 20 | 18 | 21 | 19 | 0.913 |
| 3073 | NM_000520,NM_00 | **HEXA** | hexosaminidase subunit | protein_coding | 31 | 33 | 32 | 34 | 1.044 |
| 3074 | NM_000521,NM_00 | **HEXB** | hexosaminidase subunit | protein_coding | 48 | 43 | 49 | 44 | 0.884 |
| 3075 | NM_000186,NM_00 | **CFH** | complement factor H | protein_coding | 26 | 26 | 27 | 27 | 0.996 |
| 3077 | NM_000410,NM_00 | **HFE** | homeostatic iron regulat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3078 | NM_001379306,NM | **CFHR1** | complement factor H rela | protein_coding | 12 | 8 | 13 | 9 | 0.737 |
| 3080 | NM_001312672,NM | **CFHR2** | complement factor H rela | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3081 | NM_000187,XM_00 | **HGD** | homogentisate 1,2-dioxy | protein_coding | 0 | 0 | 1 | 1 | 1.296 |
| 3082 | NM_000601,NM_00 | **HGF** | hepatocyte growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3083 | NM_001297439,NM | **HGFAC** | HGF activator | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3084 | NM_001159995,NM | **NRG1** | neuregulin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3087 | NM_002729 | **HHEX** | hematopoietically expres | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3090 | NM_001098202,NM | **HIC1** | HIC ZBTB transcriptional | protein_coding | 6 | 6 | 7 | 7 | 0.976 |
| 3091 | NM_001243084,NM | **HIF1A** | hypoxia inducible factor 1 | protein_coding | 74 | 66 | 75 | 67 | 0.895 |
| 3092 | NM_001243198,NM | **HIP1** | huntingtin interacting pro | protein_coding | 3 | 2 | 4 | 3 | 0.921 |
| 3093 | NM_001111112,NM | **UBE2K** | ubiquitin conjugating en | protein_coding | 79 | 71 | 80 | 72 | 0.902 |
| 3094 | NM_005340,NR_02 | **HINT1** | histidine triad nucleotide | protein_coding | 456 | 475 | 457 | 476 | 1.043 |
| 3096 | NM_002114,XM_01 | **HIVEP1** | HIVEP zinc finger 1 | protein_coding | 2 | 1 | 3 | 2 | 0.850 |
| 3097 | NM_006734,XM_01 | **HIVEP2** | HIVEP zinc finger 2 | protein_coding | 11 | 8 | 12 | 9 | 0.759 |

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|---|---|---|---|---|---|---|---|---|---|
| 3098 | NM_000188,NM_00 | **HK1** | hexokinase 1 | protein_coding | 138 | 128 | 139 | 129 | 0.927 |
| 3099 | NM_000189,NM_00 | **HK2** | hexokinase 2 | protein_coding | 64 | 64 | 65 | 65 | 0.997 |
| 3101 | NM_002115,XM_01 | **HK3** | hexokinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3104 | NM_001278647,NM | **ZBTB48** | zinc finger and BTB dom | protein_coding | 16 | 17 | 17 | 18 | 1.069 |
| 3105 | NM_002116 | **HLA-A** | major histocompatibility c | protein_coding | 2,294 | 2,390 | 2,295 | 2,391 | 1.042 |
| 3106 | NM_005514 | **HLA-B** | major histocompatibility c | protein_coding | 2,531 | 2,699 | 2,532 | 2,700 | 1.066 |
| 3107 | NM_002117 | **HLA-C** | major histocompatibility c | protein_coding | 1,651 | 1,732 | 1,652 | 1,733 | 1.049 |
| 3108 | NM_006120 | **HLA-DMA** | major histocompatibility c | protein_coding | 4 | 6 | 5 | 7 | 1.309 |
| 3109 | NM_002118 | **HLA-DMB** | major histocompatibility c | protein_coding | 10 | 11 | 11 | 12 | 1.050 |
| 3110 | NM_001165255,NM | **MNX1** | motor neuron and pancr | protein_coding | 1 | 0 | 2 | 1 | 0.843 |
| 3111 | NM_002119 | **HLA-DOA** | major histocompatibility c | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 3112 | NM_002120 | **HLA-DOB** | major histocompatibility c | protein_coding | 6 | 6 | 7 | 7 | 1.114 |
| 3113 | NM_001242524,NM | **HLA-DPA1** | major histocompatibility c | protein_coding | 3 | 2 | 4 | 3 | 0.802 |
| 3115 | NM_002121 | **HLA-DPB1** | major histocompatibility c | protein_coding | 3 | 3 | 4 | 4 | 1.064 |
| 3116 | NR_001435 | **HLA-DPB2** | major histocompatibility c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 3117 | NM_002122,XM_00 | **HLA-DQA1** | major histocompatibility c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3118 | NM_020056 | **HLA-DQA2** | major histocompatibility c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3119 | NM_001243961,NM | **HLA-DQB1** | major histocompatibility c | protein_coding | 14 | 10 | 15 | 11 | 0.783 |
| 3120 | NM_001198858,NM | **HLA-DQB2** | major histocompatibility c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3122 | NM_019111 | **HLA-DRA** | major histocompatibility c | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 3123 | NM_002124 | **HLA-DRB1** | major histocompatibility c | protein_coding | 1 | 1 | 2 | 2 | 1.208 |
| 3127 | NM_002125,XM_01 | **HLA-DRB5** | major histocompatibility c | protein_coding | 20 | 22 | 21 | 23 | 1.096 |
| 3128 | NR_001298 | **HLA-DRB6** | major histocompatibility c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 3131 | NM_001330375,NM | **HLF** | HLF transcription factor, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3133 | NM_005516,XM_01 | **HLA-E** | major histocompatibility c | protein_coding | 422 | 389 | 423 | 390 | 0.922 |
| 3134 | NM_001098478,NM | **HLA-F** | major histocompatibility c | protein_coding | 189 | 165 | 190 | 166 | 0.876 |
| 3135 | NM_001363567,NM | **HLA-G** | major histocompatibility c | protein_coding | 0 | 1 | 1 | 2 | 2.345 |
| 3136 | NR_001434 | **HLA-H** | major histocompatibility c | transcribed_pseu | 139 | 158 | 140 | 159 | 1.129 |
| 3137 | NR_024240 | **HLA-J** | major histocompatibility c | transcribed_pseu | 2 | 2 | 3 | 3 | 0.944 |
| 3138 | gene-HLA-K | **HLA-K** | major histocompatibility c | pseudogene | 8 | 8 | 9 | 9 | 1.037 |
| 3139 | NR_027822 | **HLA-L** | major histocompatibility c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.108 |
| 3140 | NM_001194999,NM | **MR1** | major histocompatibility c | protein_coding | 18 | 17 | 19 | 18 | 0.914 |
| 3141 | NM_000411,NM_00 | **HLCS** | holocarboxylase synthet | protein_coding | 5 | 5 | 6 | 6 | 1.057 |
| 3142 | NM_021958 | **HLX** | H2.0 like homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3145 | NM_000190,NM_00 | **HMBS** | hydroxymethylbilane syn | protein_coding | 95 | 96 | 96 | 97 | 1.010 |
| 3146 | NM_001313892,NM | **HMGB1** | high mobility group box 1 | protein_coding | 433 | 410 | 434 | 411 | 0.947 |
| 3148 | NM_001130688,NM | **HMGB2** | high mobility group box 2 | protein_coding | 1,056 | 1,118 | 1,057 | 1,119 | 1.059 |
| 3149 | NM_001301228,NM | **HMGB3** | high mobility group box 3 | protein_coding | 12 | 12 | 13 | 13 | 0.945 |
| 3150 | NM_004965,XM_01 | **HMGN1** | high mobility group nucl | protein_coding | 565 | 542 | 566 | 543 | 0.960 |
| 3151 | NM_005517 | **HMGN2** | high mobility group nucl | protein_coding | 1,124 | 1,177 | 1,125 | 1,178 | 1.047 |
| 3152 | gene-HMGN2P11 | **HMGN2P11** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3153 | gene-HMGN2P12 | **HMGN2P12** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.116 |
| 3155 | NM_000191,NM_00 | **HMGCL** | 3-hydroxy-3-methylglutar | protein_coding | 17 | 16 | 18 | 17 | 0.935 |
| 3156 | NM_000859,NM_00 | **HMGCR** | 3-hydroxy-3-methylglutar | protein_coding | 116 | 105 | 117 | 106 | 0.901 |
| 3157 | NM_001098272,NM | **HMGCS1** | 3-hydroxy-3-methylglutar | protein_coding | 110 | 103 | 111 | 104 | 0.935 |
| 3158 | NM_001166107,NM | **HMGCS2** | 3-hydroxy-3-methylglutar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3159 | NM_001319077,NM | **HMGA1** | high mobility group AT-h | protein_coding | 511 | 514 | 512 | 515 | 1.006 |
| 3161 | NM_001142556,NM | **HMMR** | hyaluronan mediated mc | protein_coding | 114 | 101 | 115 | 102 | 0.887 |
| 3162 | NM_002133 | **HMOX1** | heme oxygenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3163 | NM_001127204,NM | **HMOX2** | heme oxygenase 2 | protein_coding | 119 | 117 | 120 | 118 | 0.980 |
| 3164 | NM_001202233,NM | **NR4A1** | nuclear receptor subfam | protein_coding | 1 | 0 | 2 | 1 | 0.702 |
| 3166 | NM_001306142,NM | **HMX1** | H6 family homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3167 | NM_005519,XM_00 | **HMX2** | H6 family homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3169 | NM_004496,XM_01 | **FOXA1** | forkhead box A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3170 | NM_021784,NM_15 | **FOXA2** | forkhead box A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3171 | NM_004497 | **FOXA3** | forkhead box A3 | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 3172 | NM_000457,NM_00 | **HNF4A** | hepatocyte nuclear facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3174 | NM_001330561,NM | **HNF4G** | hepatocyte nuclear facto | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 3175 | NM_004498,NR_07 | **ONECUT1** | one cut homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3176 | NM_001024074,NM | **HNMT** | histamine N-methyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3177 | NM_001300868,NM | **SLC29A2** | solute carrier family 29 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3178 | NM_002136,NM_03 | **HNRNPA1** | heterogeneous nuclear r | protein_coding | 1,192 | 1,155 | 1,193 | 1,156 | 0.969 |
| 3181 | NM_002137,NM_03 | **HNRNPA2B1** | heterogeneous nuclear r | protein_coding | 1,795 | 1,596 | 1,796 | 1,597 | 0.889 |
| 3182 | NM_004499,NM_03 | **HNRNPAB** | heterogeneous nuclear r | protein_coding | 713 | 725 | 714 | 726 | 1.017 |
| 3183 | NM_001077442,NM | **HNRNPC** | heterogeneous nuclear r | protein_coding | 775 | 750 | 776 | 751 | 0.968 |
| 3184 | NM_001003810,NM | **HNRNPD** | heterogeneous nuclear r | protein_coding | 499 | 522 | 500 | 523 | 1.045 |
| 3185 | NM_001098204,NM | **HNRNPF** | heterogeneous nuclear r | protein_coding | 453 | 464 | 454 | 465 | 1.023 |
| 3186 | gene-RBMXP1 | **RBMXP1** | RBMX pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3187 | NM_001257293,NM | **HNRNPH1** | heterogeneous nuclear r | protein_coding | 661 | 670 | 662 | 671 | 1.014 |
| 3188 | NM_001032393,NM | **HNRNPH2** | heterogeneous nuclear r | protein_coding | 87 | 85 | 88 | 86 | 0.970 |
| 3189 | NM_001322434,NM | **HNRNPH3** | heterogeneous nuclear r | protein_coding | 317 | 333 | 318 | 334 | 1.051 |
| 3190 | NM_001318186,NM | **HNRNPK** | heterogeneous nuclear r | protein_coding | 816 | 767 | 817 | 768 | 0.940 |
| 3191 | NM_001005335,NM | **HNRNPL** | heterogeneous nuclear r | protein_coding | 421 | 424 | 422 | 425 | 1.007 |
| 3192 | NM_004501,NM_03 | **HNRNPU** | heterogeneous nuclear r | protein_coding | 419 | 397 | 420 | 398 | 0.946 |
| 3195 | NM_001195517,NM | **TLX1** | T cell leukemia homeobc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3196 | NM_016170 | **TLX2** | T cell leukemia homeobc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3198 | NM_005522,NM_15 | **HOXA1** | homeobox A1 | protein_coding | 7 | 7 | 8 | 8 | 0.925 |
| 3199 | NM_006735 | **HOXA2** | homeobox A2 | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 3200 | NM_030661,NM_15 | **HOXA3** | homeobox A3 | protein_coding | 1 | 1 | 2 | 2 | 0.986 |
| 3201 | NM_002141 | **HOXA4** | homeobox A4 | protein_coding | 2 | 3 | 3 | 4 | 1.161 |
| 3202 | NM_019102 | **HOXA5** | homeobox A5 | protein_coding | 4 | 3 | 5 | 4 | 0.739 |
| 3203 | NM_024014 | **HOXA6** | homeobox A6 | protein_coding | 2 | 1 | 3 | 2 | 0.789 |
| 3204 | NM_006896 | **HOXA7** | homeobox A7 | protein_coding | 14 | 14 | 15 | 15 | 1.028 |
| 3205 | NM_152739 | **HOXA9** | homeobox A9 | protein_coding | 31 | 32 | 32 | 33 | 1.021 |
| 3206 | NM_018951,NR_03 | **HOXA10** | homeobox A10 | protein_coding | 27 | 23 | 28 | 24 | 0.873 |
| 3207 | NM_005523 | **HOXA11** | homeobox A11 | protein_coding | 1 | 1 | 2 | 2 | 0.893 |
| 3208 | NM_002143,XM_00 | **HPCA** | hippocalcin | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 3209 | NM_000522 | **HOXA13** | homeobox A13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3211 | NM_002144 | **HOXB1** | homeobox B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3212 | NM_002145,XM_00 | **HOXB2** | homeobox B2 | protein_coding | 105 | 114 | 106 | 115 | 1.085 |
| 3213 | NM_001330322,NM | **HOXB3** | homeobox B3 | protein_coding | 11 | 10 | 12 | 11 | 0.937 |
| 3214 | NM_024015 | **HOXB4** | homeobox B4 | protein_coding | 57 | 59 | 58 | 60 | 1.042 |
| 3215 | NM_002147 | **HOXB5** | homeobox B5 | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 3216 | NM_001369397,NM | **HOXB6** | homeobox B6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3217 | NM_004502 | **HOXB7** | homeobox B7 | protein_coding | 42 | 43 | 43 | 44 | 1.038 |
| 3218 | NM_024016,XM_00 | **HOXB8** | homeobox B8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3219 | NM_024017 | **HOXB9** | homeobox B9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3221 | NM_014620,NM_15 | **HOXC4** | homeobox C4 | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 3222 | NM_018953,NR_00 | **HOXC5** | homeobox C5 | protein_coding | 0 | 0 | 1 | 1 | 1.277 |
| 3223 | NM_004503,NM_15 | **HOXC6** | homeobox C6 | protein_coding | 0 | 0 | 1 | 1 | 0.847 |
| 3224 | NM_022658 | **HOXC8** | homeobox C8 | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 3225 | NM_006897 | **HOXC9** | homeobox C9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3226 | NM_017409 | **HOXC10** | homeobox C10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3227 | NM_014212 | **HOXC11** | homeobox C11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3228 | NM_173860 | **HOXC12** | homeobox C12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3229 | NM_017410 | **HOXC13** | homeobox C13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3231 | NM_024501 | **HOXD1** | homeobox D1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3232 | NM_006898,XM_00 | **HOXD3** | homeobox D3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3233 | NM_014621,XM_00 | **HOXD4** | homeobox D4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3234 | NM_001199746,NM | **HOXD8** | homeobox D8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3235 | NM_014213 | **HOXD9** | homeobox D9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3236 | NM_002148 | **HOXD10** | homeobox D10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3237 | NM_021192 | **HOXD11** | homeobox D11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3238 | NM_021193 | **HOXD12** | homeobox D12 | protein_coding | 0 | 0 | 1 | 1 | 1.088 |
| 3239 | NM_000523,XM_01 | **HOXD13** | homeobox D13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3240 | NM_001126102,NM | **HP** | haptoglobin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3241 | NM_001258357,NM | **HPCAL1** | hippocalcin like 1 | protein_coding | 7 | 7 | 8 | 8 | 0.937 |
| 3242 | NM_001171993,NM | **HPD** | 4-hydroxyphenylpyruvate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3248 | NM_000860,NM_00 | **HPGD** | 15-hydroxyprostaglandin | protein_coding | 21 | 22 | 22 | 23 | 1.033 |
| 3249 | NM_001375441,NM | **HPN** | hepsin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3250 | NM_020995,XM_02 | **HPR** | haptoglobin-related prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3251 | NM_000194 | **HPRT1** | hypoxanthine phosphorib | protein_coding | 156 | 147 | 157 | 148 | 0.941 |
| 3255 | gene-HPRT1P3 | **HPRT1P3** | hypoxanthine phosphorib | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3257 | NM_000195,NM_00 | **HPS1** | HPS1 biogenesis of lyso | protein_coding | 17 | 17 | 18 | 18 | 0.995 |
| 3263 | NM_000613 | **HPX** | hemopexin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3265 | NM_001130442,NM | **HRAS** | HRas proto-oncogene, G | protein_coding | 48 | 50 | 49 | 51 | 1.045 |

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|---|---|---|---|---|---|---|---|---|---|
| 3266 | NM_181532 | **ERAS** | ES cell expressed Ras | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3267 | NM_001135187,NM | **AGFG1** | ArfGAP with FG repeats | protein_coding | 34 | 33 | 35 | 34 | 0.969 |
| 3268 | NM_006076,XM_00 | **AGFG2** | ArfGAP with FG repeats | protein_coding | 18 | 21 | 19 | 22 | 1.114 |
| 3269 | NM_000861,NM_00 | **HRH1** | histamine receptor H1 | protein_coding | 0 | 0 | 1 | 1 | 0.931 |
| 3270 | NM_002152,XM_01 | **HRC** | histidine rich calcium bin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3273 | NM_000412,XM_00 | **HRG** | histidine rich glycoprotei | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 3274 | NM_001131055,NM | **HRH2** | histamine receptor H2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3275 | NM_001242864,NM | **PRMT2** | protein arginine methyltr | protein_coding | 45 | 43 | 46 | 44 | 0.955 |
| 3276 | NM_001207042,NM | **PRMT1** | protein arginine methyltr | protein_coding | 586 | 608 | 587 | 609 | 1.037 |
| 3280 | NM_005524 | **HES1** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3281 | NM_001537 | **HSBP1** | heat shock factor binding | protein_coding | 18 | 16 | 19 | 17 | 0.922 |
| 3283 | NM_000862,NM_00 | **HSD3B1** | hydroxy-delta-5-steroid d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3284 | NM_000198,NM_00 | **HSD3B2** | hydroxy-delta-5-steroid d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3290 | NM_001206741,NM | **HSD11B1** | hydroxysteroid 11-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3291 | NM_000196 | **HSD11B2** | hydroxysteroid 11-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3292 | NM_000413,NM_00 | **HSD17B1** | hydroxysteroid 17-beta d | protein_coding | 0 | 1 | 1 | 2 | 1.486 |
| 3293 | NM_000197,XM_01 | **HSD17B3** | hydroxysteroid 17-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3294 | NM_002153,XR_00 | **HSD17B2** | hydroxysteroid 17-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3295 | NM_000414,NM_00 | **HSD17B4** | hydroxysteroid 17-beta d | protein_coding | 48 | 45 | 49 | 46 | 0.950 |
| 3297 | NM_005526,XM_00 | **HSF1** | heat shock transcription | protein_coding | 38 | 37 | 39 | 38 | 0.965 |
| 3298 | NM_001135564,NM | **HSF2** | heat shock transcription | protein_coding | 22 | 20 | 23 | 21 | 0.914 |
| 3299 | NM_001040667,NM | **HSF4** | heat shock transcription | protein_coding | 1 | 1 | 2 | 2 | 1.268 |
| 3300 | NM_001039550,NM | **DNAJB2** | DnaJ heat shock protein | protein_coding | 35 | 33 | 36 | 34 | 0.952 |
| 3301 | NM_001314039,NM | **DNAJA1** | DnaJ heat shock protein | protein_coding | 509 | 495 | 510 | 496 | 0.972 |
| 3303 | NM_005345 | **HSPA1A** | heat shock protein family | protein_coding | 5 | 5 | 6 | 6 | 1.052 |
| 3304 | NM_005346 | **HSPA1B** | heat shock protein family | protein_coding | 8 | 9 | 9 | 10 | 1.109 |
| 3305 | NM_005527 | **HSPA1L** | heat shock protein family | protein_coding | 3 | 3 | 4 | 4 | 0.837 |
| 3306 | NM_021979 | **HSPA2** | heat shock protein family | protein_coding | 1 | 1 | 2 | 2 | 1.100 |
| 3308 | NM_002154 | **HSPA4** | heat shock protein family | protein_coding | 163 | 155 | 164 | 156 | 0.951 |
| 3309 | NM_005347 | **HSPA5** | heat shock protein family | protein_coding | 495 | 552 | 496 | 553 | 1.117 |
| 3310 | NM_002155 | **HSPA6** | heat shock protein family | protein_coding | 27 | 29 | 28 | 30 | 1.083 |
| 3311 | NR_024151 | **HSPA7** | heat shock protein family | transcribed_pseu | 3 | 4 | 4 | 5 | 1.209 |
| 3312 | NM_006597,NM_15 | **HSPA8** | heat shock protein family | protein_coding | 4,691 | 5,107 | 4,692 | 5,108 | 1.089 |
| 3313 | NM_004134 | **HSPA9** | heat shock protein family | protein_coding | 494 | 460 | 495 | 461 | 0.932 |
| 3314 | gene-HSPA8P1 | **HSPA8P1** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 3315 | NM_001540 | **HSPB1** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3316 | NM_001541 | **HSPB2** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.119 |
| 3320 | NM_001017963,NM | **HSP90AA1** | heat shock protein 90 alp | protein_coding | 1,887 | 1,750 | 1,888 | 1,751 | 0.927 |
| 3321 | NM_001007237,NM | **IGSF3** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 3322 | gene-HSP90AA3P | **HSP90AA3P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.036 |
| 3323 | gene-HSP90AA4P | **HSP90AA4P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 3324 | gene-HSP90AA2P | **HSP90AA2P** | heat shock protein 90 alp | pseudogene | 1 | 1 | 2 | 2 | 0.986 |
| 3326 | NM_001271969,NM | **HSP90AB1** | heat shock protein 90 alp | protein_coding | 3,108 | 3,033 | 3,109 | 3,034 | 0.976 |
| 3327 | gene-HSP90AB3P | **HSP90AB3P** | heat shock protein 90 alp | pseudogene | 1 | 1 | 2 | 2 | 1.021 |
| 3329 | NM_002156,NM_19 | **HSPD1** | heat shock protein family | protein_coding | 2,281 | 2,148 | 2,282 | 2,149 | 0.942 |
| 3332 | gene-HSPD1P3 | **HSPD1P3** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 3336 | NM_002157 | **HSPE1** | heat shock protein family | protein_coding | 2,309 | 2,394 | 2,310 | 2,395 | 1.037 |
| 3337 | NM_001300914,NM | **DNAJB1** | DnaJ heat shock protein | protein_coding | 211 | 216 | 212 | 217 | 1.020 |
| 3338 | NM_001307980,NM | **DNAJC4** | DnaJ heat shock protein | protein_coding | 7 | 9 | 8 | 10 | 1.259 |
| 3339 | NM_001291860,NM | **HSPG2** | heparan sulfate proteogl | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 3340 | NM_001301063,NM | **NDST1** | N-deacetylase and N-sul | protein_coding | 72 | 72 | 73 | 73 | 1.005 |
| 3344 | NM_001375442,NM | **FOXN2** | forkhead box N2 | protein_coding | 36 | 28 | 37 | 29 | 0.797 |
| 3346 | NM_001368990,NM | **HTN1** | histatin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3347 | NM_000200 | **HTN3** | histatin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3350 | NM_000524 | **HTR1A** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3351 | NM_000863 | **HTR1B** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 3352 | NM_000864 | **HTR1D** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3354 | NM_000865,XM_01 | **HTR1E** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3355 | NM_000866,NM_00 | **HTR1F** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3356 | NM_000621,NM_00 | **HTR2A** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3357 | NM_000867,NM_00 | **HTR2B** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3358 | NM_000868,NM_00 | **HTR2C** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3359 | NM_000869,NM_00 | **HTR3A** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3360 | NM_000870,NM_00 | **HTR4** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3361 | NM_024012 | **HTR5A** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3362 | NM_000871 | **HTR6** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3363 | NM_000872,NM_01 | **HTR7** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3364 | NM_001363683,NM | **HUS1** | HUS1 checkpoint clamp | protein_coding | 10 | 9 | 11 | 10 | 0.957 |
| 3371 | NM_002160,XM_00 | **TNC** | tenascin C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3373 | NM_033159,NM_15 | **HYAL1** | hyaluronidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3375 | NM_000415,NM_00 | **IAPP** | islet amyloid polypeptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3376 | NM_001374299,NM | **IARS1** | isoleucyl-tRNA synthetas | protein_coding | 150 | 132 | 151 | 133 | 0.883 |
| 3381 | NM_004967 | **IBSP** | integrin binding sialoprot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3382 | NM_001136020,NM | **ICA1** | islet cell autoantigen 1 | protein_coding | 4 | 4 | 5 | 5 | 0.898 |
| 3383 | NM_000201 | **ICAM1** | intercellular adhesion mo | protein_coding | 96 | 103 | 97 | 104 | 1.070 |
| 3384 | NM_000873,NM_00 | **ICAM2** | intercellular adhesion mo | protein_coding | 11 | 10 | 12 | 11 | 0.955 |
| 3385 | NM_001320605,NM | **ICAM3** | intercellular adhesion mo | protein_coding | 0 | 0 | 1 | 1 | 0.900 |
| 3386 | NM_001039132,NM | **ICAM4** | intercellular adhesion mo | protein_coding | 0 | 0 | 1 | 1 | 1.253 |
| 3394 | NM_001363907,NM | **IRF8** | interferon regulatory fact | protein_coding | 71 | 62 | 72 | 63 | 0.884 |
| 3396 | NM_001303265,NM | **MRPL58** | mitochondrial ribosomal | protein_coding | 113 | 111 | 114 | 112 | 0.977 |
| 3397 | NM_002165,NM_18 | **ID1** | inhibitor of DNA binding | protein_coding | 1 | 0 | 2 | 1 | 0.687 |
| 3398 | NM_002166 | **ID2** | inhibitor of DNA binding | protein_coding | 477 | 483 | 478 | 484 | 1.013 |
| 3399 | NM_002167 | **ID3** | inhibitor of DNA binding | protein_coding | 53 | 54 | 54 | 55 | 1.011 |
| 3400 | NM_001546 | **ID4** | inhibitor of DNA binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3416 | NM_001165946,NM | **IDE** | insulin degrading enzym | protein_coding | 19 | 17 | 20 | 18 | 0.884 |
| 3417 | NM_001282386,NM | **IDH1** | isocitrate dehydrogenase | protein_coding | 44 | 44 | 45 | 45 | 1.004 |
| 3418 | NM_001289910,NM | **IDH2** | isocitrate dehydrogenase | protein_coding | 102 | 105 | 103 | 106 | 1.033 |
| 3419 | NM_005530,XM_00 | **IDH3A** | isocitrate dehydrogenase | protein_coding | 207 | 207 | 208 | 208 | 1.002 |
| 3420 | NM_001258384,NM | **IDH3B** | isocitrate dehydrogenase | protein_coding | 285 | 305 | 286 | 306 | 1.069 |
| 3421 | NM_004135,NM_17 | **IDH3G** | isocitrate dehydrogenase | protein_coding | 63 | 73 | 64 | 74 | 1.159 |
| 3422 | NM_001317955,NM | **IDI1** | isopentenyl-diphosphate | protein_coding | 99 | 89 | 100 | 90 | 0.899 |
| 3423 | NM_000202,NM_00 | **IDS** | iduronate 2-sulfatase | protein_coding | 91 | 83 | 92 | 84 | 0.917 |
| 3425 | NM_000203,NM_00 | **IDUA** | alpha-L-iduronidase | protein_coding | 0 | 0 | 1 | 1 | 0.831 |
| 3426 | NM_000204,NM_00 | **CFI** | complement factor I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3428 | NM_001206567,NM | **IFI16** | interferon gamma inducil | protein_coding | 564 | 502 | 565 | 503 | 0.889 |
| 3429 | NM_001288954,NM | **IFI27** | interferon alpha inducibl | protein_coding | 842 | 850 | 843 | 851 | 1.010 |
| 3430 | NM_001330230,NM | **IFI35** | interferon induced protei | protein_coding | 67 | 70 | 68 | 71 | 1.034 |
| 3431 | NM_001185015,NM | **SP110** | SP110 nuclear body prot | protein_coding | 66 | 58 | 67 | 59 | 0.871 |
| 3433 | NM_001547 | **IFIT2** | interferon induced protei | protein_coding | 47 | 43 | 48 | 44 | 0.920 |
| 3434 | NM_001270927,NM | **IFIT1** | interferon induced protei | protein_coding | 31 | 27 | 32 | 28 | 0.881 |
| 3437 | NM_001031683,NM | **IFIT3** | interferon induced protei | protein_coding | 124 | 86 | 125 | 87 | 0.693 |
| 3439 | NM_024013 | **IFNA1** | interferon alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3440 | NM_000605 | **IFNA2** | interferon alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3441 | NM_021068 | **IFNA4** | interferon alpha 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3442 | NM_002169 | **IFNA5** | interferon alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3443 | NM_021002 | **IFNA6** | interferon alpha 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3444 | NM_021057 | **IFNA7** | interferon alpha 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3445 | NM_002170 | **IFNA8** | interferon alpha 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3446 | NM_002171 | **IFNA10** | interferon alpha 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3447 | NM_006900 | **IFNA13** | interferon alpha 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3448 | NM_002172 | **IFNA14** | interferon alpha 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3449 | NM_002173 | **IFNA16** | interferon alpha 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3451 | NM_021268 | **IFNA17** | interferon alpha 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3452 | NM_002175 | **IFNA21** | interferon alpha 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3453 | NR_036676 | **IFNA22P** | interferon alpha 22, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 3454 | NM_000629,XM_00 | **IFNAR1** | interferon alpha and beta | protein_coding | 26 | 22 | 27 | 23 | 0.845 |
| 3455 | NM_000874,NM_00 | **IFNAR2** | interferon alpha and beta | protein_coding | 37 | 34 | 38 | 35 | 0.925 |
| 3456 | NM_002176 | **IFNB1** | interferon beta 1 | protein_coding | 1 | 1 | 2 | 2 | 0.943 |
| 3458 | NM_000619 | **IFNG** | interferon gamma | protein_coding | 61 | 55 | 62 | 56 | 0.899 |
| 3459 | NM_000416,NM_00 | **IFNGR1** | interferon gamma recept | protein_coding | 27 | 22 | 28 | 23 | 0.813 |
| 3460 | NM_001329128,NM | **IFNGR2** | interferon gamma recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3467 | NM_002177 | **IFNW1** | interferon omega 1 | protein_coding | 0 | 0 | 1 | 1 | 1.157 |
| 3475 | NM_001007245,NM | **IFRD1** | interferon related develo | protein_coding | 34 | 32 | 35 | 33 | 0.932 |
| 3476 | NM_001370192,NM | **IGBP1** | immunoglobulin binding | protein_coding | 49 | 43 | 50 | 44 | 0.881 |
| 3479 | NM_000618,NM_00 | **IGF1** | insulin like growth factor | protein_coding | 2 | 1 | 3 | 2 | 0.942 |
| 3480 | NM_000875,NM_00 | **IGF1R** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 0.943 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3481 | NM_000612,NM_00 | **IGF2** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3482 | NM_000876 | **IGF2R** | insulin like growth factor | protein_coding | 40 | 40 | 41 | 41 | 0.992 |
| 3483 | NM_001146006,NM | **IGFALS** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3484 | NM_000596 | **IGFBP1** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3485 | NM_000597,NM_00 | **IGFBP2** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3486 | NM_000598,NM_00 | **IGFBP3** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 0.903 |
| 3487 | NM_001552 | **IGFBP4** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3488 | NM_000599 | **IGFBP5** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 3489 | NM_002178 | **IGFBP6** | insulin like growth factor | protein_coding | 2 | 1 | 3 | 2 | 0.700 |
| 3490 | NM_001253835,NM | **IGFBP7** | insulin like growth factor | protein_coding | 15 | 14 | 16 | 15 | 0.949 |
| 3491 | NM_001554 | **CCN1** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3493 | id-IGHA1 | **IGHA1** | immunoglobulin heavy co | C_region | 1 | 1 | 2 | 2 | 1.098 |
| 3494 | id-IGHA2 | **IGHA2** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3495 | id-IGHD | **IGHD** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.281 |
| 3497 | id-IGHE | **IGHE** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3498 | id-IGHEP1 | **IGHEP1** | immunoglobulin heavy co | C_region_pseudo | 0 | 0 | 1 | 1 | 1.000 |
| 3500 | id-IGHG1 | **IGHG1** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3501 | id-IGHG2 | **IGHG2** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3502 | id-IGHG3,id-IGHG3 | **IGHG3** | immunoglobulin heavy co | C_region | 2 | 2 | 3 | 3 | 0.995 |
| 3503 | id-IGHG4 | **IGHG4** | immunoglobulin heavy co | C_region | 0 | 0 | 1 | 1 | 1.072 |
| 3505 | id-IGHGP | **IGHGP** | immunoglobulin heavy co | C_region_pseudo | 0 | 0 | 1 | 1 | 1.000 |
| 3507 | id-IGHM,id-IGHM-2 | **IGHM** | immunoglobulin heavy co | C_region | 64 | 69 | 65 | 70 | 1.069 |
| 3508 | NM_002180,XM_00 | **IGHMBP2** | immunoglobulin mu DNA | protein_coding | 14 | 15 | 15 | 16 | 1.054 |
| 3512 | NM_144646 | **JCHAIN** | joining chain of multimer | protein_coding | 1 | 1 | 2 | 2 | 1.035 |
| 3513 | gene-JCHAINP1 | **JCHAINP1** | joining chain of multimer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3514 | id-IGKC | **IGKC** | immunoglobulin kappa c | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3516 | NM_001363577,NM | **RBPJ** | recombination signal bin | protein_coding | 50 | 35 | 51 | 36 | 0.702 |
| 3537 | id-IGLC1 | **IGLC1** | immunoglobulin lambda | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3538 | id-IGLC2 | **IGLC2** | immunoglobulin lambda | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3539 | id-IGLC3 | **IGLC3** | immunoglobulin lambda | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 3540 | id-IGLC4 | **IGLC4** | immunoglobulin lambda | C_region_pseudo | 0 | 0 | 1 | 1 | 1.000 |
| 3541 | id-IGLC5 | **IGLC5** | immunoglobulin lambda | C_region_pseudo | 0 | 0 | 1 | 1 | 1.000 |
| 3542 | id-IGLC6 | **IGLC6** | immunoglobulin lambda | C_region_pseudo | 0 | 0 | 1 | 1 | 1.000 |
| 3543 | NM_001369906,NM | **IGLL1** | immunoglobulin lambda | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3547 | NM_001170961,NM | **IGSF1** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3549 | NM_002181 | **IHH** | Indian hedgehog signalir | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 3550 | NM_006083,XR_002 | **IK** | IK cytokine | protein_coding | 139 | 134 | 140 | 135 | 0.964 |
| 3551 | NM_001190720,NM | **IKBKB** | inhibitor of nuclear factor | protein_coding | 22 | 23 | 23 | 24 | 1.066 |
| 3552 | NM_000575,NM_00 | **IL1A** | interleukin 1 alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3553 | NM_000576,XM_01 | **IL1B** | interleukin 1 beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3554 | NM_000877,NM_00 | **IL1R1** | interleukin 1 receptor typ | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 3556 | NM_001167928,NM | **IL1RAP** | interleukin 1 receptor acc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3557 | NM_000577,NM_00 | **IL1RN** | interleukin 1 receptor ant | protein_coding | 33 | 19 | 34 | 20 | 0.596 |
| 3558 | NM_000586 | **IL2** | interleukin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3559 | NM_000417,NM_00 | **IL2RA** | interleukin 2 receptor sul | protein_coding | 49 | 44 | 50 | 45 | 0.913 |
| 3560 | NM_000878,NM_00 | **IL2RB** | interleukin 2 receptor sul | protein_coding | 669 | 696 | 670 | 697 | 1.039 |
| 3561 | NM_000206 | **IL2RG** | interleukin 2 receptor sul | protein_coding | 428 | 427 | 429 | 428 | 0.998 |
| 3562 | NM_000588 | **IL3** | interleukin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3563 | NM_001267713,NM | **IL3RA** | interleukin 3 receptor sul | protein_coding | 4 | 4 | 5 | 5 | 1.039 |
| 3565 | NM_000589,NM_00 | **IL4** | interleukin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3566 | NM_000418,NM_00 | **IL4R** | interleukin 4 receptor | protein_coding | 52 | 44 | 53 | 45 | 0.848 |
| 3567 | NM_000879,XM_00 | **IL5** | interleukin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3568 | NM_000564,NM_00 | **IL5RA** | interleukin 5 receptor sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3569 | NM_000600,NM_00 | **IL6** | interleukin 6 | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 3570 | NM_000565,NM_00 | **IL6R** | interleukin 6 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3572 | NM_001190981,NM | **IL6ST** | interleukin 6 signal trans | protein_coding | 10 | 8 | 11 | 9 | 0.823 |
| 3573 | gene-IL6STP1 | **IL6STP1** | interleukin 6 signal trans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3574 | NM_000880,NM_00 | **IL7** | interleukin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3575 | NM_002185,NR_12 | **IL7R** | interleukin 7 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3576 | NM_000584,NM_00 | **CXCL8** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3577 | NM_000634 | **CXCR1** | C-X-C motif chemokine r | protein_coding | 3 | 3 | 4 | 4 | 0.936 |
| 3578 | NM_000590 | **IL9** | interleukin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3579 | NM_001168298,NM | **CXCR2** | C-X-C motif chemokine r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3580 | NR_002712 | **CXCR2P1** | C-X-C motif chemokine r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 3581 | NM_002186,NM_00 | **IL9R** | interleukin 9 receptor | protein_coding | 12 | 7 | 13 | 8 | 0.624 |
| 3586 | NM_000572,NM_00 | **IL10** | interleukin 10 | protein_coding | 37 | 47 | 38 | 48 | 1.261 |
| 3587 | NM_001558,NR_02 | **IL10RA** | interleukin 10 receptor su | protein_coding | 10 | 10 | 11 | 11 | 1.016 |
| 3588 | NM_000628 | **IL10RB** | interleukin 10 receptor su | protein_coding | 43 | 42 | 44 | 43 | 0.990 |
| 3589 | NM_000641,NM_00 | **IL11** | interleukin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.071 |
| 3590 | NM_001142784,NR | **IL11RA** | interleukin 11 receptor su | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 3592 | NM_000882,NM_00 | **IL12A** | interleukin 12A | protein_coding | 2 | 2 | 3 | 3 | 0.946 |
| 3593 | NM_002187 | **IL12B** | interleukin 12B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3594 | NM_001290023,NM | **IL12RB1** | interleukin 12 receptor su | protein_coding | 45 | 50 | 46 | 51 | 1.089 |
| 3595 | NM_001258214,NM | **IL12RB2** | interleukin 12 receptor su | protein_coding | 80 | 76 | 81 | 77 | 0.950 |
| 3596 | NM_001354991,NM | **IL13** | interleukin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3597 | NM_001560,XM_01 | **IL13RA1** | interleukin 13 receptor su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3598 | NM_000640 | **IL13RA2** | interleukin 13 receptor su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3600 | NM_000585,NM_17 | **IL15** | interleukin 15 | protein_coding | 6 | 4 | 7 | 5 | 0.799 |
| 3601 | NM_001243539,NM | **IL15RA** | interleukin 15 receptor su | protein_coding | 36 | 34 | 37 | 35 | 0.937 |
| 3603 | NM_001172128,NM | **IL16** | interleukin 16 | protein_coding | 30 | 30 | 31 | 31 | 0.980 |
| 3604 | NM_001561,XM_00 | **TNFRSF9** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 3605 | NM_002190 | **IL17A** | interleukin 17A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3606 | NM_001243211,NM | **IL18** | interleukin 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3607 | NM_004514,XM_02 | **FOXK2** | forkhead box K2 | protein_coding | 72 | 71 | 73 | 72 | 0.993 |
| 3608 | NM_001267809,NM | **ILF2** | interleukin enhancer bin | protein_coding | 503 | 505 | 504 | 506 | 1.004 |
| 3609 | NM_001137673,NM | **ILF3** | interleukin enhancer bin | protein_coding | 340 | 326 | 341 | 327 | 0.958 |
| 3611 | NM_001014794,NM | **ILK** | integrin linked kinase | protein_coding | 39 | 45 | 40 | 46 | 1.132 |
| 3612 | NM_001144878,NM | **IMPA1** | inositol monophosphatas | protein_coding | 61 | 49 | 62 | 50 | 0.819 |
| 3613 | NM_014214,XM_01 | **IMPA2** | inositol monophosphatas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3614 | NM_000883,NM_00 | **IMPDH1** | inosine monophosphate | protein_coding | 46 | 46 | 47 | 47 | 1.012 |
| 3615 | NM_000884,XM_00 | **IMPDH2** | inosine monophosphate | protein_coding | 401 | 379 | 402 | 380 | 0.945 |
| 3617 | NM_001282368,NM | **IMPG1** | interphotoreceptor matrix | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3619 | NM_001040694,NM | **INCENP** | inner centromere protein | protein_coding | 54 | 51 | 55 | 52 | 0.938 |
| 3620 | NM_002164 | **IDO1** | indoleamine 2,3-dioxyge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3621 | NM_001267728,NM | **ING1** | inhibitor of growth family | protein_coding | 23 | 20 | 24 | 21 | 0.851 |
| 3622 | NM_001291959,NM | **ING2** | inhibitor of growth family | protein_coding | 9 | 8 | 10 | 9 | 0.973 |
| 3623 | NM_002191 | **INHA** | inhibin subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3624 | NM_002192,XM_01 | **INHBA** | inhibin subunit beta A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3625 | NM_002193 | **INHBB** | inhibin subunit beta B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3626 | NM_005538 | **INHBC** | inhibin subunit beta C | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 3627 | NM_001565,NR_16 | **CXCL10** | C-X-C motif chemokine li | protein_coding | 1 | 2 | 2 | 3 | 1.239 |
| 3628 | NM_001128928,NM | **INPP1** | inositol polyphosphate-1 | protein_coding | 33 | 34 | 34 | 35 | 1.037 |
| 3630 | NM_000207,NM_00 | **INS** | insulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3631 | NM_001134224,NM | **INPP4A** | inositol polyphosphate-4 | protein_coding | 34 | 29 | 35 | 30 | 0.844 |
| 3632 | NM_001321042,NM | **INPP5A** | inositol polyphosphate-5 | protein_coding | 3 | 2 | 4 | 3 | 0.789 |
| 3633 | NM_001297434,NM | **INPP5B** | inositol polyphosphate-5 | protein_coding | 14 | 12 | 15 | 13 | 0.909 |
| 3635 | NM_001017915,NM | **INPP5D** | inositol polyphosphate-5 | protein_coding | 105 | 98 | 106 | 99 | 0.940 |
| 3636 | NM_001567,XM_00 | **INPPL1** | inositol polyphosphate p | protein_coding | 41 | 36 | 42 | 37 | 0.879 |
| 3638 | NM_001346590,NM | **INSIG1** | insulin induced gene 1 | protein_coding | 58 | 58 | 59 | 59 | 0.989 |
| 3640 | NM_001265587,NM | **INSL3** | insulin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.333 |
| 3641 | NM_002195 | **INSL4** | insulin like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3642 | NM_002196 | **INSM1** | INSM transcriptional repr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3643 | NM_000208,NM_00 | **INSR** | insulin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3645 | NM_014215 | **INSRR** | insulin receptor related r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3646 | NM_001568,XM_01 | **EIF3E** | eukaryotic translation init | protein_coding | 345 | 309 | 346 | 310 | 0.897 |
| 3647 | gene-EIF3EP1 | **EIF3EP1** | eukaryotic translation init | pseudogene | 6 | 4 | 7 | 5 | 0.771 |
| 3651 | NM_000209,XR_94 | **PDX1** | pancreatic and duodenal | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3652 | NM_001145349,NM | **IPP** | intracisternal A particle-p | protein_coding | 11 | 11 | 12 | 12 | 0.997 |
| 3653 | NR_023915 | **IPW** | imprinted in Prader-Willi | lncRNA | 2 | 2 | 3 | 3 | 0.987 |
| 3654 | NM_001025242,NM | **IRAK1** | interleukin 1 receptor ass | protein_coding | 189 | 190 | 190 | 191 | 1.002 |
| 3655 | NM_000210,NM_00 | **ITGA6** | integrin subunit alpha 6 | protein_coding | 26 | 26 | 27 | 27 | 0.985 |
| 3656 | NM_001570 | **IRAK2** | interleukin 1 receptor ass | protein_coding | 1 | 1 | 2 | 2 | 1.061 |
| 3658 | NM_001320941,NM | **IREB2** | iron responsive element | protein_coding | 73 | 62 | 74 | 63 | 0.842 |
| 3659 | NM_001354924,NM | **IRF1** | interferon regulatory fact | protein_coding | 120 | 134 | 121 | 135 | 1.114 |
| 3660 | NM_002199,XM_02 | **IRF2** | interferon regulatory fact | protein_coding | 30 | 27 | 31 | 28 | 0.925 |
| 3661 | NM_001197122,NM | **IRF3** | interferon regulatory fact | protein_coding | 74 | 79 | 75 | 80 | 1.075 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3662 | NM_001195286,NM | **IRF4** | interferon regulatory fact | protein_coding | 56 | 61 | 57 | 62 | 1.080 |
| 3663 | NM_001098627,NM | **IRF5** | interferon regulatory fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3664 | NM_001206696,NM | **IRF6** | interferon regulatory fact | protein_coding | 1 | 1 | 2 | 2 | 1.007 |
| 3665 | NM_001572,NM_00 | **IRF7** | interferon regulatory fact | protein_coding | 37 | 33 | 38 | 34 | 0.913 |
| 3667 | NM_005544 | **IRS1** | insulin receptor substrate | protein_coding | 1 | 1 | 2 | 2 | 0.815 |
| 3669 | NM_001303233,NM | **ISG20** | interferon stimulated exo | protein_coding | 53 | 58 | 54 | 59 | 1.088 |
| 3670 | NM_002202,XM_01 | **ISL1** | ISL LIM homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3671 | NM_005545,NM_20 | **ISLR** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3672 | NM_181501 | **ITGA1** | integrin subunit alpha 1 | protein_coding | 3 | 2 | 4 | 3 | 0.658 |
| 3673 | NM_002203,NR_07 | **ITGA2** | integrin subunit alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3674 | NM_000419,XM_01 | **ITGA2B** | integrin subunit alpha 2b | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 3675 | NM_002204,XM_00 | **ITGA3** | integrin subunit alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3676 | NM_000885,NM_00 | **ITGA4** | integrin subunit alpha 4 | protein_coding | 309 | 276 | 310 | 277 | 0.891 |
| 3678 | NM_002205,XM_02 | **ITGA5** | integrin subunit alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3679 | NM_001144996,NM | **ITGA7** | integrin subunit alpha 7 | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 3680 | NM_002207 | **ITGA9** | integrin subunit alpha 9 | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 3681 | NM_001318185,NM | **ITGAD** | integrin subunit alpha D | protein_coding | 60 | 60 | 61 | 61 | 0.996 |
| 3682 | NM_002208,XM_01 | **ITGAE** | integrin subunit alpha E | protein_coding | 5 | 4 | 6 | 5 | 0.861 |
| 3683 | NM_001114380,NM | **ITGAL** | integrin subunit alpha L | protein_coding | 229 | 224 | 230 | 225 | 0.976 |
| 3684 | NM_000632,NM_00 | **ITGAM** | integrin subunit alpha M | protein_coding | 3 | 2 | 4 | 3 | 0.969 |
| 3685 | NM_001144999,NM | **ITGAV** | integrin subunit alpha V | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3687 | NM_000887,NM_00 | **ITGAX** | integrin subunit alpha X | protein_coding | 15 | 15 | 16 | 16 | 1.005 |
| 3688 | NM_002211,NM_03 | **ITGB1** | integrin subunit beta 1 | protein_coding | 62 | 52 | 63 | 53 | 0.838 |
| 3689 | NM_000211,NM_00 | **ITGB2** | integrin subunit beta 2 | protein_coding | 431 | 427 | 432 | 428 | 0.991 |
| 3690 | NM_000212 | **ITGB3** | integrin subunit beta 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3691 | NM_000213,NM_00 | **ITGB4** | integrin subunit beta 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3692 | NM_001267810,NM | **EIF6** | eukaryotic translation init | protein_coding | 455 | 461 | 456 | 462 | 1.013 |
| 3693 | NM_001354764,NM | **ITGB5** | integrin subunit beta 5 | protein_coding | 9 | 7 | 10 | 8 | 0.857 |
| 3694 | NM_000888,NM_00 | **ITGB6** | integrin subunit beta 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3695 | NM_000889,NR_10 | **ITGB7** | integrin subunit beta 7 | protein_coding | 157 | 160 | 158 | 161 | 1.021 |
| 3696 | NM_002214,XM_01 | **ITGB8** | integrin subunit beta 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3697 | NM_001166434,NM | **ITIH1** | inter-alpha-trypsin inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3698 | NM_002216 | **ITIH2** | inter-alpha-trypsin inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3699 | NM_002217,XM_00 | **ITIH3** | inter-alpha-trypsin inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3700 | NM_001166449,NM | **ITIH4** | inter-alpha-trypsin inhibit | protein_coding | 1 | 1 | 2 | 2 | 1.087 |
| 3702 | NM_005546,XM_01 | **ITK** | IL2 inducible T cell kinas | protein_coding | 72 | 69 | 73 | 70 | 0.956 |
| 3703 | NM_001278503,NM | **STT3A** | STT3 oligosaccharyltrans | protein_coding | 108 | 101 | 109 | 102 | 0.935 |
| 3704 | NM_001267623,NM | **ITPA** | inosine triphosphatase | protein_coding | 150 | 150 | 151 | 151 | 0.999 |
| 3705 | NM_001142593,NM | **ITPK1** | inositol-tetrakisphosphat | protein_coding | 79 | 88 | 80 | 89 | 1.103 |
| 3706 | NM_002220,XM_01 | **ITPKA** | inositol-trisphosphate 3-k | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3707 | NM_002221,XM_00 | **ITPKB** | inositol-trisphosphate 3-k | protein_coding | 10 | 8 | 11 | 9 | 0.868 |
| 3708 | NM_001099952,NM | **ITPR1** | inositol 1,4,5-trisphospha | protein_coding | 22 | 16 | 23 | 17 | 0.745 |
| 3709 | NM_002223,XM_01 | **ITPR2** | inositol 1,4,5-trisphospha | protein_coding | 2 | 2 | 3 | 3 | 0.872 |
| 3710 | NM_002224,XM_01 | **ITPR3** | inositol 1,4,5-trisphospha | protein_coding | 49 | 45 | 50 | 46 | 0.921 |
| 3712 | NM_001159508,NM | **IVD** | isovaleryl-CoA dehydrog | protein_coding | 53 | 55 | 54 | 56 | 1.031 |
| 3713 | NM_005547 | **IVL** | involucrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3714 | NM_002226,NM_14 | **JAG2** | jagged canonical Notch l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3716 | NM_001320923,NM | **JAK1** | Janus kinase 1 | protein_coding | 115 | 102 | 116 | 103 | 0.891 |
| 3717 | NM_001322194,NM | **JAK2** | Janus kinase 2 | protein_coding | 5 | 5 | 6 | 6 | 0.968 |
| 3718 | NM_000215,XM_01 | **JAK3** | Janus kinase 3 | protein_coding | 20 | 22 | 21 | 23 | 1.076 |
| 3720 | NM_001267040,NM | **JARID2** | jumonji and AT-rich inter | protein_coding | 22 | 20 | 23 | 21 | 0.903 |
| 3725 | NM_002228 | **JUN** | Jun proto-oncogene, AP- | protein_coding | 19 | 21 | 20 | 22 | 1.112 |
| 3726 | NM_002229 | **JUNB** | JunB proto-oncogene, A | protein_coding | 48 | 58 | 49 | 59 | 1.194 |
| 3727 | NM_001286968,NM | **JUND** | JunD proto-oncogene, A | protein_coding | 167 | 170 | 168 | 171 | 1.021 |
| 3728 | NM_001352773,NM | **JUP** | junction plakoglobin | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 3730 | NM_000216,XM_00 | **ANOS1** | anosmin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3732 | NM_001024844,NM | **CD82** | CD82 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.075 |
| 3734 | gene-ANOS2P | **ANOS2P** | anosmin 2, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 3735 | NM_001130089,NM | **KARS1** | lysyl-tRNA synthetase 1 | protein_coding | 340 | 320 | 341 | 321 | 0.943 |
| 3736 | NM_000217 | **KCNA1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3737 | NM_001204269,NM | **KCNA2** | potassium voltage-gated | protein_coding | 2 | 1 | 3 | 2 | 0.813 |
| 3738 | NM_002232,NR_10 | **KCNA3** | potassium voltage-gated | protein_coding | 141 | 113 | 142 | 114 | 0.803 |
| 3739 | NM_002233 | **KCNA4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3741 | NM_002234 | **KCNA5** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3742 | NM_002235,XM_00 | **KCNA6** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3743 | NM_031886 | **KCNA7** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3744 | NM_005549 | **KCNA10** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3745 | NM_004975,XM_00 | **KCNB1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3746 | NM_001112741,NM | **KCNC1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 3747 | NM_001260497,NM | **KCNC2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3748 | NM_001372305,NM | **KCNC3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 3749 | NM_001039574,NM | **KCNC4** | potassium voltage-gated | protein_coding | 3 | 2 | 4 | 3 | 0.784 |
| 3750 | NM_004979,XM_01 | **KCND1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 3751 | NM_012281,XM_01 | **KCND2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 3752 | NM_001378969,NM | **KCND3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3753 | NM_000219,NM_00 | **KCNE1** | potassium voltage-gated | protein_coding | 2 | 1 | 3 | 2 | 0.823 |
| 3754 | NM_002236 | **KCNF1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3755 | NM_002237,XM_00 | **KCNG1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3756 | NM_002238,NM_17 | **KCNH1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3757 | NM_000238,NM_00 | **KCNH2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3758 | NM_000220,NM_15 | **KCNJ1** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3759 | NM_000891 | **KCNJ2** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3760 | NM_001260508,NM | **KCNJ3** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3761 | NM_004981,NM_15 | **KCNJ4** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3762 | NM_000890,NM_00 | **KCNJ5** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3763 | NM_002240 | **KCNJ6** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3764 | NM_004982,XM_00 | **KCNJ8** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3765 | NM_004983 | **KCNJ9** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3766 | NM_002241 | **KCNJ10** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3767 | NM_000525,NM_00 | **KCNJ11** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 3768 | NM_021012,XM_00 | **KCNJ12** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3769 | NM_001172416,NM | **KCNJ13** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3770 | NM_013348 | **KCNJ14** | potassium inwardly rectif | protein_coding | 1 | 1 | 2 | 2 | 1.153 |
| 3772 | NM_001276435,NM | **KCNJ15** | potassium inwardly rectif | protein_coding | 1 | 1 | 2 | 2 | 1.081 |
| 3773 | NM_001270422,NM | **KCNJ16** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3775 | NM_002245,XM_01 | **KCNK1** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3776 | NM_001017424,NM | **KCNK2** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3777 | NM_002246,XM_00 | **KCNK3** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3778 | NM_001014797,NM | **KCNMA1** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3779 | NM_004137 | **KCNMB1** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3780 | NM_002248,XM_00 | **KCNN1** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3781 | NM_001278204,NM | **KCNN2** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3782 | NM_001204087,NM | **KCNN3** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3783 | NM_002250,XM_00 | **KCNN4** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3784 | NM_000218,NM_18 | **KCNQ1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3785 | NM_001382235,NM | **KCNQ2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3786 | NM_001204824,NM | **KCNQ3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3787 | NM_001322799,NM | **KCNS1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3788 | NM_020697 | **KCNS2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3790 | NM_001282428,NM | **KCNS3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3791 | NM_002253 | **KDR** | kinase insert domain rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3792 | NM_000420,XM_00 | **KEL** | Kell metallo-endopeptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3795 | NM_000221,NM_00 | **KHK** | ketohexokinase | protein_coding | 3 | 2 | 4 | 3 | 0.823 |
| 3796 | NM_001098511,NM | **KIF2A** | kinesin family member 2/ | protein_coding | 143 | 124 | 144 | 125 | 0.867 |
| 3797 | NM_002254,XM_00 | **KIF3C** | kinesin family member 3( | protein_coding | 1 | 1 | 2 | 2 | 1.061 |
| 3798 | NM_001354705,NM | **KIF5A** | kinesin family member 5/ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3799 | NM_004521,XM_01 | **KIF5B** | kinesin family member 5I | protein_coding | 33 | 28 | 34 | 29 | 0.847 |
| 3800 | NM_004522,NR_11 | **KIF5C** | kinesin family member 5( | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 3801 | NM_001130099,NM | **KIFC3** | kinesin family member C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3802 | NM_014218,XM_01 | **KIR2DL1** | killer cell immunoglobulii | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3804 | NM_015868 | **KIR2DL3** | killer cell immunoglobulii | protein_coding | 0 | 0 | 1 | 1 | 0.859 |
| 3805 | NM_001080770,NM | **KIR2DL4** | killer cell immunoglobulii | protein_coding | 109 | 96 | 110 | 97 | 0.887 |
| 3809 | NM_001281971,NM | **KIR2DS4** | killer cell immunoglobulii | protein_coding | 0 | 0 | 1 | 1 | 1.127 |
| 3811 | NM_013289 | **KIR3DL1** | killer cell immunoglobulii | protein_coding | 1 | 1 | 2 | 2 | 0.950 |
| 3812 | NM_001242867,NM | **KIR3DL2** | killer cell immunoglobulii | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3814 | NM_002256 | **KISS1** | KiSS-1 metastasis suppr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3815 | NM_000222,NM_00 | **KIT** | KIT proto-oncogene, rec | protein_coding | 0 | 0 | 1 | 1 | 0.931 |
| 3816 | NM_002257,XM_01 | **KLK1** | kallikrein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3817 | NM_001002231,NM | **KLK2** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3818 | NM_000892,NM_00 | **KLKB1** | kallikrein B1 | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 3820 | NM_002258 | **KLRB1** | killer cell lectin like recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3821 | NM_001304448,NM | **KLRC1** | killer cell lectin like recep | protein_coding | 202 | 182 | 203 | 183 | 0.901 |
| 3822 | NM_002260 | **KLRC2** | killer cell lectin like recep | protein_coding | 10 | 10 | 11 | 11 | 0.971 |
| 3823 | NM_002261,NM_00 | **KLRC3** | killer cell lectin like recep | protein_coding | 3 | 4 | 4 | 5 | 1.202 |
| 3824 | NM_001114396,NM | **KLRD1** | killer cell lectin like recep | protein_coding | 8 | 7 | 9 | 8 | 0.905 |
| 3827 | NM_000893,NM_00 | **KNG1** | kininogen 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3831 | NM_001130107,NM | **KLC1** | kinesin light chain 1 | protein_coding | 66 | 59 | 67 | 60 | 0.892 |
| 3832 | NM_004523 | **KIF11** | kinesin family member 1 | protein_coding | 89 | 79 | 90 | 80 | 0.883 |
| 3833 | NM_002263,XM_01 | **KIFC1** | kinesin family member C | protein_coding | 173 | 185 | 174 | 186 | 1.069 |
| 3834 | NM_005355,NM_03 | **KIF25** | kinesin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3835 | NM_001256269,NM | **KIF22** | kinesin family member 2 | protein_coding | 158 | 161 | 159 | 162 | 1.023 |
| 3836 | NM_002264,NR_02 | **KPNA1** | karyopherin subunit alph | protein_coding | 54 | 39 | 55 | 40 | 0.729 |
| 3837 | NM_001276453,NM | **KPNB1** | karyopherin subunit beta | protein_coding | 385 | 354 | 386 | 355 | 0.918 |
| 3838 | NM_001320611,NM | **KPNA2** | karyopherin subunit alph | protein_coding | 607 | 618 | 608 | 619 | 1.019 |
| 3839 | NM_002267,XM_01 | **KPNA3** | karyopherin subunit alph | protein_coding | 113 | 98 | 114 | 99 | 0.876 |
| 3840 | NM_002268 | **KPNA4** | karyopherin subunit alph | protein_coding | 50 | 45 | 51 | 46 | 0.909 |
| 3841 | NM_001366304,NM | **KPNA5** | karyopherin subunit alph | protein_coding | 3 | 3 | 4 | 4 | 0.919 |
| 3842 | NM_001364292,NM | **TNPO1** | transportin 1 | protein_coding | 88 | 71 | 89 | 72 | 0.817 |
| 3843 | NM_002271,XM_00 | **IPO5** | importin 5 | protein_coding | 229 | 205 | 230 | 206 | 0.896 |
| 3844 | gene-KRASP1 | **KRASP1** | KRAS proto-oncogene, C | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 3845 | NM_001369786,NM | **KRAS** | KRAS proto-oncogene, C | protein_coding | 67 | 56 | 68 | 57 | 0.839 |
| 3846 | NM_005553 | **KRTAP5-9** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3848 | NM_006121 | **KRT1** | keratin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3849 | NM_000423 | **KRT2** | keratin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3850 | NM_057088,XM_02 | **KRT3** | keratin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3851 | NM_002272 | **KRT4** | keratin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3852 | NM_000424 | **KRT5** | keratin 5 | protein_coding | 1 | 1 | 2 | 2 | 1.226 |
| 3853 | NM_005554 | **KRT6A** | keratin 6A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3854 | NM_005555 | **KRT6B** | keratin 6B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3855 | NM_005556,XM_01 | **KRT7** | keratin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3856 | NM_001256282,NM | **KRT8** | keratin 8 | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 3857 | NM_000226 | **KRT9** | keratin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3858 | NM_000421,NM_00 | **KRT10** | keratin 10 | protein_coding | 12 | 13 | 13 | 14 | 1.116 |
| 3859 | NM_000223 | **KRT12** | keratin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3860 | NM_002274,NM_15 | **KRT13** | keratin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3861 | NM_000526 | **KRT14** | keratin 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3866 | NM_002275,XM_01 | **KRT15** | keratin 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3868 | NM_005557 | **KRT16** | keratin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3872 | NM_000422 | **KRT17** | keratin 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3875 | NM_000224,NM_19 | **KRT18** | keratin 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3876 | gene-KRT18P11 | **KRT18P11** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3879 | gene-KRT18P1 | **KRT18P1** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3880 | NM_002276 | **KRT19** | keratin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3881 | NM_002277 | **KRT31** | keratin 31 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3882 | NM_002278,XR_93 | **KRT32** | keratin 32 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3883 | NM_004138,XM_01 | **KRT33A** | keratin 33A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3884 | NM_002279 | **KRT33B** | keratin 33B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3885 | NM_021013,XM_01 | **KRT34** | keratin 34 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3886 | NM_002280,XM_01 | **KRT35** | keratin 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3887 | NM_002281 | **KRT81** | keratin 81 | protein_coding | 138 | 115 | 139 | 116 | 0.831 |
| 3888 | NM_033033 | **KRT82** | keratin 82 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3889 | NM_002282 | **KRT83** | keratin 83 | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 3890 | NM_033045,XM_01 | **KRT84** | keratin 84 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3891 | NM_001300810,NM | **KRT85** | keratin 85 | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 3892 | NM_001320198,XM | **KRT86** | keratin 86 | protein_coding | 23 | 20 | 24 | 21 | 0.874 |
| 3895 | NM_001079521,NM | **KTN1** | kinectin 1 | protein_coding | 62 | 53 | 63 | 54 | 0.856 |
| 3897 | NM_000425,NM_00 | **L1CAM** | L1 cell adhesion molecul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3898 | NM_005558 | **LAD1** | ladinin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3899 | NM_001025108,NM | **AFF3** | AF4/FMR2 family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3902 | NM_002286,XM_01 | **LAG3** | lymphocyte activating 3 | protein_coding | 14 | 15 | 15 | 16 | 1.077 |
| 3903 | NM_001289023,NM | **LAIR1** | leukocyte associated imr | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 3904 | NM_002288,NM_02 | **LAIR2** | leukocyte associated imr | protein_coding | 25 | 31 | 26 | 32 | 1.239 |
| 3906 | NM_002289,XM_00 | **LALBA** | lactalbumin alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3908 | NM_000426,NM_00 | **LAMA2** | laminin subunit alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 3909 | NM_000227,NM_00 | **LAMA3** | laminin subunit alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 3910 | NM_001105206,NM | **LAMA4** | laminin subunit alpha 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3911 | NM_005560,XM_00 | **LAMA5** | laminin subunit alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3912 | NM_002291,XM_01 | **LAMB1** | laminin subunit beta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3913 | NM_002292,XM_00 | **LAMB2** | laminin subunit beta 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3914 | NM_000228,NM_00 | **LAMB3** | laminin subunit beta 3 | protein_coding | 1 | 1 | 2 | 2 | 0.905 |
| 3915 | NM_002293 | **LAMC1** | laminin subunit gamma 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3916 | NM_005561,XM_01 | **LAMP1** | lysosomal associated me | protein_coding | 98 | 106 | 99 | 107 | 1.086 |
| 3918 | NM_005562,NM_01 | **LAMC2** | laminin subunit gamma 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3920 | NM_001122606,NM | **LAMP2** | lysosomal associated me | protein_coding | 72 | 64 | 73 | 65 | 0.886 |
| 3921 | NM_001304288,NM | **RPSA** | ribosomal protein SA | protein_coding | 1,868 | 1,881 | 1,869 | 1,882 | 1.007 |
| 3923 | gene-RPSAP13 | **RPSAP13** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 3924 | gene-RPSAP14 | **RPSAP14** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.078 |
| 3925 | NM_001145454,NM | **STMN1** | stathmin 1 | protein_coding | 509 | 511 | 510 | 512 | 1.003 |
| 3927 | NM_001271608,NM | **LASP1** | LIM and SH3 protein 1 | protein_coding | 439 | 443 | 440 | 444 | 1.009 |
| 3929 | NM_004139 | **LBP** | lipopolysaccharide bindir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3930 | NM_002296,NM_19 | **LBR** | lamin B receptor | protein_coding | 278 | 241 | 279 | 242 | 0.867 |
| 3931 | NM_000229 | **LCAT** | lecithin-cholesterol acyltr | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 3932 | NM_001042771,NM | **LCK** | LCK proto-oncogene, Sr | protein_coding | 75 | 74 | 76 | 75 | 0.984 |
| 3933 | NM_001252617,NM | **LCN1** | lipocalin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3934 | NM_005564 | **LCN2** | lipocalin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3936 | NM_002298,XM_00 | **LCP1** | lymphocyte cytosolic pro | protein_coding | 1,500 | 1,358 | 1,501 | 1,359 | 0.905 |
| 3937 | NM_005565 | **LCP2** | lymphocyte cytosolic pro | protein_coding | 182 | 173 | 183 | 174 | 0.949 |
| 3938 | NM_002299,XM_01 | **LCT** | lactase | protein_coding | 1 | 0 | 2 | 1 | 0.858 |
| 3939 | NM_001135239,NM | **LDHA** | lactate dehydrogenase A | protein_coding | 2,120 | 1,945 | 2,121 | 1,946 | 0.918 |
| 3940 | gene-LDHAP1 | **LDHAP1** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 3945 | NM_001174097,NM | **LDHB** | lactate dehydrogenase B | protein_coding | 856 | 827 | 857 | 828 | 0.966 |
| 3947 | gene-LDHBP2 | **LDHBP2** | lactate dehydrogenase B | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 3948 | NM_002301,NM_01 | **LDHC** | lactate dehydrogenase C | protein_coding | 10 | 10 | 11 | 11 | 0.982 |
| 3949 | NM_000527,NM_00 | **LDLR** | low density lipoprotein re | protein_coding | 68 | 68 | 69 | 69 | 0.998 |
| 3950 | NM_002302 | **LECT2** | leukocyte cell derived ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3952 | NM_000230,XM_00 | **LEP** | leptin | protein_coding | 49 | 47 | 50 | 48 | 0.942 |
| 3953 | NM_001003679,NM | **LEPR** | leptin receptor | protein_coding | 3 | 3 | 4 | 4 | 0.836 |
| 3954 | NM_012318,XM_00 | **LETM1** | leucine zipper and EF-ha | protein_coding | 48 | 49 | 49 | 50 | 1.019 |
| 3955 | NM_001040167,NM | **LFNG** | LFNG O-fucosylpeptide : | protein_coding | 13 | 13 | 14 | 14 | 1.038 |
| 3956 | NM_002305 | **LGALS1** | galectin 1 | protein_coding | 2,417 | 2,746 | 2,418 | 2,747 | 1.136 |
| 3957 | NM_006498 | **LGALS2** | galectin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3958 | NM_001357678,NM | **LGALS3** | galectin 3 | protein_coding | 62 | 62 | 63 | 63 | 1.000 |
| 3959 | NM_005567 | **LGALS3BP** | galectin 3 binding protei | protein_coding | 83 | 83 | 84 | 84 | 1.001 |
| 3960 | NM_006149,XM_01 | **LGALS4** | galectin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.250 |
| 3963 | NM_002307 | **LGALS7** | galectin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3964 | NM_006499,NM_20 | **LGALS8** | galectin 8 | protein_coding | 18 | 18 | 19 | 19 | 0.999 |
| 3965 | NM_001330163,NM | **LGALS9** | galectin 9 | protein_coding | 3 | 4 | 4 | 5 | 1.160 |
| 3972 | NM_000894 | **LHB** | luteinizing hormone subu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3973 | NM_000233,XM_00 | **LHCGR** | luteinizing hormone/chor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3975 | NM_005568 | **LHX1** | LIM homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3976 | NM_001257135,NM | **LIF** | LIF interleukin 6 family c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 3977 | NM_001127671,NM | **LIFR** | LIF receptor subunit alpl | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 3978 | NM_000234,NM_00 | **LIG1** | DNA ligase 1 | protein_coding | 81 | 84 | 82 | 85 | 1.039 |
| 3980 | NM_002311,NM_01 | **LIG3** | DNA ligase 3 | protein_coding | 27 | 24 | 28 | 25 | 0.898 |
| 3981 | NM_001098268,NM | **LIG4** | DNA ligase 4 | protein_coding | 22 | 18 | 23 | 19 | 0.842 |
| 3982 | NM_001161748,NM | **LIM2** | lens intrinsic membrane | protein_coding | 61 | 78 | 62 | 79 | 1.272 |
| 3983 | NM_001003407,NM | **ABLIM1** | actin binding LIM protein | protein_coding | 43 | 36 | 44 | 37 | 0.844 |
| 3984 | NM_001204426,NM | **LIMK1** | LIM domain kinase 1 | protein_coding | 102 | 102 | 103 | 103 | 0.999 |
| 3985 | NM_001031801,NM | **LIMK2** | LIM domain kinase 2 | protein_coding | 29 | 23 | 30 | 24 | 0.820 |
| 3987 | NM_001193482,NM | **LIMS1** | LIM zinc finger domain c | protein_coding | 87 | 77 | 88 | 78 | 0.884 |
| 3988 | NM_000235,NM_00 | **LIPA** | lipase A, lysosomal acid | protein_coding | 56 | 50 | 57 | 51 | 0.890 |
| 3990 | NM_000236,XM_00 | **LIPC** | lipase C, hepatic type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3991 | NM_005357,XM_00 | **LIPE** | lipase E, hormone sensit | protein_coding | 17 | 17 | 18 | 18 | 0.970 |
| 3992 | NM_013402,XM_01 | **FADS1** | fatty acid desaturase 1 | protein_coding | 2 | 2 | 3 | 3 | 0.974 |
| 3993 | NM_001015002,NM | **LLGL2** | LLGL scribble cell polarit | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 3995 | NM_021727,XM_01 | **FADS3** | fatty acid desaturase 3 | protein_coding | 1 | 0 | 2 | 1 | 0.856 |
| 3996 | NM_004140,XM_01 | **LLGL1** | LLGL scribble cell polarit | protein_coding | 12 | 13 | 13 | 14 | 1.027 |
| 3998 | NM_005570 | **LMAN1** | lectin, mannose binding | protein_coding | 157 | 125 | 158 | 126 | 0.798 |
| 4000 | NM_001257374,NM | **LMNA** | lamin A/C | protein_coding | 0 | 1 | 1 | 2 | 1.216 |
| 4001 | NM_001198557,NM | **LMNB1** | lamin B1 | protein_coding | 554 | 514 | 555 | 515 | 0.928 |
| 4004 | NM_001270428,NM | **LMO1** | LIM domain only 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4005 | NM_001142315,NM | **LMO2** | LIM domain only 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4007 | NM_001307979,NM | **PRICKLE3** | prickle planar cell polarit | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 4008 | NM_001306080,NM | **LMO7** | LIM domain 7 | protein_coding | 3 | 3 | 4 | 4 | 1.103 |
| 4009 | NM_001174069,NM | **LMX1A** | LIM homeobox transcript | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4010 | NM_001174146,NM | **LMX1B** | LIM homeobox transcript | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4012 | NM_005575,NM_17 | **LNPEP** | leucyl and cystinyl amin | protein_coding | 81 | 64 | 82 | 65 | 0.793 |
| 4013 | NM_001130142,NM | **VWA5A** | von Willebrand factor A | protein_coding | 1 | 1 | 2 | 2 | 1.278 |
| 4014 | NM_000427,XM_02 | **LORICRIN** | loricrin cornified envelop | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4015 | NM_001178102,NM | **LOX** | lysyl oxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4016 | NM_005576,XM_01 | **LOXL1** | lysyl oxidase like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.159 |
| 4017 | NM_002318 | **LOXL2** | lysyl oxidase like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 4018 | NM_005577 | **LPA** | lipoprotein(a) | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4023 | NM_000237 | **LPL** | lipoprotein lipase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4025 | NM_001160102,NM | **LPO** | lactoperoxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4026 | NM_001167671,NM | **LPP** | LIM domain containing p | protein_coding | 2 | 2 | 3 | 3 | 0.918 |
| 4033 | NM_001204126,NM | **IRAG2** | inositol 1,4,5-triphosphat | protein_coding | 4 | 6 | 5 | 7 | 1.296 |
| 4034 | NM_001289934,NM | **LRCH4** | leucine rich repeats and | protein_coding | 46 | 45 | 47 | 46 | 0.979 |
| 4035 | NM_002332,XM_01 | **LRP1** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 4036 | NM_004525,XM_01 | **LRP2** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 4037 | NM_002333,XM_00 | **LRP3** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4038 | NM_002334,XM_01 | **LRP4** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 4040 | NM_002336,XM_00 | **LRP6** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4041 | NM_001291902,NM | **LRP5** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4043 | NM_002337,NR_11 | **LRPAP1** | LDL receptor related pro | protein_coding | 28 | 29 | 29 | 30 | 1.030 |
| 4045 | NM_001318915,NM | **LSAMP** | limbic system associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4046 | NM_001013253,NM | **LSP1** | lymphocyte specific prot | protein_coding | 820 | 876 | 821 | 877 | 1.069 |
| 4047 | NM_001001438,NM | **LSS** | lanosterol synthase | protein_coding | 14 | 15 | 15 | 16 | 1.068 |
| 4048 | NM_000895,NM_00 | **LTA4H** | leukotriene A4 hydrolase | protein_coding | 71 | 67 | 72 | 68 | 0.955 |
| 4049 | NM_000595,NM_00 | **LTA** | lymphotoxin alpha | protein_coding | 389 | 367 | 390 | 368 | 0.942 |
| 4050 | NM_002341,NM_00 | **LTB** | lymphotoxin beta | protein_coding | 792 | 855 | 793 | 856 | 1.079 |
| 4051 | NM_000896,NM_00 | **CYP4F3** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4052 | NM_000627,NM_00 | **LTBP1** | latent transforming growt | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 4053 | NM_000428,XM_01 | **LTBP2** | latent transforming growt | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 4054 | NM_001130144,NM | **LTBP3** | latent transforming growt | protein_coding | 1 | 1 | 2 | 2 | 1.119 |
| 4055 | NM_001270987,NM | **LTBR** | lymphotoxin beta recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4056 | NM_145867 | **LTC4S** | leukotriene C4 synthase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4057 | NM_001199149,NM | **LTF** | lactotransferrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4058 | NM_001135685,NM | **LTK** | leukocyte receptor tyrosi | protein_coding | 0 | 0 | 1 | 1 | 1.127 |
| 4059 | NM_001013257,NM | **BCAM** | basal cell adhesion mole | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4060 | NM_002345 | **LUM** | lumican | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4061 | NM_001127213,NM | **LY6E** | lymphocyte antigen 6 far | protein_coding | 475 | 497 | 476 | 498 | 1.046 |
| 4062 | NM_001130478,NM | **LY6H** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4063 | NM_001033667,NM | **LY9** | lymphocyte antigen 9 | protein_coding | 1 | 2 | 2 | 3 | 1.228 |
| 4064 | NM_005582,XM_00 | **CD180** | CD180 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 4065 | NM_002349 | **LY75** | lymphocyte antigen 75 | protein_coding | 16 | 11 | 17 | 12 | 0.742 |
| 4066 | NM_005583 | **LYL1** | LYL1 basic helix-loop-he | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4067 | NM_001111097,NM | **LYN** | LYN proto-oncogene, Sr | protein_coding | 74 | 68 | 75 | 69 | 0.917 |
| 4068 | NM_001114937,NM | **SH2D1A** | SH2 domain containing 1 | protein_coding | 246 | 245 | 247 | 246 | 0.994 |
| 4069 | NM_000239 | **LYZ** | lysozyme | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 4070 | NM_002353 | **TACSTD2** | tumor associated calciun | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4071 | NM_014220,XM_01 | **TM4SF1** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4072 | NM_002354 | **EPCAM** | epithelial cell adhesion n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4074 | NM_001207024,NM | **M6PR** | mannose-6-phosphate re | protein_coding | 136 | 126 | 137 | 127 | 0.932 |
| 4076 | NM_005898,NM_20 | **CAPRIN1** | cell cycle associated pro | protein_coding | 249 | 241 | 250 | 242 | 0.966 |
| 4077 | NM_001291571,NM | **NBR1** | NBR1 autophagy cargo r | protein_coding | 42 | 38 | 43 | 39 | 0.912 |
| 4081 | NM_005584 | **MAB21L1** | mab-21 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4082 | NM_002356 | **MARCKS** | myristoylated alanine ricl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4083 | gene-MARCKSP1 | **MARCKSP1** | myristoylated alanine ricl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4084 | NM_001202513,NM | **MXD1** | MAX dimerization protein | protein_coding | 5 | 5 | 6 | 6 | 1.062 |
| 4085 | NM_002358 | **MAD2L1** | mitotic arrest deficient 2 l | protein_coding | 65 | 60 | 66 | 61 | 0.930 |
| 4086 | NM_001003688,NM | **SMAD1** | SMAD family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4087 | NM_001003652,NM | **SMAD2** | SMAD family member 2 | protein_coding | 16 | 14 | 17 | 15 | 0.906 |
| 4088 | NM_001145102,NM | **SMAD3** | SMAD family member 3 | protein_coding | 7 | 9 | 8 | 10 | 1.183 |
| 4089 | NM_005359 | **SMAD4** | SMAD family member 4 | protein_coding | 12 | 10 | 13 | 11 | 0.856 |
| 4090 | NM_001001419,NM | **SMAD5** | SMAD family member 5 | protein_coding | 11 | 9 | 12 | 10 | 0.826 |
| 4091 | NM_005585,NR_02 | **SMAD6** | SMAD family member 6 | protein_coding | 1 | 1 | 2 | 2 | 0.992 |
| 4092 | NM_001190821,NM | **SMAD7** | SMAD family member 7 | protein_coding | 15 | 13 | 16 | 14 | 0.859 |
| 4093 | NM_001127217,NM | **SMAD9** | SMAD family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4094 | NM_001031804,NM | **MAF** | MAF bZIP transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 4097 | NM_002359,NM_03 | **MAFG** | MAF bZIP transcription fa | protein_coding | 13 | 11 | 14 | 12 | 0.824 |
| 4099 | NM_001199216,NM | **MAG** | myelin associated glycop | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4100 | NM_004988 | **MAGEA1** | MAGE family member A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4101 | NM_001282501,NM | **MAGEA2** | MAGE family member A2 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 4102 | NM_005362,XM_00 | **MAGEA3** | MAGE family member A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4103 | NM_001011548,NM | **MAGEA4** | MAGE family member A4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4104 | NM_021049 | **MAGEA5** | MAGE family member A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4105 | NM_005363,NM_17 | **MAGEA6** | MAGE family member A6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4106 | gene-MAGEA7P | **MAGEA7P** | MAGE family member A7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4107 | NM_001166400,NM | **MAGEA8** | MAGE family member A8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4108 | NM_005365,XM_00 | **MAGEA9** | MAGE family member A9 | protein_coding | 0 | 0 | 1 | 1 | 1.078 |
| 4109 | NM_001011543,NM | **MAGEA10** | MAGE family member A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4110 | NM_001011544,NM | **MAGEA11** | MAGE family member A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4111 | NM_001166386,NM | **MAGEA12** | MAGE family member A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4112 | NM_002363,NM_17 | **MAGEB1** | MAGE family member B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4113 | NM_002364,XM_01 | **MAGEB2** | MAGE family member B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4114 | NM_002365,XM_01 | **MAGEB3** | MAGE family member B3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4115 | NM_002367 | **MAGEB4** | MAGE family member B4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4116 | NM_002370 | **MAGOH** | mago homolog, exon jun | protein_coding | 443 | 447 | 444 | 448 | 1.009 |
| 4117 | NM_001242385,NM | **MAK** | male germ cell associate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4118 | NM_002371,NM_02 | **MAL** | mal, T cell differentiation | protein_coding | 3 | 3 | 4 | 4 | 0.987 |
| 4121 | NM_005907,XM_00 | **MAN1A1** | mannosidase alpha clas | protein_coding | 81 | 62 | 82 | 63 | 0.761 |
| 4122 | NM_001320977,NM | **MAN2A2** | mannosidase alpha clas | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 4123 | NM_001256494,NM | **MAN2C1** | mannosidase alpha clas | protein_coding | 11 | 11 | 12 | 12 | 0.949 |
| 4124 | NM_002372,XM_01 | **MAN2A1** | mannosidase alpha clas | protein_coding | 24 | 20 | 25 | 21 | 0.833 |
| 4125 | NM_000528,NM_00 | **MAN2B1** | mannosidase alpha clas | protein_coding | 30 | 28 | 31 | 29 | 0.908 |
| 4126 | NM_005908,XM_01 | **MANBA** | mannosidase beta | protein_coding | 5 | 4 | 6 | 5 | 0.885 |
| 4128 | NM_000240,NM_00 | **MAOA** | monoamine oxidase A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4129 | NM_000898,XM_00 | **MAOB** | monoamine oxidase B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4130 | NM_002373 | **MAP1A** | microtubule associated p | protein_coding | 2 | 3 | 3 | 4 | 1.074 |
| 4131 | NM_001324255,NM | **MAP1B** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 4133 | NM_001039538,NM | **MAP2** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 4134 | NM_001134364,NM | **MAP4** | microtubule associated p | protein_coding | 55 | 54 | 56 | 55 | 0.999 |
| 4135 | NM_033063,NM_20 | **MAP6** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4137 | NM_001123066,NM | **MAPT** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4139 | NM_001286124,NM | **MARK1** | microtubule affinity regul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4140 | NM_001128918,NM | **MARK3** | microtubule affinity regul | protein_coding | 51 | 44 | 52 | 45 | 0.876 |
| 4141 | NM_004990,XM_00 | **MARS1** | methionyl-tRNA syntheta | protein_coding | 168 | 154 | 169 | 155 | 0.917 |
| 4142 | NM_001366704,NM | **MAS1** | MAS1 proto-oncogene, G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4143 | NM_000429 | **MAT1A** | methionine adenosyltran | protein_coding | 0 | 0 | 1 | 1 | 0.930 |
| 4144 | NM_005911 | **MAT2A** | methionine adenosyltran | protein_coding | 408 | 422 | 409 | 423 | 1.035 |
| 4145 | NM_002378,NM_13 | **MATK** | megakaryocyte-associate | protein_coding | 82 | 89 | 83 | 90 | 1.090 |
| 4146 | NM_002379 | **MATN1** | matrilin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 4147 | NM_001317748,NM | **MATN2** | matrilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4148 | NM_002381 | **MATN3** | matrilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4149 | NM_001271068,NM | **MAX** | MYC associated factor X | protein_coding | 87 | 86 | 88 | 87 | 0.985 |
| 4150 | NM_001042539,NM | **MAZ** | MYC associated zinc fing | protein_coding | 347 | 388 | 348 | 389 | 1.120 |
| 4151 | NM_001362846,NM | **MB** | myoglobin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4152 | NM_001204136,NM | **MBD1** | methyl-CpG binding dor | protein_coding | 71 | 62 | 72 | 63 | 0.873 |
| 4153 | NM_000242,NM_00 | **MBL2** | mannose binding lectin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4154 | NM_001314057,NM | **MBNL1** | muscleblind like splicing | protein_coding | 128 | 109 | 129 | 110 | 0.851 |
| 4155 | NM_001025081,NM | **MBP** | myelin basic protein | protein_coding | 68 | 68 | 69 | 69 | 1.003 |
| 4157 | NM_002386 | **MC1R** | melanocortin 1 receptor | protein_coding | 2 | 3 | 3 | 4 | 1.355 |
| 4158 | NM_000529,NM_00 | **MC2R** | melanocortin 2 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4159 | NM_019888 | **MC3R** | melanocortin 3 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4160 | NM_005912 | **MC4R** | melanocortin 4 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4161 | NM_005913 | **MC5R** | melanocortin 5 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4162 | NM_006500,XM_01 | **MCAM** | melanoma cell adhesion | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4163 | NM_001085377,NM | **MCC** | MCC regulator of WNT s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4166 | NM_021615,NR_16 | **CHST6** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4168 | NM_001099855,NM | **MCF2** | MCF.2 cell line derived t | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 4170 | NM_001197320,NM | **MCL1** | MCL1 apoptosis regulat | protein_coding | 203 | 194 | 204 | 195 | 0.955 |
| 4171 | NM_004526,NR_07 | **MCM2** | minichromosome mainte | protein_coding | 357 | 377 | 358 | 378 | 1.059 |
| 4172 | NM_001270472,NM | **MCM3** | minichromosome mainte | protein_coding | 478 | 469 | 479 | 470 | 0.983 |
| 4173 | NM_005914,NM_18 | **MCM4** | minichromosome mainte | protein_coding | 391 | 372 | 392 | 373 | 0.951 |
| 4174 | NM_006739,XM_00 | **MCM5** | minichromosome mainte | protein_coding | 168 | 178 | 169 | 179 | 1.056 |
| 4175 | NM_005915 | **MCM6** | minichromosome mainte | protein_coding | 197 | 190 | 198 | 191 | 0.966 |
| 4176 | NM_001278595,NM | **MCM7** | minichromosome mainte | protein_coding | 661 | 678 | 662 | 679 | 1.026 |
| 4179 | NM_002389,NM_15 | **CD46** | CD46 molecule | protein_coding | 52 | 43 | 53 | 44 | 0.830 |
| 4182 | gene-CD46P1 | **CD46P1** | CD46 molecule pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4184 | NM_030663 | **SMCP** | sperm mitochondria asso | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4185 | NM_001318933,NM | **ADAM11** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 4188 | NM_001300804,NM | **MDFI** | MyoD family inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4189 | NM_012328 | **DNAJB9** | DnaJ heat shock protein | protein_coding | 19 | 15 | 20 | 16 | 0.825 |
| 4190 | NM_001199111,NM | **MDH1** | malate dehydrogenase 1 | protein_coding | 261 | 251 | 262 | 252 | 0.961 |
| 4191 | NM_001282403,NM | **MDH2** | malate dehydrogenase 2 | protein_coding | 330 | 332 | 331 | 333 | 1.007 |
| 4192 | NM_001012333,NM | **MDK** | midkine | protein_coding | 3 | 6 | 4 | 7 | 1.466 |
| 4193 | NM_001145337,NM | **MDM2** | MDM2 proto-oncogene | protein_coding | 38 | 33 | 39 | 34 | 0.852 |
| 4194 | NM_001204171,NM | **MDM4** | MDM4 regulator of p53 | protein_coding | 6 | 5 | 7 | 6 | 0.835 |
| 4199 | NM_002395,XM_01 | **ME1** | malic enzyme 1 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 4200 | NM_001168335,NM | **ME2** | malic enzyme 2 | protein_coding | 56 | 55 | 57 | 56 | 0.980 |
| 4201 | NM_001318942,NM | **MEA1** | male-enhanced antigen | protein_coding | 204 | 236 | 205 | 237 | 1.154 |
| 4204 | NM_001110792,NM | **MECP2** | methyl-CpG binding prot | protein_coding | 21 | 20 | 22 | 21 | 0.941 |
| 4205 | NM_001130926,NM | **MEF2A** | myocyte enhancer factor | protein_coding | 43 | 35 | 44 | 36 | 0.822 |
| 4206 | gene-MEF2AP1 | **MEF2AP1** | myocyte enhancer factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4207 | NM_005919,NR_02 | **BORCS8-MEF2B** | BORCS8-MEF2B readthr | protein_coding | 5 | 5 | 6 | 6 | 1.009 |
| 4208 | NM_001131005,NM | **MEF2C** | myocyte enhancer factor | protein_coding | 1 | 1 | 2 | 2 | 0.788 |
| 4209 | NM_001271629,NM | **MEF2D** | myocyte enhancer factor | protein_coding | 48 | 51 | 49 | 52 | 1.067 |
| 4210 | NM_000243,NM_00 | **MEFV** | MEFV innate immuity re | protein_coding | 1 | 0 | 2 | 1 | 0.927 |
| 4211 | NM_002398 | **MEIS1** | Meis homeobox 1 | protein_coding | 1 | 2 | 2 | 3 | 1.133 |
| 4212 | NM_001220482,NM | **MEIS2** | Meis homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4213 | NR_002211 | **MEIS3P1** | Meis homeobox 3 pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 4214 | NM_005921,XM_01 | **MAP3K1** | mitogen-activated protei | protein_coding | 16 | 15 | 17 | 16 | 0.961 |
| 4215 | NM_001330431,NM | **MAP3K3** | mitogen-activated protei | protein_coding | 17 | 18 | 18 | 19 | 1.070 |
| 4216 | NM_001291958,NM | **MAP3K4** | mitogen-activated protei | protein_coding | 16 | 14 | 17 | 15 | 0.903 |
| 4217 | NM_005923,XM_01 | **MAP3K5** | mitogen-activated protei | protein_coding | 6 | 7 | 7 | 8 | 1.050 |
| 4218 | NM_005370 | **RAB8A** | RAB8A, member RAS on | protein_coding | 222 | 219 | 223 | 220 | 0.987 |
| 4221 | NM_000244,NM_00 | **MEN1** | menin 1 | protein_coding | 38 | 40 | 39 | 41 | 1.063 |
| 4222 | NM_001040002,NM | **MEOX1** | mesenchyme homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4223 | NM_005924 | **MEOX2** | mesenchyme homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4224 | NM_005588,XM_01 | **MEP1A** | meprin A subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4225 | NM_001308171,NM | **MEP1B** | meprin A subunit beta | protein_coding | 0 | 0 | 1 | 1 | 1.069 |
| 4232 | NM_001253900,NM | **MEST** | mesoderm specific trans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4233 | NM_000245,NM_00 | **MET** | MET proto-oncogene, re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4234 | NM_005371,NM_02 | **METTL1** | methyltransferase like 1 | protein_coding | 28 | 28 | 29 | 29 | 1.007 |
| 4236 | NM_005926 | **MFAP1** | microfibril associated pro | protein_coding | 142 | 139 | 143 | 140 | 0.979 |
| 4237 | NM_001135247,NM | **MFAP2** | microfibril associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4238 | NM_001135037,NM | **MFAP3** | microfibril associated pro | protein_coding | 36 | 29 | 37 | 30 | 0.814 |
| 4239 | NM_001198695,NM | **MFAP4** | microfibril associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4240 | NM_001114614,NM | **MFGE8** | milk fat globule EGF and | protein_coding | 3 | 3 | 4 | 4 | 1.139 |
| 4241 | NM_005929,NM_03 | **MELTF** | melanotransferrin | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 4242 | NM_001166343,NM | **MFNG** | MFNG O-fucosylpeptide | protein_coding | 165 | 159 | 166 | 160 | 0.963 |
| 4245 | NM_001114617,NM | **MGAT1** | alpha-1,3-mannosyl-glyc | protein_coding | 91 | 87 | 92 | 88 | 0.956 |
| 4246 | NM_002407 | **SCGB2A1** | secretoglobin family 2A r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4247 | NM_002408 | **MGAT2** | alpha-1,6-mannosyl-glyc | protein_coding | 97 | 93 | 98 | 94 | 0.954 |
| 4248 | NM_001098270,NM | **MGAT3** | beta-1,4-mannosyl-glyco | protein_coding | 0 | 0 | 1 | 1 | 0.930 |
| 4249 | NM_001371457,NM | **MGAT5** | alpha-1,6-mannosylglyco | protein_coding | 15 | 12 | 16 | 13 | 0.815 |
| 4250 | NM_002411,XM_00 | **SCGB2A2** | secretoglobin family 2A r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4253 | NM_001247988,NM | **MIA2** | MIA SH3 domain ER exp | protein_coding | 29 | 24 | 30 | 25 | 0.837 |
| 4254 | NM_000899,NM_00 | **KITLG** | KIT ligand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4255 | NM_002412,XM_00 | **MGMT** | O-6-methylguanine-DNA | protein_coding | 1 | 2 | 2 | 3 | 1.325 |
| 4256 | NM_000900,NM_00 | **MGP** | matrix Gla protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4257 | NM_001260511,NM | **MGST1** | microsomal glutathione S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4258 | NM_001204366,NM | **MGST2** | microsomal glutathione S | protein_coding | 0 | 0 | 1 | 1 | 1.193 |
| 4259 | NM_004528,XM_00 | **MGST3** | microsomal glutathione S | protein_coding | 16 | 18 | 17 | 19 | 1.161 |
| 4261 | NM_000246,NM_00 | **CIITA** | class II major histocompa | protein_coding | 22 | 22 | 23 | 23 | 0.979 |
| 4267 | NM_001122898,NM | **CD99** | CD99 molecule (Xg bloo | protein_coding | 69 | 70 | 70 | 71 | 1.011 |
| 4277 | NM_001289160,NM | **MICB** | MHC class I polypeptide- | protein_coding | 84 | 78 | 85 | 79 | 0.928 |
| 4280 | gene-MICE | **MICE** | MHC class I polypeptide- | pseudogene | 1 | 2 | 2 | 3 | 1.400 |
| 4281 | NM_000381,NM_00 | **MID1** | midline 1 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 4282 | NM_002415 | **MIF** | macrophage migration in | protein_coding | 1,088 | 1,254 | 1,089 | 1,255 | 1.153 |
| 4283 | NM_002416 | **CXCL9** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 4284 | NM_012064,XM_01 | **MIP** | major intrinsic protein of | protein_coding | 1 | 1 | 2 | 2 | 1.187 |
| 4285 | NM_005932,XM_01 | **MIPEP** | mitochondrial intermedia | protein_coding | 19 | 16 | 20 | 17 | 0.839 |
| 4286 | NM_000248,NM_00 | **MITF** | melanocyte inducing trar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4287 | NM_001127696,NM | **ATXN3** | ataxin 3 | protein_coding | 5 | 5 | 6 | 6 | 1.052 |
| 4288 | NM_001145966,NM | **MKI67** | marker of proliferation Ki | protein_coding | 158 | 128 | 159 | 129 | 0.809 |
| 4289 | NM_001145354,NM | **MKLN1** | muskelin 1 | protein_coding | 17 | 13 | 18 | 14 | 0.779 |
| 4291 | NM_001130156,NM | **MLF1** | myeloid leukemia factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4292 | NM_000249,NM_00 | **MLH1** | mutL homolog 1 | protein_coding | 50 | 53 | 51 | 54 | 1.066 |
| 4293 | NM_001284230,NM | **MAP3K9** | mitogen-activated protei | protein_coding | 1 | 1 | 2 | 2 | 0.883 |
| 4294 | NM_002446,XM_00 | **MAP3K10** | mitogen-activated protei | protein_coding | 12 | 12 | 13 | 13 | 0.989 |
| 4295 | NM_001040109,NM | **MLN** | motilin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4296 | NM_002419,XR_42 | **MAP3K11** | mitogen-activated protei | protein_coding | 50 | 52 | 51 | 53 | 1.036 |
| 4297 | NM_001197104,NM | **KMT2A** | lysine methyltransferase | protein_coding | 27 | 22 | 28 | 23 | 0.819 |
| 4298 | NM_005934,XM_01 | **MLLT1** | MLLT1 super elongation | protein_coding | 57 | 60 | 58 | 61 | 1.052 |
| 4299 | NM_001166693,NM | **AFF1** | AF4/FMR2 family membe | protein_coding | 5 | 4 | 6 | 5 | 0.847 |
| 4300 | NM_001286691,NM | **MLLT3** | MLLT3 super elongation | protein_coding | 18 | 16 | 19 | 17 | 0.924 |
| 4301 | NM_001040000,NM | **AFDN** | afadin, adherens junctio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4302 | NM_005937 | **MLLT6** | MLLT6, PHD finger conta | protein_coding | 221 | 203 | 222 | 204 | 0.919 |
| 4303 | NM_001170931,NM | **FOXO4** | forkhead box O4 | protein_coding | 6 | 6 | 7 | 7 | 1.006 |
| 4306 | NM_000901,NM_00 | **NR3C2** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4308 | NM_001252020,NM | **TRPM1** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 4311 | NM_000902,NM_00 | **MME** | membrane metalloendop | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4312 | NM_001145938,NM | **MMP1** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4313 | NM_001127891,NM | **MMP2** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4314 | NM_002422 | **MMP3** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4316 | NM_002423 | **MMP7** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4317 | NM_001304441,NM | **MMP8** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4318 | NM_004994 | **MMP9** | matrix metallopeptidase | protein_coding | 1 | 0 | 2 | 1 | 0.820 |
| 4319 | NM_002425 | **MMP10** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4320 | NM_005940,NR_13 | **MMP11** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4321 | NM_002426 | **MMP12** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4322 | NM_002427 | **MMP13** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4323 | NM_004995 | **MMP14** | matrix metallopeptidase | protein_coding | 1 | 1 | 2 | 2 | 1.010 |
| 4324 | NM_002428 | **MMP15** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4325 | NM_005941,XM_02 | **MMP16** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4326 | NM_016155,XM_01 | **MMP17** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4327 | NM_001272101,NM | **MMP19** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4329 | NM_001278593,NM | **ALDH6A1** | aldehyde dehydrogenas | protein_coding | 1 | 1 | 2 | 2 | 1.046 |
| 4330 | NM_002430 | **MN1** | MN1 proto-oncogene, tra | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 4331 | NM_001177963,NM | **MNAT1** | MNAT1 component of CI | protein_coding | 27 | 27 | 28 | 28 | 1.002 |
| 4332 | NM_002432 | **MNDA** | myeloid cell nuclear diffe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4335 | NM_020310,XM_01 | **MNT** | MAX network transcriptio | protein_coding | 5 | 6 | 6 | 7 | 1.070 |

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|---|---|---|---|---|---|---|---|---|---|
| 4336 | NM_001278322,NM | **MOBP** | myelin associated oligod | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 4337 | NM_001075098,NM | **MOCS1** | molybdenum cofactor sy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4338 | NM_004531,NM_17 | **MOCS2** | molybdenum cofactor sy | protein_coding | 34 | 33 | 35 | 34 | 0.953 |
| 4340 | NM_001008228,NM | **MOG** | myelin oligodendrocyte g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4342 | NM_005372 | **MOS** | MOS proto-oncogene, se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4343 | NM_001130079,NM | **MOV10** | Mov10 RISC complex RN | protein_coding | 51 | 51 | 52 | 52 | 0.999 |
| 4345 | NM_001004196,NM | **CD200** | CD200 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4350 | NM_001015052,NM | **MPG** | N-methylpurine DNA gly | protein_coding | 58 | 64 | 59 | 65 | 1.102 |
| 4351 | NM_001289155,NM | **MPI** | mannose phosphate isor | protein_coding | 17 | 18 | 18 | 19 | 1.047 |
| 4352 | NM_005373,XM_01 | **MPL** | MPL proto-oncogene, thr | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 4353 | NM_000250 | **MPO** | myeloperoxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4354 | NM_001166460,NM | **MPP1** | membrane palmitoylated | protein_coding | 9 | 10 | 10 | 11 | 1.086 |
| 4355 | NM_001278370,NM | **MPP2** | membrane palmitoylated | protein_coding | 1 | 1 | 2 | 2 | 0.935 |
| 4356 | NM_001330233,NM | **MPP3** | membrane palmitoylated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4357 | NM_001013436,NM | **MPST** | mercaptopyruvate sulfurt | protein_coding | 38 | 40 | 39 | 41 | 1.075 |
| 4358 | NM_002437,XM_00 | **MPV17** | mitochondrial inner mem | protein_coding | 39 | 38 | 40 | 39 | 0.974 |
| 4359 | NM_000530,NM_00 | **MPZ** | myelin protein zero | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 4360 | NM_002438 | **MRC1** | mannose receptor C-type | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 4361 | NM_001330347,NM | **MRE11** | MRE11 homolog, double | protein_coding | 27 | 24 | 28 | 25 | 0.895 |
| 4362 | gene-MRE11P1 | **MRE11P1** | MRE11 homolog, double | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4363 | NM_004996,XM_01 | **ABCC1** | ATP binding cassette sul | protein_coding | 14 | 12 | 15 | 13 | 0.899 |
| 4430 | NM_001130158,NM | **MYO1B** | myosin IB | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4435 | NM_001144885,NM | **CITED1** | Cbp/p300 interacting tra | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 4436 | NM_000251,NM_00 | **MSH2** | mutS homolog 2 | protein_coding | 93 | 86 | 94 | 87 | 0.922 |
| 4437 | NM_002439 | **MSH3** | mutS homolog 3 | protein_coding | 12 | 12 | 13 | 13 | 0.957 |
| 4438 | NM_002440 | **MSH4** | mutS homolog 4 | protein_coding | 0 | 0 | 1 | 1 | 1.127 |
| 4439 | NM_002441,NM_02 | **MSH5** | mutS homolog 5 | protein_coding | 3 | 3 | 4 | 4 | 0.915 |
| 4440 | NM_002442,XM_00 | **MSI1** | musashi RNA binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4477 | NM_002443,NM_13 | **MSMB** | microseminoprotein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4478 | NM_002444,XM_00 | **MSN** | moesin | protein_coding | 914 | 896 | 915 | 897 | 0.981 |
| 4479 | gene-MSNP1 | **MSNP1** | moesin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.082 |
| 4481 | NM_001363744,NM | **MSR1** | macrophage scavenger r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4482 | NM_001135670,NM | **MSRA** | methionine sulfoxide red | protein_coding | 1 | 1 | 2 | 2 | 1.246 |
| 4485 | NM_020998,NR_14 | **MST1** | macrophage stimulating | protein_coding | 1 | 1 | 2 | 2 | 1.004 |
| 4486 | NM_001244937,NM | **MST1R** | macrophage stimulating | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 4487 | NM_002448 | **MSX1** | msh homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 0.840 |
| 4488 | NM_001363626,NM | **MSX2** | msh homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4489 | NM_005946 | **MT1A** | metallothionein 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4490 | NM_005947 | **MT1B** | metallothionein 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4493 | NM_001363555,NM | **MT1E** | metallothionein 1E | protein_coding | 103 | 145 | 104 | 146 | 1.413 |
| 4494 | NM_001301272,NM | **MT1F** | metallothionein 1F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4495 | NM_001301267,NM | **MT1G** | metallothionein 1G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4496 | NM_005951 | **MT1H** | metallothionein 1H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4498 | NR_036677 | **MT1JP** | metallothionein 1J, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 4499 | NM_176870 | **MT1M** | metallothionein 1M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4500 | NR_001447 | **MT1L** | metallothionein 1L, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 4501 | NM_005952 | **MT1X** | metallothionein 1X | protein_coding | 170 | 235 | 171 | 236 | 1.381 |
| 4502 | NM_005953 | **MT2A** | metallothionein 2A | protein_coding | 295 | 399 | 296 | 400 | 1.351 |
| 4503 | gene-MT2P1 | **MT2P1** | metallothionein 2 pseudo | pseudogene | 0 | 1 | 1 | 2 | 1.512 |
| 4504 | NM_005954 | **MT3** | metallothionein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4507 | NM_002451 | **MTAP** | methylthioadenosine pho | protein_coding | 29 | 25 | 30 | 26 | 0.882 |
| 4508 | gene-ATP6 | **ATP6** | ATP synthase F0 subuni | protein_coding | 2,267 | 2,286 | 2,268 | 2,287 | 1.008 |
| 4509 | gene-ATP8 | **ATP8** | ATP synthase F0 subuni | protein_coding | 3,373 | 3,132 | 3,374 | 3,133 | 0.929 |
| 4511 | rna-TRNC | **TRNC** | tRNA-Cys | tRNA | 32 | 35 | 33 | 36 | 1.083 |
| 4512 | gene-COX1 | **COX1** | cytochrome c oxidase su | protein_coding | 2,646 | 2,961 | 2,647 | 2,962 | 1.119 |
| 4513 | gene-COX2 | **COX2** | cytochrome c oxidase su | protein_coding | 2,030 | 2,270 | 2,031 | 2,271 | 1.118 |
| 4514 | gene-COX3 | **COX3** | cytochrome c oxidase su | protein_coding | 3,239 | 3,487 | 3,240 | 3,488 | 1.077 |
| 4515 | NM_001018025 | **MTCP1** | mature T cell proliferatio | protein_coding | 3 | 4 | 4 | 5 | 1.156 |
| 4519 | gene-CYTB | **CYTB** | cytochrome b | protein_coding | 842 | 899 | 843 | 900 | 1.067 |
| 4520 | NM_005955,XM_01 | **MTF1** | metal regulatory transcri | protein_coding | 20 | 18 | 21 | 19 | 0.892 |
| 4521 | NM_001367553,NM | **NUDT1** | nudix hydrolase 1 | protein_coding | 50 | 59 | 51 | 60 | 1.164 |
| 4522 | NM_001364837,NM | **MTHFD1** | methylenetetrahydrofola | protein_coding | 235 | 225 | 236 | 226 | 0.955 |
| 4523 | gene-MTHFD1P1 | **MTHFD1P1** | methylenetetrahydrofola | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 4524 | NM_001330358,NM | **MTHFR** | methylenetetrahydrofola | protein_coding | 11 | 11 | 12 | 12 | 1.011 |
| 4528 | NM_001005369,NM | **MTIF2** | mitochondrial translation | protein_coding | 51 | 50 | 52 | 51 | 0.984 |
| 4534 | NM_000252,NM_00 | **MTM1** | myotubularin 1 | protein_coding | 13 | 13 | 14 | 14 | 1.011 |
| 4535 | gene-ND1 | **ND1** | NADH dehydrogenase su | protein_coding | 953 | 1,049 | 954 | 1,050 | 1.101 |
| 4536 | gene-ND2 | **ND2** | NADH dehydrogenase su | protein_coding | 1,311 | 1,306 | 1,312 | 1,307 | 0.997 |
| 4537 | gene-ND3 | **ND3** | NADH dehydrogenase su | protein_coding | 1,025 | 1,089 | 1,026 | 1,090 | 1.062 |
| 4538 | gene-ND4 | **ND4** | NADH dehydrogenase su | protein_coding | 1,979 | 2,179 | 1,980 | 2,180 | 1.101 |
| 4539 | gene-ND4L | **ND4L** | NADH dehydrogenase su | protein_coding | 2,812 | 2,829 | 2,813 | 2,830 | 1.006 |
| 4540 | gene-ND5 | **ND5** | NADH dehydrogenase su | protein_coding | 468 | 468 | 469 | 469 | 1.001 |
| 4541 | gene-ND6 | **ND6** | NADH dehydrogenase su | protein_coding | 628 | 555 | 629 | 556 | 0.885 |
| 4542 | NM_001348355,NM | **MYO1F** | myosin IF | protein_coding | 132 | 139 | 133 | 140 | 1.058 |
| 4543 | NM_005958,XM_01 | **MTNR1A** | melatonin receptor 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4544 | NM_005959,XM_01 | **MTNR1B** | melatonin receptor 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4547 | NM_000253,NM_00 | **MTTP** | microsomal triglyceride t | protein_coding | 1 | 1 | 2 | 2 | 1.036 |
| 4548 | NM_000254,NM_00 | **MTR** | 5-methyltetrahydrofolate | protein_coding | 19 | 17 | 20 | 18 | 0.930 |
| 4549 | rna-RNR1 | **RNR1** | s-rRNA | rRNA | 212 | 212 | 213 | 213 | 1.000 |
| 4550 | rna-RNR2 | **RNR2** | l-rRNA | rRNA | 463 | 485 | 464 | 486 | 1.049 |
| 4552 | NM_001364440,NM | **MTRR** | 5-methyltetrahydrofolate | protein_coding | 40 | 37 | 41 | 38 | 0.912 |
| 4553 | rna-TRNA | **TRNA** | tRNA-Ala | tRNA | 22 | 22 | 23 | 23 | 1.007 |
| 4555 | rna-TRND | **TRND** | tRNA-Asp | tRNA | 25 | 26 | 26 | 27 | 1.014 |
| 4556 | rna-TRNE | **TRNE** | tRNA-Glu | tRNA | 145 | 141 | 146 | 142 | 0.973 |
| 4558 | rna-TRNF | **TRNF** | tRNA-Phe | tRNA | 70 | 77 | 71 | 78 | 1.100 |
| 4563 | rna-TRNG | **TRNG** | tRNA-Gly | tRNA | 1 | 3 | 2 | 4 | 1.617 |
| 4564 | rna-TRNH | **TRNH** | tRNA-His | tRNA | 6 | 2 | 7 | 3 | 0.437 |
| 4565 | rna-TRNI | **TRNI** | tRNA-Ile | tRNA | 39 | 51 | 40 | 52 | 1.313 |
| 4566 | rna-TRNK | **TRNK** | tRNA-Lys | tRNA | 14 | 7 | 15 | 8 | 0.534 |
| 4567 | rna-TRNL1 | **TRNL1** | tRNA-Leu | tRNA | 218 | 202 | 219 | 203 | 0.925 |
| 4568 | rna-TRNL2 | **TRNL2** | tRNA-Leu | tRNA | 1 | 2 | 2 | 3 | 1.246 |
| 4569 | rna-TRNM | **TRNM** | tRNA-Met | tRNA | 46 | 48 | 47 | 49 | 1.040 |
| 4570 | rna-TRNN | **TRNN** | tRNA-Asn | tRNA | 11 | 13 | 12 | 14 | 1.248 |
| 4571 | rna-TRNP | **TRNP** | tRNA-Pro | tRNA | 26 | 22 | 27 | 23 | 0.879 |
| 4572 | rna-TRNQ | **TRNQ** | tRNA-Gln | tRNA | 44 | 58 | 45 | 59 | 1.314 |
| 4573 | rna-TRNR | **TRNR** | tRNA-Arg | tRNA | 2 | 2 | 3 | 3 | 0.896 |
| 4574 | rna-TRNS1 | **TRNS1** | tRNA-Ser | tRNA | 302 | 303 | 303 | 304 | 1.002 |
| 4575 | rna-TRNS2 | **TRNS2** | tRNA-Ser | tRNA | 4 | 2 | 5 | 3 | 0.629 |
| 4576 | rna-TRNT | **TRNT** | tRNA-Thr | tRNA | 29 | 21 | 30 | 22 | 0.733 |
| 4577 | rna-TRNV | **TRNV** | tRNA-Val | tRNA | 33 | 33 | 34 | 34 | 0.998 |
| 4578 | rna-TRNW | **TRNW** | tRNA-Trp | tRNA | 19 | 20 | 20 | 21 | 1.037 |
| 4579 | rna-TRNY | **TRNY** | tRNA-Tyr | tRNA | 358 | 340 | 359 | 341 | 0.949 |
| 4580 | NM_002455,NM_19 | **MTX1** | metaxin 1 | protein_coding | 60 | 58 | 61 | 59 | 0.980 |
| 4582 | NM_001018016,NM | **MUC1** | mucin 1, cell surface ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4583 | NM_002457 | **MUC2** | mucin 2, oligomeric muc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4584 | NM_005960 | **MUC3A** | mucin 3A, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4585 | NM_004532,NM_01 | **MUC4** | mucin 4, cell surface ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4586 | NM_001304359 | **MUC5AC** | mucin 5AC, oligomeric m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4588 | NM_005961 | **MUC6** | mucin 6, oligomeric muc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4589 | NM_001145006,NM | **MUC7** | mucin 7, secreted | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4591 | NM_001005207,NM | **TRIM37** | tripartite motif containing | protein_coding | 33 | 30 | 34 | 31 | 0.910 |
| 4593 | NM_001166280,NM | **MUSK** | muscle associated recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4594 | NM_000255,XM_00 | **MMUT** | methylmalonyl-CoA muta | protein_coding | 20 | 20 | 21 | 21 | 0.992 |
| 4595 | NM_001048171,NM | **MUTYH** | mutY DNA glycosylase | protein_coding | 38 | 47 | 39 | 48 | 1.232 |
| 4597 | NM_002461,XM_01 | **MVD** | mevalonate diphosphate | protein_coding | 52 | 53 | 53 | 54 | 1.018 |
| 4598 | NM_000431,NM_00 | **MVK** | mevalonate kinase | protein_coding | 18 | 16 | 19 | 17 | 0.883 |
| 4599 | NM_001144925,NM | **MX1** | MX dynamin like GTPase | protein_coding | 236 | 198 | 237 | 199 | 0.837 |
| 4600 | NM_002463,XM_00 | **MX2** | MX dynamin like GTPase | protein_coding | 2 | 2 | 3 | 3 | 0.868 |
| 4601 | NM_001008541,NM | **MXI1** | MAX interactor 1, dimeriz | protein_coding | 8 | 9 | 9 | 10 | 1.151 |
| 4602 | NM_001130172,NM | **MYB** | MYB proto-oncogene, tra | protein_coding | 6 | 7 | 7 | 8 | 1.091 |
| 4603 | NM_001080416,NM | **MYBL1** | MYB proto-oncogene like | protein_coding | 48 | 45 | 49 | 46 | 0.941 |
| 4604 | NM_001254718,NM | **MYBPC1** | myosin binding protein C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4605 | NM_001278610,NM | **MYBL2** | MYB proto-oncogene like | protein_coding | 184 | 189 | 185 | 190 | 1.027 |
| 4606 | NM_004533 | **MYBPC2** | myosin binding protein C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4607 | NM_000256 | **MYBPC3** | myosin binding protein C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4608 | NM_004997 | **MYBPH** | myosin binding protein H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4609 | NM_001354870,NM | **MYC** | MYC proto-oncogene, bl | protein_coding | 178 | 194 | 179 | 195 | 1.090 |
| 4610 | NM_001033081,NM | **MYCL** | MYCL proto-oncogene, b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4611 | gene-MYCLP1 | **MYCLP1** | MYCL pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4613 | NM_001293228,NM | **MYCN** | MYCN proto-oncogene, l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4615 | NM_001172566,NM | **MYD88** | MYD88 innate immune s | protein_coding | 98 | 96 | 99 | 97 | 0.987 |
| 4616 | NM_015675,XM_01 | **GADD45B** | growth arrest and DNA d | protein_coding | 128 | 147 | 129 | 148 | 1.152 |
| 4617 | NM_005593 | **MYF5** | myogenic factor 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4618 | NM_002469 | **MYF6** | myogenic factor 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4619 | NM_005963,XM_01 | **MYH1** | myosin heavy chain 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4620 | NM_001100112,NM | **MYH2** | myosin heavy chain 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4621 | NM_002470,XM_01 | **MYH3** | myosin heavy chain 3 | protein_coding | 1 | 1 | 2 | 2 | 1.158 |
| 4622 | NM_017533,XM_01 | **MYH4** | myosin heavy chain 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4624 | NM_002471 | **MYH6** | myosin heavy chain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4625 | NM_000257,XM_01 | **MYH7** | myosin heavy chain 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4626 | NM_002472 | **MYH8** | myosin heavy chain 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4627 | NM_002473 | **MYH9** | myosin heavy chain 9 | protein_coding | 338 | 335 | 339 | 336 | 0.990 |
| 4628 | NM_001256012,NM | **MYH10** | myosin heavy chain 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4629 | NM_001040113,NM | **MYH11** | myosin heavy chain 11 | protein_coding | 0 | 0 | 1 | 1 | 0.930 |
| 4632 | NM_079420,NM_07 | **MYL1** | myosin light chain 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4633 | NM_000432 | **MYL2** | myosin light chain 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4634 | NM_000258 | **MYL3** | myosin light chain 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4635 | NM_001002841,NM | **MYL4** | myosin light chain 4 | protein_coding | 0 | 1 | 1 | 2 | 1.697 |
| 4636 | NM_001363650,NM | **MYL5** | myosin light chain 5 | protein_coding | 4 | 5 | 5 | 6 | 1.194 |
| 4637 | NM_021019,NM_07 | **MYL6** | myosin light chain 6 | protein_coding | 798 | 871 | 799 | 872 | 1.091 |
| 4638 | NM_001321309,NM | **MYLK** | myosin light chain kinase | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 4640 | NM_001256041,NM | **MYO1A** | myosin IA | protein_coding | 0 | 0 | 1 | 1 | 1.073 |
| 4641 | NM_001080779,NM | **MYO1C** | myosin IC | protein_coding | 2 | 2 | 3 | 3 | 1.037 |
| 4642 | NM_001303279,NM | **MYO1D** | myosin ID | protein_coding | 7 | 5 | 8 | 6 | 0.839 |
| 4643 | NM_004998 | **MYO1E** | myosin IE | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 4644 | NM_000259,NM_00 | **MYO5A** | myosin VA | protein_coding | 13 | 11 | 14 | 12 | 0.844 |
| 4645 | NM_001080467 | **MYO5B** | myosin VB | protein_coding | 6 | 2 | 7 | 3 | 0.491 |
| 4646 | NM_001300899,NM | **MYO6** | myosin VI | protein_coding | 13 | 11 | 14 | 12 | 0.816 |
| 4647 | NM_000260,NM_00 | **MYO7A** | myosin VIIA | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4648 | NM_001080527,XM | **MYO7B** | myosin VIIB | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4649 | NM_006901,XM_00 | **MYO9A** | myosin IXA | protein_coding | 5 | 4 | 6 | 5 | 0.791 |
| 4650 | NM_001130065,NM | **MYO9B** | myosin IXB | protein_coding | 64 | 58 | 65 | 59 | 0.900 |
| 4651 | NM_012334,XM_00 | **MYO10** | myosin X | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4653 | NM_000261 | **MYOC** | myocilin | protein_coding | 0 | 0 | 1 | 1 | 1.213 |
| 4654 | NM_002478 | **MYOD1** | myogenic differentiation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4656 | NM_002479 | **MYOG** | myogenin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4659 | NM_001143885,NM | **PPP1R12A** | protein phosphatase 1 re | protein_coding | 54 | 49 | 55 | 50 | 0.902 |
| 4660 | NM_001167857,NM | **PPP1R12B** | protein phosphatase 1 re | protein_coding | 4 | 4 | 5 | 5 | 0.946 |
| 4661 | NM_004535 | **MYT1** | myelin transcription factc | protein_coding | 1 | 1 | 2 | 2 | 1.145 |
| 4664 | NM_001321312,NM | **NAB1** | NGFI-A binding protein 1 | protein_coding | 25 | 21 | 26 | 22 | 0.822 |
| 4665 | NM_001330305,NM | **NAB2** | NGFI-A binding protein 2 | protein_coding | 8 | 9 | 9 | 10 | 1.075 |
| 4666 | NM_001113201,NM | **NACA** | nascent polypeptide ass | protein_coding | 1,400 | 1,366 | 1,401 | 1,367 | 0.976 |
| 4668 | NM_000262,NM_00 | **NAGA** | alpha-N-acetylgalactosar | protein_coding | 14 | 15 | 15 | 16 | 1.013 |
| 4669 | NM_000263,XM_00 | **NAGLU** | N-acetyl-alpha-glucosam | protein_coding | 14 | 14 | 15 | 15 | 0.993 |
| 4670 | NM_001297418,NM | **HNRNPM** | heterogeneous nuclear r | protein_coding | 535 | 544 | 536 | 545 | 1.017 |
| 4671 | NM_001346870,NM | **NAIP** | NLR family apoptosis inh | protein_coding | 1 | 1 | 2 | 2 | 1.032 |
| 4673 | NM_001307924,NM | **NAP1L1** | nucleosome assembly pı | protein_coding | 232 | 210 | 233 | 211 | 0.907 |
| 4674 | NM_021963 | **NAP1L2** | nucleosome assembly pı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4675 | NM_004538 | **NAP1L3** | nucleosome assembly pı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4676 | NM_001369375,NM | **NAP1L4** | nucleosome assembly pı | protein_coding | 219 | 226 | 220 | 227 | 1.032 |
| 4677 | NM_004539,XM_00 | **NARS1** | asparaginyl-tRNA synthe | protein_coding | 236 | 215 | 237 | 216 | 0.911 |
| 4678 | NM_001195193,NM | **NASP** | nuclear autoantigenic sp | protein_coding | 352 | 322 | 353 | 323 | 0.914 |
| 4680 | NM_002483,XM_01 | **CEACAM6** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4681 | NM_001204084,NM | **NBL1** | NBL1, DAN family BMP a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4682 | NM_001278506,NM | **NUBP1** | nucleotide binding protei | protein_coding | 73 | 74 | 74 | 75 | 1.004 |
| 4683 | NM_001024688,NM | **NBN** | nibrin | protein_coding | 69 | 62 | 70 | 63 | 0.897 |
| 4684 | NM_000615,NM_00 | **NCAM1** | neural cell adhesion mol | protein_coding | 89 | 82 | 90 | 83 | 0.914 |
| 4685 | NM_001352591,NM | **NCAM2** | neural cell adhesion mol | protein_coding | 1 | 1 | 2 | 2 | 1.090 |
| 4686 | NM_001351504,NM | **NCBP1** | nuclear cap binding prot | protein_coding | 60 | 54 | 61 | 55 | 0.908 |
| 4688 | NM_000433,NM_00 | **NCF2** | neutrophil cytosolic facto | protein_coding | 3 | 2 | 4 | 3 | 0.735 |
| 4689 | NM_000631,NM_01 | **NCF4** | neutrophil cytosolic facto | protein_coding | 13 | 13 | 14 | 14 | 1.059 |
| 4690 | NM_001190796,NM | **NCK1** | NCK adaptor protein 1 | protein_coding | 22 | 21 | 23 | 22 | 0.942 |
| 4691 | NM_005381 | **NCL** | nucleolin | protein_coding | 2,207 | 2,161 | 2,208 | 2,162 | 0.979 |
| 4692 | NM_002487 | **NDN** | necdin, MAGE family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4693 | NM_000266 | **NDP** | norrin cystine knot growt | protein_coding | 0 | 0 | 1 | 1 | 1.117 |
| 4694 | NM_004541 | **NDUFA1** | NADH:ubiquinone oxidor | protein_coding | 409 | 432 | 410 | 433 | 1.058 |
| 4695 | NM_001185012,NM | **NDUFA2** | NADH:ubiquinone oxidor | protein_coding | 209 | 211 | 210 | 212 | 1.012 |
| 4696 | NM_004542,XM_01 | **NDUFA3** | NADH:ubiquinone oxidor | protein_coding | 120 | 143 | 121 | 144 | 1.196 |
| 4697 | NM_002489 | **NDUFA4** | NDUFA4 mitochondrial c | protein_coding | 117 | 109 | 118 | 110 | 0.929 |
| 4698 | NM_001282419,NM | **NDUFA5** | NADH:ubiquinone oxidor | protein_coding | 49 | 43 | 50 | 44 | 0.894 |
| 4699 | gene-NDUFA5P1 | **NDUFA5P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4700 | NM_002490 | **NDUFA6** | NADH:ubiquinone oxidor | protein_coding | 104 | 102 | 105 | 103 | 0.987 |
| 4701 | NM_005001,NR_13 | **NDUFA7** | NADH:ubiquinone oxidor | protein_coding | 153 | 186 | 154 | 187 | 1.217 |
| 4702 | NM_001318195,NM | **NDUFA8** | NADH:ubiquinone oxidor | protein_coding | 107 | 118 | 108 | 119 | 1.102 |
| 4703 | NM_001164507,NM | **NEB** | nebulin | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 4704 | NM_005002 | **NDUFA9** | NADH:ubiquinone oxidor | protein_coding | 20 | 20 | 21 | 21 | 1.020 |
| 4705 | NM_001322019,NM | **NDUFA10** | NADH:ubiquinone oxidor | protein_coding | 64 | 67 | 65 | 68 | 1.042 |
| 4706 | NM_005003,XM_01 | **NDUFAB1** | NADH:ubiquinone oxidor | protein_coding | 420 | 434 | 421 | 435 | 1.032 |
| 4707 | NM_004545 | **NDUFB1** | NADH:ubiquinone oxidor | protein_coding | 262 | 245 | 263 | 246 | 0.934 |
| 4708 | NM_004546 | **NDUFB2** | NADH:ubiquinone oxidor | protein_coding | 214 | 217 | 215 | 218 | 1.012 |
| 4709 | NM_001257102,NM | **NDUFB3** | NADH:ubiquinone oxidor | protein_coding | 542 | 588 | 543 | 589 | 1.086 |
| 4710 | NM_001168331,NM | **NDUFB4** | NADH:ubiquinone oxidor | protein_coding | 293 | 294 | 294 | 295 | 1.004 |
| 4711 | NM_001199957,NM | **NDUFB5** | NADH:ubiquinone oxidor | protein_coding | 53 | 54 | 54 | 55 | 1.022 |
| 4712 | NM_001199987,NM | **NDUFB6** | NADH:ubiquinone oxidor | protein_coding | 80 | 78 | 81 | 79 | 0.977 |
| 4713 | NM_004146,XM_01 | **NDUFB7** | NADH:ubiquinone oxidor | protein_coding | 260 | 286 | 261 | 287 | 1.098 |
| 4714 | NM_001284367,NM | **NDUFB8** | NADH:ubiquinone oxidor | protein_coding | 461 | 480 | 462 | 481 | 1.041 |
| 4715 | NM_001278645,NM | **NDUFB9** | NADH:ubiquinone oxidor | protein_coding | 304 | 314 | 305 | 315 | 1.032 |
| 4716 | NM_004548 | **NDUFB10** | NADH:ubiquinone oxidor | protein_coding | 176 | 194 | 177 | 195 | 1.105 |
| 4717 | NM_001184986,NM | **NDUFC1** | NADH:ubiquinone oxidor | protein_coding | 60 | 57 | 61 | 58 | 0.967 |
| 4718 | NM_001204054,NM | **NDUFC2** | NADH:ubiquinone oxidor | protein_coding | 90 | 98 | 91 | 99 | 1.084 |
| 4719 | NM_001199981,NM | **NDUFS1** | NADH:ubiquinone oxidor | protein_coding | 46 | 43 | 47 | 44 | 0.924 |
| 4720 | NM_001166159,NM | **NDUFS2** | NADH:ubiquinone oxidor | protein_coding | 155 | 154 | 156 | 155 | 0.997 |
| 4722 | NM_004551 | **NDUFS3** | NADH:ubiquinone oxidor | protein_coding | 221 | 236 | 222 | 237 | 1.067 |
| 4723 | NM_001166102,NM | **NDUFV1** | NADH:ubiquinone oxidor | protein_coding | 267 | 275 | 268 | 276 | 1.030 |
| 4724 | NM_001318051,NM | **NDUFS4** | NADH:ubiquinone oxidor | protein_coding | 91 | 89 | 92 | 90 | 0.983 |
| 4725 | NM_001184979,NM | **NDUFS5** | NADH:ubiquinone oxidor | protein_coding | 503 | 550 | 504 | 551 | 1.094 |
| 4726 | NM_004553 | **NDUFS6** | NADH:ubiquinone oxidor | protein_coding | 463 | 487 | 464 | 488 | 1.051 |
| 4728 | NM_002496 | **NDUFS8** | NADH:ubiquinone oxidor | protein_coding | 233 | 255 | 234 | 256 | 1.093 |
| 4729 | NM_021074,XM_01 | **NDUFV2** | NADH:ubiquinone oxidor | protein_coding | 193 | 188 | 194 | 189 | 0.973 |
| 4730 | gene-NDUFV2P1 | **NDUFV2P1** | NADH:ubiquinone oxidor | pseudogene | 4 | 4 | 5 | 5 | 0.887 |
| 4731 | NM_001001503,NM | **NDUFV3** | NADH:ubiquinone oxidor | protein_coding | 12 | 14 | 13 | 15 | 1.122 |
| 4733 | NM_004147 | **DRG1** | developmentally regulate | protein_coding | 129 | 125 | 130 | 126 | 0.974 |
| 4734 | NM_001284338,NM | **NEDD4** | NEDD4 E3 ubiquitin prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4735 | NM_001008491,NM | **SEPTIN2** | septin 2 | protein_coding | 447 | 413 | 448 | 414 | 0.926 |
| 4736 | NM_007104,XM_01 | **RPL10A** | ribosomal protein L10a | protein_coding | 1,678 | 1,784 | 1,679 | 1,785 | 1.063 |
| 4738 | NM_006156 | **NEDD8** | NEDD8 ubiquitin like mo | protein_coding | 317 | 365 | 318 | 366 | 1.149 |
| 4739 | NM_001142393,NM | **NEDD9** | neural precursor cell exp | protein_coding | 96 | 97 | 97 | 98 | 1.013 |
| 4741 | NM_001105541,NM | **NEFM** | neurofilament medium | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4744 | NM_021076,XM_01 | **NEFH** | neurofilament heavy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4745 | NM_001288713,NM | **NELL1** | neural EGFL like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4747 | NM_006158 | **NEFL** | neurofilament light | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4750 | NM_001199397,NM | **NEK1** | NIMA related kinase 1 | protein_coding | 13 | 11 | 14 | 12 | 0.836 |
| 4751 | NM_001204182,NM | **NEK2** | NIMA related kinase 2 | protein_coding | 45 | 39 | 46 | 40 | 0.874 |
| 4752 | NM_002498,NM_15 | **NEK3** | NIMA related kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.091 |
| 4753 | NM_001145107,NM | **NELL2** | neural EGFL like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4756 | NM_001172623,NM | **NEO1** | neogenin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4758 | NM_000434 | **NEU1** | neuraminidase 1 | protein_coding | 33 | 36 | 34 | 37 | 1.086 |
| 4759 | NM_005383 | **NEU2** | neuraminidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4760 | NM_002500,NR_14 | **NEUROD1** | neuronal differentiation 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4761 | NM_006160 | **NEUROD2** | neuronal differentiation 2 | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 4762 | NM_006161 | **NEUROG1** | neurogenin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4763 | NM_000267,NM_00 | **NF1** | neurofibromin 1 | protein_coding | 18 | 14 | 19 | 15 | 0.785 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4764 | gene-NF1P3 | **NF1P3** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4768 | gene-NF1P5 | **NF1P5** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4771 | NM_000268,NM_01 | **NF2** | neurofibromin 2 | protein_coding | 30 | 28 | 31 | 29 | 0.940 |
| 4772 | NM_001278669,NM | **NFATC1** | nuclear factor of activate | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 4773 | NM_001136021,NM | **NFATC2** | nuclear factor of activate | protein_coding | 51 | 43 | 52 | 44 | 0.852 |
| 4774 | NM_001134673,NM | **NFIA** | nuclear factor I A | protein_coding | 0 | 1 | 1 | 2 | 1.155 |
| 4775 | NM_004555,NM_17 | **NFATC3** | nuclear factor of activate | protein_coding | 39 | 37 | 40 | 38 | 0.954 |
| 4776 | NM_001136022,NM | **NFATC4** | nuclear factor of activate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4778 | NM_001136023,NM | **NFE2** | nuclear factor, erythroid | protein_coding | 1 | 1 | 2 | 2 | 1.183 |
| 4779 | NM_001330261,NM | **NFE2L1** | nuclear factor, erythroid | protein_coding | 120 | 117 | 121 | 118 | 0.981 |
| 4780 | NM_001145412,NM | **NFE2L2** | nuclear factor, erythroid | protein_coding | 71 | 69 | 72 | 70 | 0.974 |
| 4781 | NM_001190737,NM | **NFIB** | nuclear factor I B | protein_coding | 1 | 1 | 2 | 2 | 1.119 |
| 4782 | NM_001245002,NM | **NFIC** | nuclear factor I C | protein_coding | 1 | 1 | 2 | 2 | 1.153 |
| 4783 | NM_001289999,NM | **NFIL3** | nuclear factor, interleukir | protein_coding | 49 | 47 | 50 | 48 | 0.953 |
| 4784 | NM_001271043,NM | **NFIX** | nuclear factor I X | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4790 | NM_001165412,NM | **NFKB1** | nuclear factor kappa B s | protein_coding | 60 | 58 | 61 | 59 | 0.958 |
| 4791 | NM_001077494,NM | **NFKB2** | nuclear factor kappa B s | protein_coding | 14 | 15 | 15 | 16 | 1.062 |
| 4792 | NM_020529 | **NFKBIA** | NFKB inhibitor alpha | protein_coding | 72 | 70 | 73 | 71 | 0.967 |
| 4793 | NM_001243116,NM | **NFKBIB** | NFKB inhibitor beta | protein_coding | 126 | 125 | 127 | 126 | 0.995 |
| 4794 | NM_004556 | **NFKBIE** | NFKB inhibitor epsilon | protein_coding | 10 | 12 | 11 | 13 | 1.170 |
| 4795 | NM_001144961,NM | **NFKBIL1** | NFKB inhibitor like 1 | protein_coding | 36 | 38 | 37 | 39 | 1.074 |
| 4796 | NM_013432,XM_01 | **TONSL** | tonsoku like, DNA repair | protein_coding | 21 | 20 | 22 | 21 | 0.960 |
| 4798 | NM_001143835,NM | **NFRKB** | nuclear factor related to | protein_coding | 22 | 20 | 23 | 21 | 0.934 |
| 4799 | NM_001318758,NM | **NFX1** | nuclear transcription fact | protein_coding | 41 | 40 | 42 | 41 | 0.976 |
| 4800 | NM_002505,NM_02 | **NFYA** | nuclear transcription fact | protein_coding | 30 | 28 | 31 | 29 | 0.935 |
| 4801 | NM_006166,XM_00 | **NFYB** | nuclear transcription fact | protein_coding | 32 | 32 | 33 | 33 | 1.012 |
| 4802 | NM_001142587,NM | **NFYC** | nuclear transcription fact | protein_coding | 61 | 62 | 62 | 63 | 1.025 |
| 4803 | NM_002506,XM_00 | **NGF** | nerve growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4804 | NM_002507 | **NGFR** | nerve growth factor rece | protein_coding | 5 | 5 | 6 | 6 | 1.075 |
| 4807 | NM_005598 | **NHLH1** | nescient helix-loop-helix | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 4808 | NM_001111061,NM | **NHLH2** | nescient helix-loop-helix | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4809 | NM_001003796,NM | **SNU13** | small nuclear ribonucleo | protein_coding | 236 | 254 | 237 | 255 | 1.074 |
| 4810 | NM_001136024,NM | **NHS** | NHS actin remodeling re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4811 | NM_002508,XM_01 | **NID1** | nidogen 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4814 | NM_004148,XM_01 | **NINJ1** | ninjurin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4815 | NM_001294345,NM | **NINJ2** | ninjurin 2 | protein_coding | 2 | 2 | 3 | 3 | 0.961 |
| 4817 | NM_001185092,NM | **NIT1** | nitrilase 1 | protein_coding | 23 | 27 | 24 | 28 | 1.181 |
| 4818 | NM_001363693,NM | **NKG7** | natural killer cell granule | protein_coding | 3,215 | 3,445 | 3,216 | 3,446 | 1.071 |
| 4820 | NM_001349124,NM | **NKTR** | natural killer cell triggerir | protein_coding | 30 | 26 | 31 | 27 | 0.870 |
| 4821 | NM_002509,XM_00 | **NKX2-2** | NK2 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4824 | NM_001256339,NM | **NKX3-1** | NK3 homeobox 1 | protein_coding | 1 | 1 | 2 | 2 | 0.942 |
| 4825 | NM_006168 | **NKX6-1** | NK6 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4826 | NM_001322802,NM | **NNAT** | neuronatin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4828 | NM_021077,NM_20 | **NMB** | neuromedin B | protein_coding | 0 | 1 | 1 | 2 | 1.429 |
| 4829 | NM_001324307,NM | **NMBR** | neuromedin B receptor | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 4830 | NM_000269,NM_19 | **NME1** | NME/NM23 nucleoside d | protein_coding | 737 | 744 | 738 | 745 | 1.010 |
| 4831 | NM_001018137,NM | **NME2** | NME/NM23 nucleoside d | protein_coding | 1,412 | 1,510 | 1,413 | 1,511 | 1.069 |
| 4832 | NM_002513,XM_00 | **NME3** | NME/NM23 nucleoside d | protein_coding | 1 | 1 | 2 | 2 | 0.941 |
| 4833 | NM_001286433,NM | **NME4** | NME/NM23 nucleoside d | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 4835 | NM_000904,NM_00 | **NQO2** | N-ribosyldihydronicotinar | protein_coding | 24 | 21 | 25 | 22 | 0.870 |
| 4836 | NM_021079,XR_00 | **NMT1** | N-myristoyltransferase 1 | protein_coding | 81 | 79 | 82 | 80 | 0.973 |
| 4837 | NM_001372045,NM | **NNMT** | nicotinamide N-methyltra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4838 | NM_001329906,NM | **NODAL** | nodal growth differentiati | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4839 | NM_001033714,NM | **NOP2** | NOP2 nucleolar protein | protein_coding | 81 | 80 | 82 | 81 | 0.986 |
| 4841 | NM_001145408,NM | **NONO** | non-POU domain contair | protein_coding | 598 | 604 | 599 | 605 | 1.010 |
| 4842 | NM_000620,NM_00 | **NOS1** | nitric oxide synthase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4843 | NM_000625 | **NOS2** | nitric oxide synthase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4846 | NM_000603,NM_00 | **NOS3** | nitric oxide synthase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.043 |
| 4848 | NM_001199302,NM | **CNOT2** | CCR4-NOT transcription | protein_coding | 34 | 31 | 35 | 32 | 0.910 |
| 4849 | NM_014516,XM_00 | **CNOT3** | CCR4-NOT transcription | protein_coding | 54 | 55 | 55 | 56 | 1.031 |
| 4850 | NM_001008225,NM | **CNOT4** | CCR4-NOT transcription | protein_coding | 18 | 17 | 19 | 18 | 0.956 |
| 4851 | NM_017617,XM_01 | **NOTCH1** | notch receptor 1 | protein_coding | 8 | 8 | 9 | 9 | 1.022 |
| 4852 | NM_000905 | **NPY** | neuropeptide Y | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4853 | NM_001200001,NM | **NOTCH2** | notch receptor 2 | protein_coding | 51 | 43 | 52 | 44 | 0.850 |
| 4854 | NM_000435,XM_00 | **NOTCH3** | notch receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4855 | NM_004557,NR_13 | **NOTCH4** | notch receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 4856 | NM_002514 | **CCN3** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4857 | NM_001366390,NM | **NOVA1** | NOVA alternative splicing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4858 | NM_002516,XM_00 | **NOVA2** | NOVA alternative splicing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4860 | NM_000270 | **PNP** | purine nucleoside phosp | protein_coding | 201 | 197 | 202 | 198 | 0.979 |
| 4861 | NM_001321086,NM | **NPAS1** | neuronal PAS domain pr | protein_coding | 1 | 1 | 2 | 2 | 1.116 |
| 4862 | NM_002518,XM_00 | **NPAS2** | neuronal PAS domain pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4863 | NM_001321307,NM | **NPAT** | nuclear protein, coactival | protein_coding | 18 | 16 | 19 | 17 | 0.886 |
| 4864 | NM_000271,XM_00 | **NPC1** | NPC intracellular cholest | protein_coding | 24 | 22 | 25 | 23 | 0.923 |
| 4867 | NM_000272,NM_00 | **NPHP1** | nephrocystin 1 | protein_coding | 1 | 1 | 2 | 2 | 1.146 |
| 4868 | NM_004646 | **NPHS1** | NPHS1 adhesion molecu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4869 | NM_001037738,NM | **NPM1** | nucleophosmin 1 | protein_coding | 4,527 | 4,327 | 4,528 | 4,328 | 0.956 |
| 4878 | NM_006172 | **NPPA** | natriuretic peptide A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4879 | NM_002521 | **NPPB** | natriuretic peptide B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4880 | NM_024409,XM_01 | **NPPC** | natriuretic peptide C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4881 | NM_000906,XM_00 | **NPR1** | natriuretic peptide recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4882 | NM_001378923,NM | **NPR2** | natriuretic peptide recept | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 4883 | NM_000908,NM_00 | **NPR3** | natriuretic peptide recept | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 4884 | NM_002522 | **NPTX1** | neuronal pentraxin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 4885 | NM_002523 | **NPTX2** | neuronal pentraxin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4886 | NM_000909,XM_00 | **NPY1R** | neuropeptide Y receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4887 | NM_000910,NM_00 | **NPY2R** | neuropeptide Y receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4888 | NR_002713 | **NPY6R** | neuropeptide Y receptor | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 4889 | NM_001317091,NM | **NPY5R** | neuropeptide Y receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4891 | NM_000617,NM_00 | **SLC11A2** | solute carrier family 11 m | protein_coding | 16 | 15 | 17 | 16 | 0.979 |
| 4892 | NM_001261463,NM | **NRAP** | nebulin related anchorin | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 4893 | NM_002524 | **NRAS** | NRAS proto-oncogene, G | protein_coding | 127 | 116 | 128 | 117 | 0.913 |
| 4897 | NM_001037132,NM | **NRCAM** | neuronal cell adhesion m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4898 | NM_001101662,NM | **NRDC** | nardilysin convertase | protein_coding | 121 | 112 | 122 | 113 | 0.924 |
| 4899 | NM_001040110,NM | **NRF1** | nuclear respiratory factor | protein_coding | 21 | 19 | 22 | 20 | 0.907 |
| 4900 | NM_001126181,NM | **NRGN** | neurogranin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4901 | NM_001354768,NM | **NRL** | neural retina leucine zipp | protein_coding | 1 | 1 | 2 | 2 | 0.853 |
| 4902 | NM_004558,XM_01 | **NRTN** | neurturin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4904 | NM_004559,NR_13 | **YBX1** | Y-box binding protein 1 | protein_coding | 878 | 936 | 879 | 937 | 1.066 |
| 4905 | NM_006178,NR_04 | **NSF** | N-ethylmaleimide sensiti | protein_coding | 41 | 37 | 42 | 38 | 0.911 |
| 4907 | NM_001204813,NM | **NT5E** | 5'-nucleotidase ecto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4908 | NM_001102654,NM | **NTF3** | neurotrophin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4909 | NM_006179,XM_00 | **NTF4** | neurotrophin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4910 | gene-NTF6A | **NTF6A** | neurotrophin 6 alpha (ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4911 | gene-NTF6B | **NTF6B** | neurotrophin 6 beta (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4912 | gene-NTF6G | **NTF6G** | neurotrophin 6 gamma (p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4913 | NM_001318193,NM | **NTHL1** | nth like DNA glycosylase | protein_coding | 65 | 67 | 66 | 68 | 1.029 |
| 4914 | NM_001007792,NM | **NTRK1** | neurotrophic receptor tyr | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 4915 | NM_001007097,NM | **NTRK2** | neurotrophic receptor tyr | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 4916 | NM_001007156,NM | **NTRK3** | neurotrophic receptor tyr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4917 | NM_006181 | **NTN3** | netrin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.851 |
| 4919 | NM_001083592,NM | **ROR1** | receptor tyrosine kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4920 | NM_001318204,NM | **ROR2** | receptor tyrosine kinase | protein_coding | 0 | 0 | 1 | 1 | 1.162 |
| 4921 | NM_001014796,NM | **DDR2** | discoidin domain receptc | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 4922 | NM_006183 | **NTS** | neurotensin | protein_coding | 0 | 0 | 1 | 1 | 0.866 |
| 4923 | NM_002531,XM_01 | **NTSR1** | neurotensin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4924 | NM_006184,XM_01 | **NUCB1** | nucleobindin 1 | protein_coding | 73 | 84 | 74 | 85 | 1.154 |
| 4925 | NM_001330227,NM | **NUCB2** | nucleobindin 2 | protein_coding | 183 | 175 | 184 | 176 | 0.956 |
| 4926 | NM_001286561,NM | **NUMA1** | nuclear mitotic apparatus | protein_coding | 62 | 62 | 63 | 63 | 1.004 |
| 4927 | NM_001320653,NM | **NUP88** | nucleoporin 88 | protein_coding | 34 | 33 | 35 | 34 | 0.982 |
| 4928 | NM_001365125,NM | **NUP98** | nucleoporin 98 and 96 p | protein_coding | 115 | 101 | 116 | 102 | 0.878 |
| 4929 | NM_006186,NM_17 | **NR4A2** | nuclear receptor subfam | protein_coding | 28 | 25 | 29 | 26 | 0.879 |
| 4931 | NM_001243146,NM | **NVL** | nuclear VCP like | protein_coding | 28 | 26 | 29 | 27 | 0.937 |
| 4935 | NM_000273,XM_00 | **GPR143** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4938 | NM_001032409,NM | **OAS1** | 2'-5'-oligoadenylate synt | protein_coding | 60 | 50 | 61 | 51 | 0.837 |
| 4939 | NM_001032731,NM | **OAS2** | 2'-5'-oligoadenylate synt | protein_coding | 105 | 85 | 106 | 86 | 0.817 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4940 | NM_006187,XM_00 | **OAS3** | 2'-5'-oligoadenylate synth | protein_coding | 15 | 13 | 16 | 14 | 0.876 |
| 4942 | NM_000274,NM_00 | **OAT** | ornithine aminotransfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4943 | NM_001348262,NM | **TBC1D25** | TBC1 domain family mer | protein_coding | 20 | 19 | 21 | 20 | 0.949 |
| 4946 | NM_001301020,NM | **OAZ1** | ornithine decarboxylase a | protein_coding | 928 | 986 | 929 | 987 | 1.062 |
| 4947 | NM_001301302,NM | **OAZ2** | ornithine decarboxylase a | protein_coding | 86 | 84 | 87 | 85 | 0.974 |
| 4948 | NM_000275,NM_00 | **OCA2** | OCA2 melanosomal tran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4951 | NM_006188 | **OCM2** | oncomodulin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4952 | NM_000276,NM_00 | **OCRL** | OCRL inositol polyphosp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4953 | NM_001287188,NM | **ODC1** | ornithine decarboxylase | protein_coding | 566 | 621 | 567 | 622 | 1.097 |
| 4954 | gene-ODCP | **ODCP** | ornithine decarboxylase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 4956 | NM_024410 | **ODF1** | outer dense fiber of sper | protein_coding | 0 | 0 | 1 | 1 | 1.097 |
| 4957 | NM_001242352,NM | **ODF2** | outer dense fiber of sper | protein_coding | 61 | 63 | 62 | 64 | 1.044 |
| 4958 | NM_005014 | **OMD** | osteomodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4967 | NM_001003941,NM | **OGDH** | oxoglutarate dehydrogen | protein_coding | 56 | 58 | 57 | 59 | 1.039 |
| 4968 | NM_001354648,NM | **OGG1** | 8-oxoguanine DNA glyco | protein_coding | 32 | 34 | 33 | 35 | 1.077 |
| 4969 | NM_014057,NM_02 | **OGN** | osteoglycin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4973 | NM_001172632,NM | **OLR1** | oxidized low density lipo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4974 | NM_002544 | **OMG** | oligodendrocyte myelin g | protein_coding | 0 | 0 | 1 | 1 | 1.175 |
| 4975 | NM_006189 | **OMP** | olfactory marker protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4976 | NM_001354663,NM | **OPA1** | OPA1 mitochondrial dyn | protein_coding | 69 | 61 | 70 | 62 | 0.890 |
| 4978 | NM_001012393,NM | **OPCML** | opioid binding protein/ce | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 4982 | NM_002546 | **TNFRSF11B** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4983 | NM_002547,XM_00 | **OPHN1** | oligophrenin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 4985 | NM_000911 | **OPRD1** | opioid receptor delta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4986 | NM_000912,NM_00 | **OPRK1** | opioid receptor kappa 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4987 | NM_000913,NM_00 | **OPRL1** | opioid related nociceptin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4988 | NM_000914,NM_00 | **OPRM1** | opioid receptor mu 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4990 | NM_007374 | **SIX6** | SIX homeobox 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4991 | NM_002548 | **OR1D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4992 | NM_001370639,NM | **OR1F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4993 | NM_012368 | **OR2C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4994 | NM_002550,XM_01 | **OR3A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4995 | NM_002551,XM_01 | **OR3A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 4998 | NM_001190818,NM | **ORC1** | origin recognition comple | protein_coding | 77 | 77 | 78 | 78 | 0.995 |
| 4999 | NM_006190,NR_03 | **ORC2** | origin recognition comple | protein_coding | 44 | 39 | 45 | 40 | 0.882 |
| 5000 | NM_001190879,NM | **ORC4** | origin recognition comple | protein_coding | 10 | 10 | 11 | 11 | 0.941 |
| 5001 | NM_002553,NM_18 | **ORC5** | origin recognition comple | protein_coding | 66 | 63 | 67 | 64 | 0.950 |
| 5002 | NM_001315501,NM | **SLC22A18** | solute carrier family 22 m | protein_coding | 1 | 1 | 2 | 2 | 1.398 |
| 5003 | NM_001302862,NM | **SLC22A18AS** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5004 | NM_000607 | **ORM1** | orosomucoid 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5005 | NM_000608 | **ORM2** | orosomucoid 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5007 | NM_002556 | **OSBP** | oxysterol binding protein | protein_coding | 47 | 47 | 48 | 48 | 0.987 |
| 5008 | NM_001319108,NM | **OSM** | oncostatin M | protein_coding | 15 | 15 | 16 | 16 | 1.005 |
| 5009 | NM_000531,XM_01 | **OTC** | ornithine carbamoyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5010 | NM_001185056,NM | **CLDN11** | claudin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 5013 | NM_001199770,NM | **OTX1** | orthodenticle homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 5015 | NM_001270523,NM | **OTX2** | orthodenticle homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5016 | NM_002557 | **OVGP1** | oviductal glycoprotein 1 | protein_coding | 1 | 1 | 2 | 2 | 0.941 |
| 5017 | NM_004561,XM_00 | **OVOL1** | ovo like transcriptional re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5018 | NM_005015 | **OXA1L** | OXA1L mitochondrial inn | protein_coding | 60 | 68 | 61 | 69 | 1.118 |
| 5019 | NM_000436,NM_00 | **OXCT1** | 3-oxoacid CoA-transferas | protein_coding | 133 | 135 | 134 | 136 | 1.018 |
| 5020 | NM_000915,XM_01 | **OXT** | oxytocin/neurophysin I p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5021 | NM_000916,NM_00 | **OXTR** | oxytocin receptor | protein_coding | 2 | 1 | 3 | 2 | 0.761 |
| 5023 | NM_002558,XM_00 | **P2RX1** | purinergic receptor P2X | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 5024 | NM_002559,XM_01 | **P2RX3** | purinergic receptor P2X | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 5025 | NM_001256796,NM | **P2RX4** | purinergic receptor P2X | protein_coding | 11 | 11 | 12 | 12 | 0.946 |
| 5026 | NM_001204519,NM | **P2RX5** | purinergic receptor P2X | protein_coding | 1 | 1 | 2 | 2 | 0.875 |
| 5027 | NM_002562,NR_03 | **P2RX7** | purinergic receptor P2X | protein_coding | 5 | 5 | 6 | 6 | 0.979 |
| 5028 | NM_002563 | **P2RY1** | purinergic receptor P2Y1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5029 | NM_002564,NM_17 | **P2RY2** | purinergic receptor P2Y2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5030 | NM_002565 | **P2RY4** | pyrimidinergic receptor P | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 5031 | NM_001277204,NM | **P2RY6** | pyrimidinergic receptor P | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5032 | NM_002566 | **P2RY11** | purinergic receptor P2Y1 | protein_coding | 0 | 0 | 1 | 1 | 0.872 |
| 5033 | NM_000917,NM_00 | **P4HA1** | prolyl 4-hydroxylase sub | protein_coding | 14 | 12 | 15 | 13 | 0.881 |
| 5034 | NM_000918,XM_02 | **P4HB** | prolyl 4-hydroxylase sub | protein_coding | 406 | 405 | 407 | 406 | 0.998 |
| 5036 | NM_006191 | **PA2G4** | proliferation-associated 2 | protein_coding | 465 | 454 | 466 | 455 | 0.975 |
| 5037 | NM_002567 | **PEBP1** | phosphatidylethanolamir | protein_coding | 249 | 263 | 250 | 264 | 1.058 |
| 5042 | NM_030979 | **PABPC3** | poly(A) binding protein c | protein_coding | 0 | 0 | 1 | 1 | 1.119 |
| 5045 | NM_001289823,NM | **FURIN** | furin, paired basic amino | protein_coding | 5 | 6 | 6 | 7 | 1.103 |
| 5046 | NM_001291309,NM | **PCSK6** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 5047 | NM_001018048,NM | **PAEP** | progestagen associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5048 | NM_000430,XM_01 | **PAFAH1B1** | platelet activating factor a | protein_coding | 51 | 44 | 52 | 45 | 0.871 |
| 5049 | NM_001184746,NM | **PAFAH1B2** | platelet activating factor a | protein_coding | 49 | 45 | 50 | 46 | 0.915 |
| 5050 | NM_001145939,NM | **PAFAH1B3** | platelet activating factor a | protein_coding | 67 | 70 | 68 | 71 | 1.043 |
| 5051 | NM_000437,XM_00 | **PAFAH2** | platelet activating factor a | protein_coding | 13 | 13 | 14 | 14 | 1.053 |
| 5052 | NM_001202431,NM | **PRDX1** | peroxiredoxin 1 | protein_coding | 508 | 487 | 509 | 488 | 0.960 |
| 5053 | NM_000277,NM_00 | **PAH** | phenylalanine hydroxyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5054 | NM_000602 | **SERPINE1** | serpin family E member | protein_coding | 3 | 4 | 4 | 5 | 1.264 |
| 5055 | NM_001143818,NM | **SERPINB2** | serpin family B member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5058 | NM_001128620,NM | **PAK1** | p21 (RAC1) activated kin | protein_coding | 0 | 0 | 1 | 1 | 0.929 |
| 5062 | NM_002577,XM_01 | **PAK2** | p21 (RAC1) activated kin | protein_coding | 103 | 91 | 104 | 92 | 0.876 |
| 5063 | NM_001128166,NM | **PAK3** | p21 (RAC1) activated kin | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 5064 | NM_001040134,NM | **PALM** | paralemmin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5066 | NM_000919,NM_00 | **PAM** | peptidylglycine alpha-am | protein_coding | 7 | 5 | 8 | 6 | 0.798 |
| 5067 | NM_020872,XM_00 | **CNTN3** | contactin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5068 | NM_002580,NM_13 | **REG3A** | regenerating family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5069 | NM_002581,XM_00 | **PAPPA** | pappalysin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 5071 | NM_004562,NM_01 | **PRKN** | parkin RBR E3 ubiquitin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5073 | NM_001134477,NM | **PARN** | poly(A)-specific ribonucle | protein_coding | 61 | 58 | 62 | 59 | 0.947 |
| 5074 | NM_001354732,NM | **PAWR** | pro-apoptotic WT1 regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5075 | NM_001257096,NM | **PAX1** | paired box 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5076 | NM_000278,NM_00 | **PAX2** | paired box 2 | protein_coding | 0 | 0 | 1 | 1 | 1.318 |
| 5077 | NM_000438,NM_00 | **PAX3** | paired box 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5078 | NM_001366110,NM | **PAX4** | paired box 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5079 | NM_001280547,NM | **PAX5** | paired box 5 | protein_coding | 1 | 0 | 2 | 1 | 0.749 |
| 5080 | NM_000280,NM_00 | **PAX6** | paired box 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5081 | NM_001135254,NM | **PAX7** | paired box 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5082 | NM_005388 | **PDCL** | phosducin like | protein_coding | 15 | 17 | 16 | 18 | 1.129 |
| 5083 | NM_001372076,NM | **PAX9** | paired box 9 | protein_coding | 2 | 2 | 3 | 3 | 1.168 |
| 5087 | NM_001204961,NM | **PBX1** | PBX homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5088 | gene-PBX2P1 | **PBX2P1** | PBX homeobox 2 pseud | pseudogene | 1 | 1 | 2 | 2 | 1.006 |
| 5089 | NM_002586 | **PBX2** | PBX homeobox 2 | protein_coding | 64 | 59 | 65 | 60 | 0.920 |
| 5090 | NM_001134778,NM | **PBX3** | PBX homeobox 3 | protein_coding | 8 | 8 | 9 | 9 | 1.002 |
| 5091 | NM_000920,NM_00 | **PC** | pyruvate carboxylase | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 5092 | NM_000281,NM_00 | **PCBD1** | pterin-4 alpha-carbinolar | protein_coding | 9 | 9 | 10 | 10 | 0.968 |
| 5093 | NM_006196 | **PCBP1** | poly(rC) binding protein | protein_coding | 446 | 440 | 447 | 441 | 0.987 |
| 5094 | NM_001098620,NM | **PCBP2** | poly(rC) binding protein | protein_coding | 269 | 284 | 270 | 285 | 1.057 |
| 5095 | NM_000282,NM_00 | **PCCA** | propionyl-CoA carboxyla | protein_coding | 14 | 13 | 15 | 14 | 0.943 |
| 5096 | NM_000532,NM_00 | **PCCB** | propionyl-CoA carboxyla | protein_coding | 66 | 62 | 67 | 63 | 0.944 |
| 5097 | NM_001278613,NM | **PCDH1** | protocadherin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5098 | NM_002588,NM_03 | **PCDHGC3** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5099 | NM_001173523,NM | **PCDH7** | protocadherin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 5100 | NM_002590,NM_03 | **PCDH8** | protocadherin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5101 | NM_001318372,NM | **PCDH9** | protocadherin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5104 | NM_000624 | **SERPINA5** | serpin family A member ! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5105 | NM_002591,XM_02 | **PCK1** | phosphoenolpyruvate ca | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5106 | NM_001018073,NM | **PCK2** | phosphoenolpyruvate ca | protein_coding | 32 | 32 | 33 | 33 | 1.001 |
| 5108 | NM_001315507,NM | **PCM1** | pericentriolar material 1 | protein_coding | 37 | 35 | 38 | 36 | 0.941 |
| 5110 | NM_001252049,NM | **PCMT1** | protein-L-isoaspartate (D | protein_coding | 151 | 139 | 152 | 140 | 0.923 |
| 5111 | NM_002592,NM_18 | **PCNA** | proliferating cell nuclear | protein_coding | 552 | 538 | 553 | 539 | 0.976 |
| 5116 | NM_001315529,NM | **PCNT** | pericentrin | protein_coding | 19 | 17 | 20 | 18 | 0.925 |
| 5118 | NM_002593,XM_02 | **PCOLCE** | procollagen C-endopepti | protein_coding | 5 | 4 | 6 | 5 | 0.954 |
| 5119 | NM_001083314,NM | **CHMP1A** | charged multivesicular b | protein_coding | 103 | 109 | 104 | 110 | 1.057 |
| 5121 | NM_006198 | **PCP4** | Purkinje cell protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5122 | NM_000439,NM_00 | **PCSK1** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5125 | NM_001190482,NM | **PCSK5** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5126 | NM_001201528,NM | **PCSK2** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5127 | NM_001170460,NM | **CDK16** | cyclin dependent kinase | protein_coding | 35 | 34 | 36 | 35 | 0.982 |
| 5128 | NM_001170464,NM | **CDK17** | cyclin dependent kinase | protein_coding | 26 | 22 | 27 | 23 | 0.858 |
| 5129 | NM_002596,NM_21 | **CDK18** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5130 | NM_001312673,NM | **PCYT1A** | phosphate cytidylyltransf | protein_coding | 37 | 39 | 38 | 40 | 1.052 |
| 5132 | NM_002597,NM_02 | **PDC** | phosducin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5133 | NM_005018,XM_00 | **PDCD1** | programmed cell death 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5134 | NM_001199461,NM | **PDCD2** | programmed cell death 2 | protein_coding | 94 | 88 | 95 | 89 | 0.940 |
| 5136 | NM_001003683,NM | **PDE1A** | phosphodiesterase 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5137 | NM_001191056,NM | **PDE1C** | phosphodiesterase 1C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5138 | NM_001143839,NM | **PDE2A** | phosphodiesterase 2A | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 5139 | NM_000921,NM_00 | **PDE3A** | phosphodiesterase 3A | protein_coding | 7 | 6 | 8 | 7 | 0.854 |
| 5140 | NM_000922,NM_00 | **PDE3B** | phosphodiesterase 3B | protein_coding | 10 | 8 | 11 | 9 | 0.873 |
| 5141 | NM_001111307,NM | **PDE4A** | phosphodiesterase 4A | protein_coding | 15 | 13 | 16 | 14 | 0.862 |
| 5142 | NM_001037339,NM | **PDE4B** | phosphodiesterase 4B | protein_coding | 7 | 6 | 8 | 7 | 0.872 |
| 5143 | NM_000923,NM_00 | **PDE4C** | phosphodiesterase 4C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5144 | NM_001104631,NM | **PDE4D** | phosphodiesterase 4D | protein_coding | 26 | 21 | 27 | 22 | 0.808 |
| 5145 | NM_000440,XM_01 | **PDE6A** | phosphodiesterase 6A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5146 | NM_006204 | **PDE6C** | phosphodiesterase 6C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5147 | NM_001291018,NM | **PDE6D** | phosphodiesterase 6D | protein_coding | 31 | 36 | 32 | 37 | 1.173 |
| 5148 | NM_001365724,NM | **PDE6G** | phosphodiesterase 6G | protein_coding | 1 | 0 | 2 | 1 | 0.944 |
| 5149 | NM_006205,XM_01 | **PDE6H** | phosphodiesterase 6H | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 5150 | NM_001242318,NM | **PDE7A** | phosphodiesterase 7A | protein_coding | 32 | 31 | 33 | 32 | 0.964 |
| 5151 | NM_001243137,NM | **PDE8A** | phosphodiesterase 8A | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 5152 | NM_001001567,NM | **PDE9A** | phosphodiesterase 9A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5153 | NM_000924,NM_00 | **PDE1B** | phosphodiesterase 1B | protein_coding | 3 | 3 | 4 | 4 | 1.015 |
| 5154 | NM_002607,NM_03 | **PDGFA** | platelet derived growth fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5155 | NM_002608,NM_03 | **PDGFB** | platelet derived growth fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5156 | NM_001347827,NM | **PDGFRA** | platelet derived growth fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5157 | NM_001372073,NM | **PDGFRL** | platelet derived growth fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5158 | NM_000283,NM_00 | **PDE6B** | phosphodiesterase 6B | protein_coding | 2 | 2 | 3 | 3 | 0.951 |
| 5159 | NM_001355016,NM | **PDGFRB** | platelet derived growth fa | protein_coding | 80 | 75 | 81 | 76 | 0.931 |
| 5160 | NM_000284,NM_00 | **PDHA1** | pyruvate dehydrogenase | protein_coding | 114 | 111 | 115 | 112 | 0.969 |
| 5161 | NM_005390 | **PDHA2** | pyruvate dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5162 | NM_000925,NM_00 | **PDHB** | pyruvate dehydrogenase | protein_coding | 118 | 110 | 119 | 111 | 0.930 |
| 5163 | NM_001278549,NM | **PDK1** | pyruvate dehydrogenase | protein_coding | 6 | 4 | 7 | 5 | 0.642 |
| 5164 | NM_001199898,NM | **PDK2** | pyruvate dehydrogenase | protein_coding | 9 | 11 | 10 | 12 | 1.170 |
| 5165 | NM_001142386,NM | **PDK3** | pyruvate dehydrogenase | protein_coding | 7 | 6 | 8 | 7 | 0.908 |
| 5166 | NM_002612 | **PDK4** | pyruvate dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5167 | NM_006208 | **ENPP1** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5168 | NM_001040092,NM | **ENPP2** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5169 | NM_005021,NR_13 | **ENPP3** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.290 |
| 5170 | NM_001261816,NM | **PDPK1** | 3-phosphoinositide depe | protein_coding | 37 | 33 | 38 | 34 | 0.882 |
| 5172 | NM_000441,XM_00 | **SLC26A4** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 0.824 |
| 5173 | NM_001190892,NM | **PDYN** | prodynorphin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5174 | NM_001201325,NM | **PDZK1** | PDZ domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 5175 | NM_000442,XM_00 | **PECAM1** | platelet and endothelial c | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 5176 | NM_001329903,NM | **SERPINF1** | serpin family F member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5178 | NM_001146184,NM | **PEG3** | paternally expressed 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5179 | NM_001135690 | **PENK** | proenkephalin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5184 | NM_000285,NM_00 | **PEPD** | peptidase D | protein_coding | 9 | 11 | 10 | 12 | 1.239 |
| 5187 | NM_002616,XM_00 | **PER1** | period circadian regulato | protein_coding | 2 | 2 | 3 | 3 | 1.009 |
| 5188 | NM_001363341,NM | **GATB** | glutamyl-tRNA amidotrar | protein_coding | 22 | 23 | 23 | 24 | 1.067 |
| 5189 | NM_000466,NM_00 | **PEX1** | peroxisomal biogenesis f | protein_coding | 10 | 12 | 11 | 13 | 1.116 |
| 5190 | NM_000287,NM_00 | **PEX6** | peroxisomal biogenesis f | protein_coding | 18 | 18 | 19 | 19 | 1.000 |
| 5191 | NM_000288,XM_00 | **PEX7** | peroxisomal biogenesis f | protein_coding | 4 | 3 | 5 | 4 | 0.901 |
| 5192 | NM_001374425,NM | **PEX10** | peroxisomal biogenesis f | protein_coding | 12 | 13 | 13 | 14 | 1.039 |
| 5193 | NM_000286 | **PEX12** | peroxisomal biogenesis f | protein_coding | 11 | 12 | 12 | 13 | 1.114 |
| 5194 | NM_002618 | **PEX13** | peroxisomal biogenesis f | protein_coding | 11 | 9 | 12 | 10 | 0.873 |
| 5195 | NM_004565,XM_00 | **PEX14** | peroxisomal biogenesis f | protein_coding | 37 | 36 | 38 | 37 | 0.964 |
| 5196 | NM_001363352,NM | **PF4** | platelet factor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5197 | NM_002620 | **PF4V1** | platelet factor 4 variant 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5198 | NM_012393,XM_00 | **PFAS** | phosphoribosylformylgly | protein_coding | 32 | 31 | 33 | 32 | 0.967 |
| 5199 | NM_001145252,NM | **CFP** | complement factor prope | protein_coding | 0 | 0 | 1 | 1 | 0.822 |
| 5201 | NM_002622,XM_00 | **PFDN1** | prefoldin subunit 1 | protein_coding | 187 | 174 | 188 | 175 | 0.931 |
| 5202 | NM_012394,XM_01 | **PFDN2** | prefoldin subunit 2 | protein_coding | 376 | 386 | 377 | 387 | 1.026 |
| 5203 | NM_002623,XM_01 | **PFDN4** | prefoldin subunit 4 | protein_coding | 99 | 91 | 100 | 92 | 0.914 |
| 5204 | NM_002624,NM_14 | **PFDN5** | prefoldin subunit 5 | protein_coding | 327 | 356 | 328 | 357 | 1.088 |
| 5205 | NM_001374385,NM | **ATP8B1** | ATPase phospholipid tra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5207 | NM_001271804,NM | **PFKFB1** | 6-phosphofructo-2-kinas | protein_coding | 0 | 0 | 1 | 1 | 0.815 |
| 5208 | NM_001018053,NM | **PFKFB2** | 6-phosphofructo-2-kinas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5209 | NM_001145443,NM | **PFKFB3** | 6-phosphofructo-2-kinas | protein_coding | 16 | 16 | 17 | 17 | 1.020 |
| 5210 | NM_001317134,NM | **PFKFB4** | 6-phosphofructo-2-kinas | protein_coding | 1 | 1 | 2 | 2 | 0.778 |
| 5211 | NM_001002021,NM | **PFKL** | phosphofructokinase, liv | protein_coding | 52 | 55 | 53 | 56 | 1.049 |
| 5212 | NM_001177969,NM | **VIT** | vitrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5213 | NM_000289,NM_00 | **PFKM** | phosphofructokinase, mu | protein_coding | 4 | 4 | 5 | 5 | 0.997 |
| 5214 | NM_001242339,NM | **PFKP** | phosphofructokinase, pla | protein_coding | 148 | 146 | 149 | 147 | 0.986 |
| 5216 | NM_001375991,NM | **PFN1** | profilin 1 | protein_coding | 1,750 | 1,967 | 1,751 | 1,968 | 1.124 |
| 5217 | NM_002628,NM_05 | **PFN2** | profilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5218 | NM_001287135,NM | **CDK14** | cyclin dependent kinase | protein_coding | 25 | 20 | 26 | 21 | 0.812 |
| 5222 | NM_014224 | **PGA5** | pepsinogen A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5223 | NM_001317079,NM | **PGAM1** | phosphoglycerate mutas | protein_coding | 468 | 481 | 469 | 482 | 1.026 |
| 5224 | NM_000290 | **PGAM2** | phosphoglycerate mutas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5225 | NM_001166424,NM | **PGC** | progastricsin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5226 | NM_001304451,NM | **PGD** | phosphogluconate dehy | protein_coding | 183 | 192 | 184 | 193 | 1.048 |
| 5228 | NM_001207012,NM | **PGF** | placental growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5229 | NM_005023,XM_00 | **PGGT1B** | protein geranylgeranyltra | protein_coding | 1 | 1 | 2 | 2 | 0.878 |
| 5230 | NM_000291 | **PGK1** | phosphoglycerate kinase | protein_coding | 345 | 330 | 346 | 331 | 0.954 |
| 5231 | gene-PGK1P1 | **PGK1P1** | phosphoglycerate kinase | pseudogene | 1 | 1 | 2 | 2 | 1.121 |
| 5232 | NM_138733 | **PGK2** | phosphoglycerate kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5233 | gene-PGK1P2 | **PGK1P2** | phosphoglycerate kinase | pseudogene | 0 | 0 | 1 | 1 | 0.962 |
| 5236 | NM_001172818,NM | **PGM1** | phosphoglucomutase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 5238 | NM_001199917,NM | **PGM3** | phosphoglucomutase 3 | protein_coding | 5 | 5 | 6 | 6 | 0.962 |
| 5239 | NM_021965,XM_01 | **PGM5** | phosphoglucomutase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5241 | NM_000926,NM_00 | **PGR** | progesterone receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5243 | NM_000927,NM_00 | **ABCB1** | ATP binding cassette sul | protein_coding | 15 | 13 | 16 | 14 | 0.844 |
| 5244 | NM_000443,NM_01 | **ABCB4** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 5245 | NM_001281496,NM | **PHB** | prohibitin | protein_coding | 487 | 519 | 488 | 520 | 1.065 |
| 5246 | gene-PHBP1 | **PHBP1** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5250 | NM_002635,NM_00 | **SLC25A3** | solute carrier family 25 m | protein_coding | 122 | 131 | 123 | 132 | 1.074 |
| 5251 | NM_000444,NM_00 | **PHEX** | phosphate regulating en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5252 | NM_002636,NM_02 | **PHF1** | PHD finger protein 1 | protein_coding | 21 | 21 | 22 | 22 | 1.021 |
| 5253 | NM_005392,XM_00 | **PHF2** | PHD finger protein 2 | protein_coding | 9 | 9 | 10 | 10 | 1.004 |
| 5255 | NM_001122670,NM | **PHKA1** | phosphorylase kinase re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5256 | NM_000292,XM_00 | **PHKA2** | phosphorylase kinase re | protein_coding | 7 | 6 | 8 | 7 | 0.868 |
| 5257 | NM_000293,NM_00 | **PHKB** | phosphorylase kinase re | protein_coding | 18 | 17 | 19 | 18 | 0.926 |
| 5260 | NM_001258459,NM | **PHKG1** | phosphorylase kinase ca | protein_coding | 0 | 1 | 1 | 2 | 1.163 |
| 5261 | NM_000294,NM_00 | **PHKG2** | phosphorylase kinase ca | protein_coding | 13 | 13 | 14 | 14 | 0.983 |
| 5262 | gene-PHKG1P3 | **PHKG1P3** | phosphorylase kinase ca | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5264 | NM_001037537,NM | **PHYH** | phytanoyl-CoA 2-hydrox | protein_coding | 3 | 3 | 4 | 4 | 0.992 |
| 5265 | NM_000295,NM_00 | **SERPINA1** | serpin family A member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5266 | NM_002638 | **PI3** | peptidase inhibitor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5267 | NM_001289032,NM | **SERPINA4** | serpin family A member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5268 | NM_002639,XM_00 | **SERPINB5** | serpin family B member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5269 | NM_001195291,NM | **SERPINB6** | serpin family B member 6 | protein_coding | 5 | 6 | 6 | 7 | 1.145 |
| 5270 | NM_001136528,NM | **SERPINE2** | serpin family E member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5271 | NM_001031848,NM | **SERPINB8** | serpin family B member 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5272 | NM_004155,XM_00 | **SERPINB9** | serpin family B member 9 | protein_coding | 180 | 179 | 181 | 180 | 0.994 |
| 5273 | NM_005024,XM_01 | **SERPINB10** | serpin family B member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5274 | NM_001122752,NM | **SERPINI1** | serpin family I member 1 | protein_coding | 7 | 7 | 8 | 8 | 0.998 |
| 5275 | NM_001307923,NM | **SERPINB13** | serpin family B member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5276 | NM_001012303,NM | **SERPINI2** | serpin family I member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5277 | NM_002641,NM_02 | **PIGA** | phosphatidylinositol glyc | protein_coding | 16 | 14 | 17 | 15 | 0.906 |
| 5278 | gene-PIGAP1 | **PIGAP1** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5279 | NM_002642,NM_15 | **PIGC** | phosphatidylinositol glyc | protein_coding | 46 | 39 | 47 | 40 | 0.845 |
| 5280 | gene-PIGCP1 | **PIGCP1** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 0.939 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5281 | NM_002643,NM_17 | **PIGF** | phosphatidylinositol glyc | protein_coding | 21 | 21 | 22 | 22 | 1.004 |
| 5282 | gene-PIGFP1 | **PIGFP1** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.224 |
| 5283 | NM_001363694,NM | **PIGH** | phosphatidylinositol glyc | protein_coding | 28 | 25 | 29 | 26 | 0.892 |
| 5284 | NM_002644,XM_01 | **PIGR** | polymeric immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 5286 | NM_001321378,NM | **PIK3C2A** | phosphatidylinositol-4-ph | protein_coding | 19 | 16 | 20 | 17 | 0.847 |
| 5287 | NM_001377334,NM | **PIK3C2B** | phosphatidylinositol-4-ph | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 5288 | NM_001288772,NM | **PIK3C2G** | phosphatidylinositol-4-ph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5289 | NM_001308020,NM | **PIK3C3** | phosphatidylinositol 3-kir | protein_coding | 6 | 6 | 7 | 7 | 0.993 |
| 5290 | NM_006218,XM_00 | **PIK3CA** | phosphatidylinositol-4,5- | protein_coding | 9 | 8 | 10 | 9 | 0.886 |
| 5291 | NM_001256045,NM | **PIK3CB** | phosphatidylinositol-4,5- | protein_coding | 14 | 13 | 15 | 14 | 0.919 |
| 5292 | NM_001243186,NM | **PIM1** | Pim-1 proto-oncogene, s | protein_coding | 269 | 244 | 270 | 245 | 0.907 |
| 5293 | NM_001350234,NM | **PIK3CD** | phosphatidylinositol-4,5- | protein_coding | 188 | 190 | 189 | 191 | 1.012 |
| 5294 | NM_001282426,NM | **PIK3CG** | phosphatidylinositol-4,5- | protein_coding | 66 | 53 | 67 | 54 | 0.799 |
| 5295 | NM_001242466,NM | **PIK3R1** | phosphoinositide-3-kinas | protein_coding | 38 | 35 | 39 | 36 | 0.942 |
| 5296 | NM_005027,NR_07 | **PIK3R2** | phosphoinositide-3-kinas | protein_coding | 16 | 16 | 17 | 17 | 1.003 |
| 5297 | NM_001362862,NM | **PI4KA** | phosphatidylinositol 4-kir | protein_coding | 31 | 29 | 32 | 30 | 0.948 |
| 5298 | NM_001198773,NM | **PI4KB** | phosphatidylinositol 4-kir | protein_coding | 49 | 47 | 50 | 48 | 0.960 |
| 5300 | NM_006221,NR_03 | **PIN1** | peptidylprolyl cis/trans is | protein_coding | 209 | 245 | 210 | 246 | 1.170 |
| 5301 | NR_023916 | **PIN1P1** | peptidylprolyl cis/trans is | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5303 | NM_001170747,NM | **PIN4** | peptidylprolyl cis/trans is | protein_coding | 46 | 45 | 47 | 46 | 0.976 |
| 5304 | NM_002652 | **PIP** | prolactin induced protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5305 | NM_001330062,NM | **PIP4K2A** | phosphatidylinositol-5-ph | protein_coding | 25 | 25 | 26 | 26 | 0.995 |
| 5306 | NM_006224,XM_01 | **PITPNA** | phosphatidylinositol tran | protein_coding | 22 | 22 | 23 | 23 | 0.975 |
| 5307 | NM_002653 | **PITX1** | paired like homeodomair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5308 | NM_000325,NM_00 | **PITX2** | paired like homeodomair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5309 | NM_005029 | **PITX3** | paired like homeodomair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5310 | NM_000296,NM_00 | **PKD1** | polycystin 1, transient re | protein_coding | 10 | 10 | 11 | 11 | 0.993 |
| 5311 | NM_000297,NR_15 | **PKD2** | polycystin 2, transient re | protein_coding | 2 | 2 | 3 | 3 | 1.125 |
| 5313 | NM_000298,NM_18 | **PKLR** | pyruvate kinase L/R | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 5314 | NM_138694,NM_17 | **PKHD1** | PKHD1 ciliary IPT domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5315 | NM_001206796,NM | **PKM** | pyruvate kinase M1/2 | protein_coding | 2,206 | 2,235 | 2,207 | 2,236 | 1.013 |
| 5316 | NM_001286258,NM | **PKNOX1** | PBX/knotted 1 homeobo | protein_coding | 12 | 12 | 13 | 13 | 1.020 |
| 5317 | NM_000299,NM_00 | **PKP1** | plakophilin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5318 | NM_001005242,NM | **PKP2** | plakophilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5319 | NM_000928 | **PLA2G1B** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5320 | NM_000300,NM_00 | **PLA2G2A** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5321 | NM_001311193,NM | **PLA2G4A** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5322 | NM_000929,XM_00 | **PLA2G5** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5324 | NM_001114634,NM | **PLAG1** | PLAG1 zinc finger | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 5325 | NM_001080951,NM | **PLAGL1** | PLAG1 like zinc finger 1 | protein_coding | 1 | 0 | 2 | 1 | 0.913 |
| 5326 | NM_002657,XM_00 | **PLAGL2** | PLAG1 like zinc finger 2 | protein_coding | 75 | 69 | 76 | 70 | 0.924 |
| 5327 | NM_000930,NM_00 | **PLAT** | plasminogen activator, ti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5328 | NM_001145031,NM | **PLAU** | plasminogen activator, u | protein_coding | 10 | 6 | 11 | 7 | 0.679 |
| 5329 | NM_001005376,NM | **PLAUR** | plasminogen activator, u | protein_coding | 1 | 1 | 2 | 2 | 0.954 |
| 5330 | NM_001284297,NM | **PLCB2** | phospholipase C beta 2 | protein_coding | 34 | 33 | 35 | 34 | 0.974 |
| 5331 | NM_000932,NM_00 | **PLCB3** | phospholipase C beta 3 | protein_coding | 2 | 2 | 3 | 3 | 0.944 |
| 5332 | NM_000933,NM_00 | **PLCB4** | phospholipase C beta 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5333 | NM_001130964,NM | **PLCD1** | phospholipase C delta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 5334 | NM_006226,XM_00 | **PLCL1** | phospholipase C like 1 (i | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5335 | NM_002660,NM_18 | **PLCG1** | phospholipase C gamma | protein_coding | 63 | 65 | 64 | 66 | 1.044 |
| 5336 | NM_002661 | **PLCG2** | phospholipase C gamma | protein_coding | 18 | 17 | 19 | 18 | 0.971 |
| 5337 | NM_001130081,NM | **PLD1** | phospholipase D1 | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 5338 | NM_001243108,NM | **PLD2** | phospholipase D2 | protein_coding | 0 | 0 | 1 | 1 | 1.177 |
| 5339 | NM_000445,NM_20 | **PLEC** | plectin | protein_coding | 4 | 4 | 5 | 5 | 0.903 |
| 5340 | NM_000301,NM_00 | **PLG** | plasminogen | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 5341 | NM_002664 | **PLEK** | pleckstrin | protein_coding | 223 | 229 | 224 | 230 | 1.027 |
| 5342 | NM_002665 | **PLGLB2** | plasminogen like B2 | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 5343 | NM_001032392 | **PLGLB1** | plasminogen like B1 | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 5345 | NM_000934,NM_00 | **SERPINF2** | serpin family F member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5346 | NM_001145311,NM | **PLIN1** | perilipin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 5347 | NM_005030 | **PLK1** | polo like kinase 1 | protein_coding | 123 | 122 | 124 | 123 | 0.988 |
| 5348 | NM_001278717,NM | **FXYD1** | FXYD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5349 | NM_001136007,NM | **FXYD3** | FXYD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5350 | NM_002667 | **PLN** | phospholamban | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5351 | NM_000302,NM_00 | **PLOD1** | procollagen-lysine,2-oxo | protein_coding | 34 | 30 | 35 | 31 | 0.887 |
| 5352 | NM_000935,NM_18 | **PLOD2** | procollagen-lysine,2-oxo | protein_coding | 1 | 0 | 2 | 1 | 0.907 |
| 5354 | NM_000533,NM_00 | **PLP1** | proteolipid protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5355 | NM_002668 | **PLP2** | proteolipid protein 2 | protein_coding | 84 | 90 | 85 | 91 | 1.067 |
| 5356 | NM_001201564,NM | **PLRG1** | pleiotropic regulator 1 | protein_coding | 47 | 45 | 48 | 46 | 0.966 |
| 5357 | NM_001145319,NM | **PLS1** | plastin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 5358 | NM_001136025,NM | **PLS3** | plastin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5359 | NM_001363872,NM | **PLSCR1** | phospholipid scramblase | protein_coding | 114 | 83 | 115 | 84 | 0.736 |
| 5360 | NM_001242920,NM | **PLTP** | phospholipid transfer pro | protein_coding | 0 | 0 | 1 | 1 | 1.145 |
| 5361 | NM_032242,XM_01 | **PLXNA1** | plexin A1 | protein_coding | 1 | 1 | 2 | 2 | 0.936 |
| 5362 | NM_025179,XM_00 | **PLXNA2** | plexin A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5364 | NM_001130082,NM | **PLXNB1** | plexin B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5365 | NM_001163257,NM | **PLXNB3** | plexin B3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5366 | NM_001382615,NM | **PMAIP1** | phorbol-12-myristate-13- | protein_coding | 95 | 75 | 96 | 76 | 0.794 |
| 5367 | NM_002674,XM_01 | **PMCH** | pro-melanin concentratin | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 5368 | NM_001284244,NM | **PNOC** | prepronociceptin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5369 | NR_003921 | **PMCHL1** | pro-melanin concentratin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5370 | NR_003922 | **PMCHL2** | pro-melanin concentratin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5371 | NM_002675,NM_03 | **PML** | PML nuclear body scaffo | protein_coding | 55 | 58 | 56 | 59 | 1.060 |
| 5372 | NM_002676,XM_00 | **PMM1** | phosphomannomutase 1 | protein_coding | 29 | 30 | 30 | 31 | 1.035 |
| 5373 | NM_000303,XM_00 | **PMM2** | phosphomannomutase 2 | protein_coding | 61 | 62 | 62 | 63 | 1.008 |
| 5375 | NM_001348381,NM | **PMP2** | peripheral myelin protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5376 | NM_000304,NM_00 | **PMP22** | peripheral myelin protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5378 | NM_000534,NM_00 | **PMS1** | PMS1 homolog 1, misma | protein_coding | 48 | 45 | 49 | 46 | 0.941 |
| 5379 | NR_003613 | **PMS2P1** | PMS1 homolog 2, misma | transcribed_pseu | 47 | 50 | 48 | 51 | 1.056 |
| 5380 | NR_003614 | **PMS2P2** | PMS1 homolog 2, misma | transcribed_pseu | 5 | 5 | 6 | 6 | 0.926 |
| 5382 | NR_022007,NR_04 | **PMS2P4** | PMS1 homolog 2, misma | transcribed_pseu | 9 | 9 | 10 | 10 | 1.044 |
| 5383 | NR_027775,NR_02 | **PMS2P5** | PMS1 homolog 2, misma | transcribed_pseu | 16 | 13 | 17 | 14 | 0.827 |
| 5387 | NR_028059 | **PMS2P3** | PMS1 homolog 2, misma | transcribed_pseu | 13 | 13 | 14 | 14 | 0.976 |
| 5393 | NM_001034194,NM | **EXOSC9** | exosome component 9 | protein_coding | 77 | 71 | 78 | 72 | 0.919 |
| 5394 | NM_001001998,NM | **EXOSC10** | exosome component 10 | protein_coding | 94 | 83 | 95 | 84 | 0.887 |
| 5395 | NM_000535,NM_00 | **PMS2** | PMS1 homolog 2, misma | protein_coding | 15 | 14 | 16 | 15 | 0.943 |
| 5396 | NM_006902,NM_02 | **PRRX1** | paired related homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5406 | NM_000936 | **PNLIP** | pancreatic lipase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5407 | NM_001303135,NM | **PNLIPRP1** | pancreatic lipase related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5408 | NR_103727 | **PNLIPRP2** | pancreatic lipase related | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5409 | NM_002686,NR_07 | **PNMT** | phenylethanolamine N-m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5411 | NM_002687 | **PNN** | pinin, desmosome assoc | protein_coding | 149 | 146 | 150 | 147 | 0.982 |
| 5412 | NM_007106 | **UBL3** | ubiquitin like 3 | protein_coding | 8 | 8 | 9 | 9 | 0.923 |
| 5413 | NM_001009939,NM | **SEPTIN5** | septin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5414 | NM_001038704,NM | **SEPTIN4** | septin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5420 | NM_001018111,NM | **PODXL** | podocalyxin like | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 5422 | NM_001330360,NM | **POLA1** | DNA polymerase alpha 1 | protein_coding | 47 | 42 | 48 | 43 | 0.890 |
| 5423 | NM_002690,XM_00 | **POLB** | DNA polymerase beta | protein_coding | 55 | 55 | 56 | 56 | 1.011 |
| 5424 | NM_001256849,NM | **POLD1** | DNA polymerase delta 1, | protein_coding | 93 | 98 | 94 | 99 | 1.048 |
| 5425 | NM_001127218,NM | **POLD2** | DNA polymerase delta 2, | protein_coding | 91 | 91 | 92 | 92 | 0.997 |
| 5426 | NM_006231,XM_01 | **POLE** | DNA polymerase epsilon | protein_coding | 23 | 21 | 24 | 22 | 0.918 |
| 5427 | NM_001197330,NM | **POLE2** | DNA polymerase epsilon | protein_coding | 22 | 20 | 23 | 21 | 0.912 |
| 5428 | NM_001126131,NM | **POLG** | DNA polymerase gamma | protein_coding | 55 | 52 | 56 | 53 | 0.948 |
| 5429 | NM_001291969,NM | **POLH** | DNA polymerase eta | protein_coding | 22 | 18 | 23 | 19 | 0.849 |
| 5430 | NM_000937 | **POLR2A** | RNA polymerase II subu | protein_coding | 64 | 67 | 65 | 68 | 1.033 |
| 5431 | NM_000938,NM_00 | **POLR2B** | RNA polymerase II subu | protein_coding | 133 | 120 | 134 | 121 | 0.905 |
| 5432 | NM_032940 | **POLR2C** | RNA polymerase II subu | protein_coding | 128 | 128 | 129 | 129 | 1.004 |
| 5433 | NM_004805 | **POLR2D** | RNA polymerase II subu | protein_coding | 80 | 76 | 81 | 77 | 0.950 |
| 5434 | NM_001316323,NM | **POLR2E** | RNA polymerase II subu | protein_coding | 140 | 145 | 141 | 146 | 1.035 |
| 5435 | NM_001301129,NM | **POLR2F** | RNA polymerase II subu | protein_coding | 68 | 74 | 69 | 75 | 1.085 |
| 5436 | NM_002696 | **POLR2G** | RNA polymerase II subu | protein_coding | 194 | 186 | 195 | 187 | 0.959 |
| 5437 | NM_001278698,NM | **POLR2H** | RNA polymerase II subu | protein_coding | 134 | 130 | 135 | 131 | 0.966 |
| 5438 | NM_006233 | **POLR2I** | RNA polymerase II subu | protein_coding | 111 | 134 | 112 | 135 | 1.206 |
| 5439 | NM_001371100,NM | **POLR2J** | RNA polymerase II subu | protein_coding | 105 | 114 | 106 | 115 | 1.087 |
| 5440 | NM_005034 | **POLR2K** | RNA polymerase II subu | protein_coding | 195 | 183 | 196 | 184 | 0.941 |
| 5441 | NM_021128 | **POLR2L** | RNA polymerase II subu | protein_coding | 171 | 193 | 172 | 194 | 1.131 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5442 | NM_005035,XM_00 | **POLRMT** | RNA polymerase mitochc | protein_coding | 59 | 64 | 60 | 65 | 1.073 |
| 5443 | NM_000939,NM_00 | **POMC** | proopiomelanocortin | protein_coding | 15 | 19 | 16 | 20 | 1.238 |
| 5444 | NM_000446 | **PON1** | paraoxonase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5445 | NM_000305,NM_00 | **PON2** | paraoxonase 2 | protein_coding | 22 | 21 | 23 | 22 | 0.931 |
| 5446 | NM_000940 | **PON3** | paraoxonase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5447 | NM_000941,NM_00 | **POR** | cytochrome p450 oxidore | protein_coding | 44 | 38 | 45 | 39 | 0.865 |
| 5449 | NM_000306,NM_00 | **POU1F1** | POU class 1 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5450 | NM_006235,XM_00 | **POU2AF1** | POU class 2 homeobox a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5451 | NM_001198783,NM | **POU2F1** | POU class 2 homeobox 1 | protein_coding | 14 | 11 | 15 | 12 | 0.782 |
| 5452 | NM_001207025,NM | **POU2F2** | POU class 2 homeobox 2 | protein_coding | 4 | 3 | 5 | 4 | 0.918 |
| 5453 | NM_002699 | **POU3F1** | POU class 3 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5454 | NM_005604 | **POU3F2** | POU class 3 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5455 | NM_006236 | **POU3F3** | POU class 3 homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5456 | NM_000307 | **POU3F4** | POU class 3 homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5457 | NM_006237 | **POU4F1** | POU class 4 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5458 | NM_004575 | **POU4F2** | POU class 4 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5459 | NM_002700 | **POU4F3** | POU class 4 homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.094 |
| 5460 | NM_001173531,NM | **POU5F1** | POU class 5 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5462 | NM_001159542 | **POU5F1B** | POU class 5 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5463 | NM_001330422,NM | **POU6F1** | POU class 6 homeobox 1 | protein_coding | 1 | 0 | 2 | 1 | 0.739 |
| 5464 | NM_021129,XR_002 | **PPA1** | inorganic pyrophosphata | protein_coding | 462 | 326 | 463 | 327 | 0.707 |
| 5465 | NM_001001928,NM | **PPARA** | peroxisome proliferator a | protein_coding | 1 | 1 | 2 | 2 | 0.946 |
| 5467 | NM_001171818,NM | **PPARD** | peroxisome proliferator a | protein_coding | 18 | 16 | 19 | 17 | 0.901 |
| 5468 | NM_001330615,NM | **PPARG** | peroxisome proliferator a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5469 | NM_004774,XM_00 | **MED1** | mediator complex subun | protein_coding | 83 | 66 | 84 | 67 | 0.796 |
| 5470 | NM_006239,XM_01 | **PPEF2** | protein phosphatase with | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5471 | NM_002703,NR_15 | **PPAT** | phosphoribosyl pyrophos | protein_coding | 96 | 81 | 97 | 82 | 0.841 |
| 5473 | NM_002704 | **PPBP** | pro-platelet basic protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5475 | NM_001377986,NM | **PPEF1** | protein phosphatase with | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5476 | NM_000308,NM_00 | **CTSA** | cathepsin A | protein_coding | 86 | 82 | 87 | 83 | 0.957 |
| 5478 | NM_001300981,NM | **PPIA** | peptidylprolyl isomerase | protein_coding | 1,229 | 1,211 | 1,230 | 1,212 | 0.985 |
| 5479 | NM_000942 | **PPIB** | peptidylprolyl isomerase | protein_coding | 1,137 | 1,201 | 1,138 | 1,202 | 1.056 |
| 5480 | NM_000943 | **PPIC** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5481 | NM_005038 | **PPID** | peptidylprolyl isomerase | protein_coding | 31 | 25 | 32 | 26 | 0.827 |
| 5483 | gene-PPIAP11 | **PPIAP11** | peptidylprolyl isomerase | pseudogene | 1 | 2 | 2 | 3 | 1.491 |
| 5485 | gene-PPIAP13 | **PPIAP13** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5486 | gene-PPIAP14 | **PPIAP14** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5487 | gene-PPIAP15 | **PPIAP15** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 5488 | gene-PPIAP16 | **PPIAP16** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5489 | gene-PPIAP7 | **PPIAP7** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5491 | gene-PPIAP9 | **PPIAP9** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5493 | NM_002705,XM_00 | **PPL** | periplakin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5494 | NM_021003,NM_17 | **PPM1A** | protein phosphatase, Mg | protein_coding | 17 | 15 | 18 | 16 | 0.871 |
| 5495 | NM_001033557,NM | **PPM1B** | protein phosphatase, Mg | protein_coding | 55 | 51 | 56 | 52 | 0.940 |
| 5496 | NM_177983 | **PPM1G** | protein phosphatase, Mg | protein_coding | 320 | 327 | 321 | 328 | 1.023 |
| 5498 | NM_000309,NM_00 | **PPOX** | protoporphyrinogen oxid | protein_coding | 12 | 11 | 13 | 12 | 0.944 |
| 5499 | NM_001008709,NM | **PPP1CA** | protein phosphatase 1 ca | protein_coding | 398 | 439 | 399 | 440 | 1.104 |
| 5500 | NM_002709,NM_20 | **PPP1CB** | protein phosphatase 1 ca | protein_coding | 103 | 94 | 104 | 95 | 0.914 |
| 5501 | NM_001244974,NM | **PPP1CC** | protein phosphatase 1 ca | protein_coding | 334 | 298 | 335 | 299 | 0.891 |
| 5502 | NM_006741,XM_00 | **PPP1R1A** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5504 | NM_001291504,NM | **PPP1R2** | protein phosphatase 1 re | protein_coding | 32 | 30 | 33 | 31 | 0.945 |
| 5506 | NM_002711,XM_00 | **PPP1R3A** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5507 | NM_005398 | **PPP1R3C** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5509 | NM_006242 | **PPP1R3D** | protein phosphatase 1 re | protein_coding | 3 | 3 | 4 | 4 | 1.115 |
| 5510 | NM_001282409,NM | **PPP1R7** | protein phosphatase 1 re | protein_coding | 197 | 204 | 198 | 205 | 1.036 |
| 5511 | NM_002713,NM_01 | **PPP1R8** | protein phosphatase 1 re | protein_coding | 146 | 135 | 147 | 136 | 0.929 |
| 5512 | gene-PPP1R8P1 | **PPP1R8P1** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5514 | NM_001376195,NM | **PPP1R10** | protein phosphatase 1 re | protein_coding | 45 | 44 | 46 | 45 | 0.987 |
| 5515 | NM_001355019,NM | **PPP2CA** | protein phosphatase 2 ca | protein_coding | 166 | 163 | 167 | 164 | 0.984 |
| 5516 | NM_001009552 | **PPP2CB** | protein phosphatase 2 ca | protein_coding | 149 | 151 | 150 | 152 | 1.010 |
| 5517 | gene-PPP2CBP1 | **PPP2CBP1** | protein phosphatase 2 ca | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 5518 | NM_001363656,NM | **PPP2R1A** | protein phosphatase 2 sc | protein_coding | 79 | 84 | 80 | 85 | 1.067 |
| 5519 | NM_001177562,NM | **PPP2R1B** | protein phosphatase 2 sc | protein_coding | 80 | 82 | 81 | 83 | 1.025 |
| 5520 | NM_001177591,NM | **PPP2R2A** | protein phosphatase 2 re | protein_coding | 38 | 35 | 39 | 36 | 0.923 |
| 5521 | NM_001271899,NM | **PPP2R2B** | protein phosphatase 2 re | protein_coding | 12 | 13 | 13 | 14 | 1.096 |
| 5522 | NM_001206994,NM | **PPP2R2C** | protein phosphatase 2 re | protein_coding | 0 | 0 | 1 | 1 | 1.176 |
| 5523 | NM_001190447,NM | **PPP2R3A** | protein phosphatase 2 re | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 5524 | NM_001193397,NM | **PTPA** | protein phosphatase 2 pl | protein_coding | 102 | 102 | 103 | 103 | 1.001 |
| 5525 | NM_001199756,NM | **PPP2R5A** | protein phosphatase 2 re | protein_coding | 45 | 41 | 46 | 42 | 0.918 |
| 5526 | NM_006244,XM_01 | **PPP2R5B** | protein phosphatase 2 re | protein_coding | 5 | 5 | 6 | 6 | 1.088 |
| 5527 | NM_001161725,NM | **PPP2R5C** | protein phosphatase 2 re | protein_coding | 54 | 56 | 55 | 57 | 1.045 |
| 5528 | NM_001270476,NM | **PPP2R5D** | protein phosphatase 2 re | protein_coding | 48 | 46 | 49 | 47 | 0.969 |
| 5529 | NM_001282179,NM | **PPP2R5E** | protein phosphatase 2 re | protein_coding | 42 | 38 | 43 | 39 | 0.906 |
| 5530 | NM_000944,NM_00 | **PPP3CA** | protein phosphatase 3 ca | protein_coding | 27 | 23 | 28 | 24 | 0.864 |
| 5531 | NM_001303503,NM | **PPP4C** | protein phosphatase 4 ca | protein_coding | 209 | 225 | 210 | 226 | 1.078 |
| 5532 | NM_001142353,NM | **PPP3CB** | protein phosphatase 3 ca | protein_coding | 37 | 33 | 38 | 34 | 0.891 |
| 5533 | NM_001243974,NM | **PPP3CC** | protein phosphatase 3 ca | protein_coding | 35 | 34 | 36 | 35 | 0.972 |
| 5534 | NM_000945 | **PPP3R1** | protein phosphatase 3 re | protein_coding | 77 | 77 | 78 | 78 | 0.993 |
| 5535 | NM_147180 | **PPP3R2** | protein phosphatase 3 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5536 | NM_001204284,NM | **PPP5C** | protein phosphatase 5 ca | protein_coding | 154 | 153 | 155 | 154 | 0.998 |
| 5537 | NM_001123355,NM | **PPP6C** | protein phosphatase 6 ca | protein_coding | 48 | 43 | 49 | 44 | 0.897 |
| 5538 | NM_000310,NM_00 | **PPT1** | palmitoyl-protein thioeste | protein_coding | 255 | 237 | 256 | 238 | 0.930 |
| 5539 | NM_001319209,NM | **PPY** | pancreatic polypeptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5540 | NM_001278794,NM | **NPY4R** | neuropeptide Y receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5542 | NR_160307 | **PRB1** | proline rich protein BstNI | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5544 | NM_006249 | **PRB3** | proline rich protein BstNI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5545 | NM_001261399,NM | **PRB4** | proline rich protein BstNI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5546 | NM_005973,XM_00 | **PRCC** | proline rich mitotic check | protein_coding | 121 | 121 | 122 | 122 | 1.007 |
| 5547 | NM_001319214,NM | **PRCP** | prolylcarboxypeptidase | protein_coding | 12 | 10 | 13 | 11 | 0.874 |
| 5549 | NM_002725,NM_20 | **PRELP** | proline and arginine rich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5550 | NM_002726,XM_00 | **PREP** | prolyl endopeptidase | protein_coding | 31 | 31 | 32 | 32 | 0.994 |
| 5551 | NM_001083116,NM | **PRF1** | perforin 1 | protein_coding | 442 | 473 | 443 | 474 | 1.072 |
| 5552 | NM_001321053,NM | **SRGN** | serglycin | protein_coding | 679 | 626 | 680 | 627 | 0.922 |
| 5553 | NM_001243245,NM | **PRG2** | proteoglycan 2, pro eosir | protein_coding | 2 | 2 | 3 | 3 | 0.996 |
| 5554 | NM_001291314,NM | **PRH1** | proline rich protein HaeII | protein_coding | 2 | 2 | 3 | 3 | 1.013 |
| 5555 | NM_001110213 | **PRH2** | proline rich protein HaeII | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 5557 | NM_000946 | **PRIM1** | DNA primase subunit 1 | protein_coding | 79 | 69 | 80 | 70 | 0.871 |
| 5558 | NM_000947,NM_00 | **PRIM2** | DNA primase subunit 2 | protein_coding | 45 | 40 | 46 | 41 | 0.898 |
| 5562 | NM_001355028,NM | **PRKAA1** | protein kinase AMP-activ | protein_coding | 46 | 40 | 47 | 41 | 0.880 |
| 5563 | NM_006252,XM_01 | **PRKAA2** | protein kinase AMP-activ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5564 | NM_006253,XM_00 | **PRKAB1** | protein kinase AMP-activ | protein_coding | 21 | 22 | 22 | 23 | 1.046 |
| 5565 | NM_005399,NR_10 | **PRKAB2** | protein kinase AMP-activ | protein_coding | 9 | 8 | 10 | 9 | 0.938 |
| 5566 | NM_001304349,NM | **PRKACA** | protein kinase cAMP-acti | protein_coding | 26 | 24 | 27 | 25 | 0.930 |
| 5567 | NM_001242857,NM | **PRKACB** | protein kinase cAMP-acti | protein_coding | 123 | 111 | 124 | 112 | 0.905 |
| 5568 | NM_002732 | **PRKACG** | protein kinase cAMP-acti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5569 | NM_006823,NM_18 | **PKIA** | cAMP-dependent protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5570 | NM_001270393,NM | **PKIB** | cAMP-dependent protein | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 5571 | NM_001206709,NM | **PRKAG1** | protein kinase AMP-activ | protein_coding | 63 | 61 | 64 | 62 | 0.980 |
| 5573 | NM_001276289,NM | **PRKAR1A** | protein kinase cAMP-dep | protein_coding | 195 | 164 | 196 | 165 | 0.840 |
| 5574 | gene-PRKAR1AP1 | **PRKAR1AP1** | protein kinase cAMP-dep | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5575 | NM_001164758,NM | **PRKAR1B** | protein kinase cAMP-dep | protein_coding | 63 | 70 | 64 | 71 | 1.100 |
| 5576 | NM_001321982,NM | **PRKAR2A** | protein kinase cAMP-dep | protein_coding | 26 | 24 | 27 | 25 | 0.937 |
| 5577 | NM_002736,XM_01 | **PRKAR2B** | protein kinase cAMP-dep | protein_coding | 5 | 4 | 6 | 5 | 0.898 |
| 5578 | NM_002737,XM_01 | **PRKCA** | protein kinase C alpha | protein_coding | 29 | 28 | 30 | 29 | 0.969 |
| 5579 | NM_002738,NM_21 | **PRKCB** | protein kinase C beta | protein_coding | 79 | 68 | 80 | 69 | 0.868 |
| 5580 | NM_001316327,NM | **PRKCD** | protein kinase C delta | protein_coding | 13 | 15 | 14 | 16 | 1.175 |
| 5581 | NM_005400,XM_00 | **PRKCE** | protein kinase C epsilon | protein_coding | 1 | 0 | 2 | 1 | 0.911 |
| 5582 | NM_001316329,NM | **PRKCG** | protein kinase C gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5583 | NM_006255,XM_01 | **PRKCH** | protein kinase C eta | protein_coding | 228 | 223 | 229 | 224 | 0.981 |
| 5584 | NM_002740,XM_01 | **PRKCI** | protein kinase C iota | protein_coding | 11 | 11 | 12 | 12 | 0.951 |
| 5585 | NM_002741,NM_21 | **PKN1** | protein kinase N1 | protein_coding | 74 | 79 | 75 | 80 | 1.071 |
| 5586 | NM_001320707,NM | **PKN2** | protein kinase N2 | protein_coding | 13 | 11 | 14 | 12 | 0.857 |
| 5587 | NM_001330069,NM | **PRKD1** | protein kinase D1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5588 | NM_001242413,NM | **PRKCQ** | protein kinase C theta | protein_coding | 62 | 60 | 63 | 61 | 0.979 |
| 5589 | NM_001001329,NM | **PRKCSH** | protein kinase C substra | protein_coding | 206 | 214 | 207 | 215 | 1.036 |
| 5590 | NM_001033581,NM | **PRKCZ** | protein kinase C zeta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5591 | NM_001081640,NM | **PRKDC** | protein kinase, DNA-acti | protein_coding | 196 | 159 | 197 | 160 | 0.811 |
| 5592 | NM_001098512,NM | **PRKG1** | protein kinase cGMP-de | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 5593 | NM_001282480,NM | **PRKG2** | protein kinase cGMP-de | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5594 | NM_002745,NM_13 | **MAPK1** | mitogen-activated protei | protein_coding | 88 | 81 | 89 | 82 | 0.927 |
| 5595 | NM_001040056,NM | **MAPK3** | mitogen-activated protei | protein_coding | 32 | 32 | 33 | 33 | 0.990 |
| 5596 | NM_001292039,NM | **MAPK4** | mitogen-activated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5597 | NM_002748,XM_00 | **MAPK6** | mitogen-activated protei | protein_coding | 112 | 97 | 113 | 98 | 0.872 |
| 5598 | NM_002749,NM_13 | **MAPK7** | mitogen-activated protei | protein_coding | 6 | 8 | 7 | 9 | 1.272 |
| 5599 | NM_001278547,NM | **MAPK8** | mitogen-activated protei | protein_coding | 9 | 8 | 10 | 9 | 0.911 |
| 5600 | NM_002751,NR_11 | **MAPK11** | mitogen-activated protei | protein_coding | 13 | 12 | 14 | 13 | 0.928 |
| 5601 | NM_001135044,NM | **MAPK9** | mitogen-activated protei | protein_coding | 25 | 22 | 26 | 23 | 0.880 |
| 5602 | NM_001318067,NM | **MAPK10** | mitogen-activated protei | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 5603 | NM_002754,NR_07 | **MAPK13** | mitogen-activated protei | protein_coding | 3 | 2 | 4 | 3 | 0.868 |
| 5604 | NM_002755,XM_01 | **MAP2K1** | mitogen-activated protei | protein_coding | 82 | 76 | 83 | 77 | 0.928 |
| 5605 | NM_030662,XM_00 | **MAP2K2** | mitogen-activated protei | protein_coding | 205 | 210 | 206 | 211 | 1.020 |
| 5606 | NM_001316332,NM | **MAP2K3** | mitogen-activated protei | protein_coding | 83 | 83 | 84 | 84 | 1.003 |
| 5607 | NM_001206804,NM | **MAP2K5** | mitogen-activated protei | protein_coding | 12 | 11 | 13 | 12 | 0.948 |
| 5608 | NM_001330450,NM | **MAP2K6** | mitogen-activated protei | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 5609 | NM_001297555,NM | **MAP2K7** | mitogen-activated protei | protein_coding | 33 | 34 | 34 | 35 | 1.036 |
| 5610 | NM_001135651,NM | **EIF2AK2** | eukaryotic translation init | protein_coding | 48 | 35 | 49 | 36 | 0.735 |
| 5611 | NM_006260,XM_01 | **DNAJC3** | DnaJ heat shock protein | protein_coding | 45 | 40 | 46 | 41 | 0.893 |
| 5612 | NM_004705,NR_13 | **THAP12** | THAP domain containing | protein_coding | 111 | 102 | 112 | 103 | 0.912 |
| 5613 | NM_005044 | **PRKX** | protein kinase X-linked | protein_coding | 5 | 4 | 6 | 5 | 0.860 |
| 5615 | gene-PRKXP2 | **PRKXP2** | PRKX pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.945 |
| 5616 | NR_028062 | **PRKY** | protein kinase Y-linked (p | transcribed_pseu | 4 | 4 | 5 | 5 | 0.934 |
| 5617 | NM_000948,NM_00 | **PRL** | prolactin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5618 | NM_000949,NM_00 | **PRLR** | prolactin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5619 | NM_002761 | **PRM1** | protamine 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5620 | NM_001286356,NM | **PRM2** | protamine 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5621 | NM_000311,NM_00 | **PRNP** | prion protein | protein_coding | 82 | 69 | 83 | 70 | 0.847 |
| 5623 | NM_004158 | **PSPN** | persephin | protein_coding | 0 | 0 | 1 | 1 | 1.113 |
| 5624 | NM_000312,NM_00 | **PROC** | protein C, inactivator of c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5625 | NM_001195226,NM | **PRODH** | proline dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5626 | NM_006261 | **PROP1** | PROP paired-like homeo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5627 | NM_000313,NM_00 | **PROS1** | protein S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5629 | NM_001270616,NM | **PROX1** | prospero homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5630 | NM_006262,XM_00 | **PRPH** | peripherin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5631 | NM_001204402,NM | **PRPS1** | phosphoribosyl pyrophos | protein_coding | 167 | 160 | 168 | 161 | 0.956 |
| 5634 | NM_001039091,NM | **PRPS2** | phosphoribosyl pyrophos | protein_coding | 69 | 63 | 70 | 64 | 0.914 |
| 5635 | NM_001330503,NM | **PRPSAP1** | phosphoribosyl pyrophos | protein_coding | 20 | 25 | 21 | 26 | 1.212 |
| 5636 | NM_001243936,NM | **PRPSAP2** | phosphoribosyl pyrophos | protein_coding | 31 | 28 | 32 | 29 | 0.920 |
| 5638 | NM_000950,NM_00 | **PRRG1** | proline rich and Gla dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5639 | NM_000951,NM_00 | **PRRG2** | proline rich and Gla dom | protein_coding | 2 | 2 | 3 | 3 | 1.111 |
| 5641 | NM_001008530,NM | **LGMN** | legumain | protein_coding | 0 | 1 | 1 | 2 | 1.024 |
| 5644 | NM_002769,XM_01 | **PRSS1** | serine protease 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5645 | NM_001303414,NM | **PRSS2** | serine protease 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5646 | NM_001197097,NM | **PRSS3** | serine protease 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5648 | NM_001031849,NM | **MASP1** | mannan binding lectin se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5649 | NM_005045,NM_17 | **RELN** | reelin | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 5650 | NM_001207053,NM | **KLK7** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5651 | NM_002772,XM_01 | **TMPRSS15** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5652 | NM_002773 | **PRSS8** | serine protease 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5653 | NM_001012964,NM | **KLK6** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5654 | NM_002775 | **HTRA1** | HtrA serine peptidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5655 | NM_001077500,NM | **KLK10** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5657 | NM_002777,XM_01 | **PRTN3** | proteinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5660 | NM_001042465,NM | **PSAP** | prosaposin | protein_coding | 33 | 35 | 34 | 36 | 1.057 |
| 5662 | NM_001270965,NM | **PSD** | pleckstrin and Sec7 dom | protein_coding | 0 | 0 | 1 | 1 | 1.129 |
| 5663 | NM_000021,NM_00 | **PSEN1** | presenilin 1 | protein_coding | 23 | 19 | 24 | 20 | 0.834 |
| 5664 | NM_000447,NM_01 | **PSEN2** | presenilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 5669 | NM_001184825,NM | **PSG1** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5670 | NM_031246 | **PSG2** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5671 | NM_021016,XM_01 | **PSG3** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5672 | NM_001276495,NM | **PSG4** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5673 | NM_001130014,NM | **PSG5** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5675 | NM_001031850,NM | **PSG6** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5676 | NM_001206650,NM | **PSG7** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5678 | NM_001301707,NM | **PSG9** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5680 | NM_001113410,NM | **PSG11** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5681 | NM_006742 | **PSKH1** | protein serine kinase H1 | protein_coding | 13 | 13 | 14 | 14 | 1.012 |
| 5682 | NM_001143937,NM | **PSMA1** | proteasome 20S subunit | protein_coding | 532 | 508 | 533 | 509 | 0.955 |
| 5683 | NM_002787 | **PSMA2** | proteasome 20S subunit | protein_coding | 196 | 195 | 197 | 196 | 0.993 |
| 5684 | NM_002788,NM_15 | **PSMA3** | proteasome 20S subunit | protein_coding | 334 | 316 | 335 | 317 | 0.947 |
| 5685 | NM_001102667,NM | **PSMA4** | proteasome 20S subunit | protein_coding | 254 | 189 | 255 | 190 | 0.743 |
| 5686 | NM_001199772,NM | **PSMA5** | proteasome 20S subunit | protein_coding | 145 | 140 | 146 | 141 | 0.966 |
| 5687 | NM_001282232,NM | **PSMA6** | proteasome 20S subunit | protein_coding | 298 | 275 | 299 | 276 | 0.924 |
| 5688 | NM_002792 | **PSMA7** | proteasome 20S subunit | protein_coding | 1,029 | 1,089 | 1,030 | 1,090 | 1.058 |
| 5689 | NM_002793 | **PSMB1** | proteasome 20S subunit | protein_coding | 386 | 398 | 387 | 399 | 1.032 |
| 5690 | NM_001199779,NM | **PSMB2** | proteasome 20S subunit | protein_coding | 174 | 174 | 175 | 175 | 1.000 |
| 5691 | NM_002795,NR_10 | **PSMB3** | proteasome 20S subunit | protein_coding | 526 | 540 | 527 | 541 | 1.027 |
| 5692 | NM_002796 | **PSMB4** | proteasome 20S subunit | protein_coding | 590 | 589 | 591 | 590 | 0.998 |
| 5693 | NM_001130725,NM | **PSMB5** | proteasome 20S subunit | protein_coding | 145 | 152 | 146 | 153 | 1.045 |
| 5694 | NM_001270481,NM | **PSMB6** | proteasome 20S subunit | protein_coding | 184 | 183 | 185 | 184 | 0.998 |
| 5695 | NM_002799 | **PSMB7** | proteasome 20S subunit | protein_coding | 320 | 315 | 321 | 316 | 0.985 |
| 5696 | NM_004159,NM_14 | **PSMB8** | proteasome 20S subunit | protein_coding | 558 | 566 | 559 | 567 | 1.014 |
| 5697 | NM_004160 | **PYY** | peptide YY | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5698 | NM_002800 | **PSMB9** | proteasome 20S subunit | protein_coding | 374 | 406 | 375 | 407 | 1.086 |
| 5699 | NM_002801 | **PSMB10** | proteasome 20S subunit | protein_coding | 238 | 254 | 239 | 255 | 1.067 |
| 5700 | NM_001330212,NM | **PSMC1** | proteasome 26S subunit | protein_coding | 68 | 69 | 69 | 70 | 1.028 |
| 5701 | NM_001204453,NM | **PSMC2** | proteasome 26S subunit | protein_coding | 140 | 131 | 141 | 132 | 0.936 |
| 5702 | NM_002804,XM_01 | **PSMC3** | proteasome 26S subunit | protein_coding | 318 | 326 | 319 | 327 | 1.024 |
| 5703 | gene-PSMC3P1 | **PSMC3P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5704 | NM_006503,NM_15 | **PSMC4** | proteasome 26S subunit | protein_coding | 187 | 199 | 188 | 200 | 1.064 |
| 5705 | NM_001199163,NM | **PSMC5** | proteasome 26S subunit | protein_coding | 341 | 347 | 342 | 348 | 1.016 |
| 5706 | NM_001366414,NM | **PSMC6** | proteasome 26S subunit | protein_coding | 102 | 102 | 103 | 103 | 0.995 |
| 5707 | NM_001191037,NM | **PSMD1** | proteasome 26S subunit | protein_coding | 216 | 192 | 217 | 193 | 0.889 |
| 5708 | NM_001278708,NM | **PSMD2** | proteasome 26S subunit | protein_coding | 329 | 335 | 330 | 336 | 1.019 |
| 5709 | NM_002809 | **PSMD3** | proteasome 26S subunit | protein_coding | 269 | 267 | 270 | 268 | 0.994 |
| 5710 | NM_001330692,NM | **PSMD4** | proteasome 26S subunit | protein_coding | 323 | 356 | 324 | 357 | 1.102 |
| 5711 | NM_001270427,NM | **PSMD5** | proteasome 26S subunit | protein_coding | 54 | 49 | 55 | 50 | 0.920 |
| 5713 | NM_002811 | **PSMD7** | proteasome 26S subunit | protein_coding | 292 | 270 | 293 | 271 | 0.926 |
| 5714 | NM_002812 | **PSMD8** | proteasome 26S subunit | protein_coding | 325 | 338 | 326 | 339 | 1.040 |
| 5715 | NM_001261400,NM | **PSMD9** | proteasome 26S subunit | protein_coding | 38 | 41 | 39 | 42 | 1.075 |
| 5716 | NM_002814,NM_17 | **PSMD10** | proteasome 26S subunit | protein_coding | 49 | 44 | 50 | 45 | 0.891 |
| 5717 | NM_001270482,NM | **PSMD11** | proteasome 26S subunit | protein_coding | 136 | 127 | 137 | 128 | 0.935 |
| 5718 | NM_001316341,NM | **PSMD12** | proteasome 26S subunit | protein_coding | 78 | 70 | 79 | 71 | 0.902 |
| 5719 | NM_002817,NM_17 | **PSMD13** | proteasome 26S subunit | protein_coding | 310 | 293 | 311 | 294 | 0.947 |
| 5720 | NM_001281528,NM | **PSME1** | proteasome activator sut | protein_coding | 541 | 548 | 542 | 549 | 1.014 |
| 5721 | NM_002818,XM_00 | **PSME2** | proteasome activator sut | protein_coding | 973 | 959 | 974 | 960 | 0.986 |
| 5723 | NM_001370503,NM | **PSPH** | phosphoserine phosphat | protein_coding | 19 | 20 | 20 | 21 | 1.089 |
| 5724 | NM_000952,NM_00 | **PTAFR** | platelet activating factor | protein_coding | 4 | 4 | 5 | 5 | 0.985 |
| 5725 | NM_002819,NM_03 | **PTBP1** | polypyrimidine tract bind | protein_coding | 419 | 398 | 420 | 399 | 0.952 |
| 5726 | NM_176817 | **TAS2R38** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.088 |
| 5727 | NM_000264,NM_00 | **PTCH1** | patched 1 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 5728 | NM_000314,NM_00 | **PTEN** | phosphatase and tensin | protein_coding | 29 | 28 | 30 | 29 | 0.954 |
| 5729 | NM_000953,NM_00 | **PTGDR** | prostaglandin D2 recepto | protein_coding | 8 | 7 | 9 | 8 | 0.970 |
| 5730 | NM_000954 | **PTGDS** | prostaglandin D2 syntha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5731 | NM_000955 | **PTGER1** | prostaglandin E receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5732 | NM_000956 | **PTGER2** | prostaglandin E receptor | protein_coding | 99 | 91 | 100 | 92 | 0.919 |
| 5733 | NM_001126044,NM | **PTGER3** | prostaglandin E receptor | protein_coding | 26 | 30 | 27 | 31 | 1.142 |
| 5734 | NM_000958,XM_01 | **PTGER4** | prostaglandin E receptor | protein_coding | 22 | 20 | 23 | 21 | 0.886 |
| 5737 | NM_000959,NM_00 | **PTGFR** | prostaglandin F receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5738 | NM_020440,XM_01 | **PTGFRN** | prostaglandin F2 recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5739 | NM_000960,XM_00 | **PTGIR** | prostaglandin I2 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5740 | NM_000961 | **PTGIS** | prostaglandin I2 synthas | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 5741 | NM_000315,NM_00 | **PTH** | parathyroid hormone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5742 | NM_000962,NM_00 | **PTGS1** | prostaglandin-endopero> | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 5743 | NM_000963 | **PTGS2** | prostaglandin-endopero> | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5744 | NM_002820,NM_19 | **PTHLH** | parathyroid hormone like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5745 | NM_000316,NM_00 | **PTH1R** | parathyroid hormone 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5746 | NM_001309516,NM | **PTH2R** | parathyroid hormone 2 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5747 | NM_001199649,NM | **PTK2** | protein tyrosine kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5753 | NM_001256358,NM | **PTK6** | protein tyrosine kinase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5754 | NM_001270398,NM | **PTK7** | protein tyrosine kinase 7 | protein_coding | 1 | 2 | 2 | 3 | 1.249 |
| 5756 | NM_001242397,NM | **TWF1** | twinfilin actin binding pro | protein_coding | 39 | 36 | 40 | 37 | 0.914 |
| 5757 | NM_001099285,NM | **PTMA** | prothymosin alpha | protein_coding | 8,584 | 8,792 | 8,585 | 8,793 | 1.024 |
| 5763 | NM_001330333,NM | **PTMS** | parathymosin | protein_coding | 29 | 34 | 30 | 35 | 1.168 |
| 5764 | NM_001321386,NM | **PTN** | pleiotrophin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5767 | gene-PTP4A2P1 | **PTP4A2P1** | PTP4A2 pseudogene 1 | pseudogene | 1 | 2 | 2 | 3 | 1.268 |
| 5768 | NM_001004128,NM | **QSOX1** | quiescin sulfhydryl oxida | protein_coding | 35 | 23 | 36 | 24 | 0.664 |
| 5769 | gene-PTP4A2P2 | **PTP4A2P2** | PTP4A2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.977 |
| 5770 | NM_001278618,NM | **PTPN1** | protein tyrosine phospha | protein_coding | 124 | 121 | 125 | 122 | 0.969 |
| 5771 | NM_001207013,NM | **PTPN2** | protein tyrosine phospha | protein_coding | 31 | 36 | 32 | 37 | 1.164 |
| 5774 | NM_001145368,NM | **PTPN3** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5775 | NM_002830 | **PTPN4** | protein tyrosine phospha | protein_coding | 12 | 10 | 13 | 11 | 0.868 |
| 5777 | NM_002831,NM_08 | **PTPN6** | protein tyrosine phospha | protein_coding | 5 | 4 | 6 | 5 | 0.986 |
| 5778 | NM_001199797,NM | **PTPN7** | protein tyrosine phospha | protein_coding | 203 | 219 | 204 | 220 | 1.079 |
| 5780 | NM_002833 | **PTPN9** | protein tyrosine phospha | protein_coding | 21 | 20 | 22 | 21 | 0.934 |
| 5781 | NM_001330437,NM | **PTPN11** | protein tyrosine phospha | protein_coding | 122 | 104 | 123 | 105 | 0.852 |
| 5782 | NM_001131008,NM | **PTPN12** | protein tyrosine phospha | protein_coding | 19 | 15 | 20 | 16 | 0.770 |
| 5783 | NM_006264,NM_08 | **PTPN13** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5784 | NM_005401,XM_01 | **PTPN14** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 5786 | NM_002836,NM_08 | **PTPRA** | protein tyrosine phospha | protein_coding | 49 | 48 | 50 | 49 | 0.973 |
| 5787 | NM_001109754,NM | **PTPRB** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5788 | NM_001267798,NM | **PTPRC** | protein tyrosine phospha | protein_coding | 343 | 325 | 344 | 326 | 0.947 |
| 5789 | NM_001040712,NM | **PTPRD** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5790 | NM_005608 | **PTPRCAP** | protein tyrosine phospha | protein_coding | 631 | 672 | 632 | 673 | 1.063 |
| 5791 | NM_001316676,NM | **PTPRE** | protein tyrosine phospha | protein_coding | 27 | 23 | 28 | 24 | 0.870 |
| 5792 | NM_001329137,NM | **PTPRF** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 5793 | NM_001375471,NM | **PTPRG** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 5794 | NM_001161440,NM | **PTPRH** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5795 | NM_001098503,NM | **PTPRJ** | protein tyrosine phospha | protein_coding | 39 | 35 | 40 | 36 | 0.895 |
| 5796 | NM_001135648,NM | **PTPRK** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 5797 | NM_001105244,NM | **PTPRM** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 5798 | NM_001199763,NM | **PTPRN** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5799 | NM_001308267,NM | **PTPRN2** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 5800 | NM_002848,NM_03 | **PTPRO** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5801 | NM_001207015,NM | **PTPRR** | protein tyrosine phospha | protein_coding | 1 | 0 | 2 | 1 | 0.971 |
| 5802 | NM_002850,NM_13 | **PTPRS** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5803 | NM_001206838,NM | **PTPRZ1** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 5805 | NM_000317 | **PTS** | 6-pyruvoyltetrahydropter | protein_coding | 43 | 41 | 44 | 42 | 0.939 |
| 5806 | NM_002852 | **PTX3** | pentraxin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.106 |
| 5810 | NM_002853,NR_02 | **RAD1** | RAD1 checkpoint DNA e> | protein_coding | 41 | 35 | 42 | 36 | 0.874 |
| 5813 | NM_005859 | **PURA** | purine rich element bindi | protein_coding | 11 | 10 | 12 | 11 | 0.951 |
| 5814 | NM_033224 | **PURB** | purine rich element bindi | protein_coding | 22 | 19 | 23 | 20 | 0.876 |
| 5816 | NM_001315532,NM | **PVALB** | parvalbumin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5817 | NM_001135768,NM | **PVR** | PVR cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5818 | NM_002855,NM_20 | **NECTIN1** | nectin cell adhesion mol | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5819 | NM_001042724,NM | **NECTIN2** | nectin cell adhesion mol | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5820 | NR_003367 | **PVT1** | Pvt1 oncogene | lncRNA | 14 | 13 | 15 | 14 | 0.942 |
| 5822 | NM_005049,XM_01 | **PWP2** | PWP2 small subunit pro | protein_coding | 84 | 77 | 85 | 78 | 0.913 |
| 5824 | NM_001193644,NM | **PEX19** | peroxisomal biogenesis f | protein_coding | 60 | 56 | 61 | 57 | 0.930 |
| 5825 | NM_001122674,NM | **ABCD3** | ATP binding cassette sul | protein_coding | 42 | 38 | 43 | 39 | 0.909 |
| 5826 | NM_001353591,NM | **ABCD4** | ATP binding cassette sul | protein_coding | 12 | 12 | 13 | 13 | 1.008 |
| 5827 | NM_018663 | **PXMP2** | peroxisomal membrane p | protein_coding | 20 | 23 | 21 | 24 | 1.122 |
| 5828 | NM_000318,NM_00 | **PEX2** | peroxisomal biogenesis f | protein_coding | 32 | 29 | 33 | 30 | 0.931 |
| 5829 | NM_001080855,NM | **PXN** | paxillin | protein_coding | 207 | 207 | 208 | 208 | 1.002 |
| 5830 | NM_000319,NM_00 | **PEX5** | peroxisomal biogenesis f | protein_coding | 10 | 9 | 11 | 10 | 0.945 |
| 5831 | NM_001282279,NM | **PYCR1** | pyrroline-5-carboxylate re | protein_coding | 112 | 105 | 113 | 106 | 0.939 |
| 5832 | NM_001017423,NM | **ALDH18A1** | aldehyde dehydrogenas | protein_coding | 118 | 119 | 119 | 120 | 1.008 |
| 5833 | NM_001184917,NM | **PCYT2** | phosphate cytidylyltrans | protein_coding | 12 | 14 | 13 | 15 | 1.192 |
| 5834 | NM_002862,XR_00 | **PYGB** | glycogen phosphorylase | protein_coding | 67 | 64 | 68 | 65 | 0.954 |
| 5836 | NM_001163940,NM | **PYGL** | glycogen phosphorylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5837 | NM_001164716,NM | **PYGM** | glycogen phosphorylase | protein_coding | 0 | 1 | 1 | 2 | 1.178 |
| 5858 | NM_002864,XM_01 | **PZP** | PZP alpha-2-macroglobu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5859 | NM_001272073,NM | **QARS1** | glutaminyl-tRNA synthet | protein_coding | 161 | 152 | 162 | 153 | 0.948 |
| 5860 | NM_000320,NM_00 | **QDPR** | quinoid dihydropteridine | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5861 | NM_004161,NM_01 | **RAB1A** | RAB1A, member RAS on | protein_coding | 74 | 69 | 75 | 70 | 0.933 |
| 5862 | NM_001242644,NM | **RAB2A** | RAB2A, member RAS on | protein_coding | 43 | 40 | 44 | 41 | 0.930 |
| 5863 | NM_001243738,NM | **RGL2** | ral guanine nucleotide di | protein_coding | 16 | 15 | 17 | 16 | 0.944 |
| 5864 | NM_002866,XM_01 | **RAB3A** | RAB3A, member RAS on | protein_coding | 2 | 2 | 3 | 3 | 1.104 |
| 5865 | NM_002867,XM_01 | **RAB3B** | RAB3B, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 5866 | NM_001271686,NM | **RAB3IL1** | RAB3A interacting protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5867 | NM_001271998,NM | **RAB4A** | RAB4A, member RAS on | protein_coding | 22 | 20 | 23 | 21 | 0.899 |
| 5868 | NM_001292048,NM | **RAB5A** | RAB5A, member RAS on | protein_coding | 58 | 51 | 59 | 52 | 0.890 |
| 5869 | NM_001252036,NM | **RAB5B** | RAB5B, member RAS on | protein_coding | 29 | 30 | 30 | 31 | 1.016 |
| 5870 | NM_001243718,NM | **RAB6A** | RAB6A, member RAS on | protein_coding | 74 | 68 | 75 | 69 | 0.927 |
| 5871 | NM_001307990,NM | **MAP4K2** | mitogen-activated proteir | protein_coding | 1 | 1 | 2 | 2 | 0.921 |
| 5872 | NM_001272038,NM | **RAB13** | RAB13, member RAS on | protein_coding | 0 | 1 | 1 | 2 | 1.200 |
| 5873 | NM_004580,NM_18 | **RAB27A** | RAB27A, member RAS o | protein_coding | 164 | 148 | 165 | 149 | 0.903 |
| 5874 | NM_001375327,NM | **RAB27B** | RAB27B, member RAS o | protein_coding | 1 | 1 | 2 | 2 | 1.033 |
| 5875 | NM_004581,NM_18 | **RABGGTA** | Rab geranylgeranyltrans | protein_coding | 19 | 18 | 20 | 19 | 0.968 |
| 5876 | NM_004582,NR_07 | **RABGGTB** | Rab geranylgeranyltrans | protein_coding | 97 | 88 | 98 | 89 | 0.911 |
| 5877 | NM_002871 | **RABIF** | RAB interacting factor | protein_coding | 13 | 12 | 14 | 13 | 0.925 |
| 5878 | NM_001252039,NM | **RAB5C** | RAB5C, member RAS or | protein_coding | 234 | 239 | 235 | 240 | 1.019 |
| 5879 | NM_006908,NM_01 | **RAC1** | Rac family small GTPase | protein_coding | 140 | 130 | 141 | 131 | 0.927 |
| 5880 | NM_002872,XM_00 | **RAC2** | Rac family small GTPase | protein_coding | 606 | 639 | 607 | 640 | 1.054 |
| 5881 | NM_001316307,NM | **RAC3** | Rac family small GTPase | protein_coding | 4 | 2 | 5 | 3 | 0.723 |
| 5883 | NM_001243224,NM | **RAD9A** | RAD9 checkpoint clamp | protein_coding | 21 | 22 | 22 | 23 | 1.073 |
| 5884 | NM_001278622,NM | **RAD17** | RAD17 checkpoint clamp | protein_coding | 62 | 58 | 63 | 59 | 0.933 |
| 5885 | NM_006265 | **RAD21** | RAD21 cohesin complex | protein_coding | 314 | 271 | 315 | 272 | 0.864 |
| 5886 | NM_001270362,NM | **RAD23A** | RAD23 homolog A, nucle | protein_coding | 186 | 184 | 187 | 185 | 0.990 |
| 5887 | NM_001244713,NM | **RAD23B** | RAD23 homolog B, nucle | protein_coding | 215 | 199 | 216 | 200 | 0.925 |
| 5888 | NM_001164269,NM | **RAD51** | RAD51 recombinase | protein_coding | 51 | 53 | 52 | 54 | 1.035 |
| 5889 | NM_002876,NM_05 | **RAD51C** | RAD51 paralog C | protein_coding | 85 | 96 | 86 | 97 | 1.136 |
| 5890 | NM_001321809,NM | **RAD51B** | RAD51 paralog B | protein_coding | 9 | 6 | 10 | 7 | 0.703 |
| 5891 | NM_001272011,NM | **MOK** | MOK protein kinase | protein_coding | 1 | 2 | 2 | 3 | 1.275 |
| 5892 | NM_001142571,NM | **RAD51D** | RAD51 paralog D | protein_coding | 20 | 22 | 21 | 23 | 1.060 |
| 5893 | NM_001297419,NM | **RAD52** | RAD52 homolog, DNA re | protein_coding | 5 | 5 | 6 | 6 | 1.008 |
| 5894 | NM_001354689,NM | **RAF1** | Raf-1 proto-oncogene, s | protein_coding | 71 | 65 | 72 | 66 | 0.925 |
| 5896 | NM_000448,NM_00 | **RAG1** | recombination activating | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 5897 | NM_000536,NM_00 | **RAG2** | recombination activating | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5898 | NM_005402,XM_00 | **RALA** | RAS like proto-oncogene | protein_coding | 37 | 35 | 38 | 36 | 0.939 |
| 5899 | NM_001369400,NM | **RALB** | RAS like proto-oncogene | protein_coding | 42 | 42 | 43 | 43 | 0.989 |
| 5900 | NM_001042368,NM | **RALGDS** | ral guanine nucleotide di | protein_coding | 10 | 12 | 11 | 13 | 1.193 |
| 5901 | NM_001300796,NM | **RAN** | RAN, member RAS onco | protein_coding | 694 | 699 | 695 | 700 | 1.007 |
| 5902 | NM_001278639,NM | **RANBP1** | RAN binding protein 1 | protein_coding | 427 | 472 | 428 | 473 | 1.106 |
| 5903 | NM_006267,XM_00 | **RANBP2** | RAN binding protein 2 | protein_coding | 54 | 44 | 55 | 45 | 0.813 |
| 5905 | NM_001278651,NM | **RANGAP1** | Ran GTPase activating p | protein_coding | 140 | 133 | 141 | 134 | 0.949 |
| 5906 | NM_001010935,NM | **RAP1A** | RAP1A, member of RAS | protein_coding | 150 | 123 | 151 | 124 | 0.822 |
| 5907 | gene-RAP1AP | **RAP1AP** | RAP1A, member of RAS | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 5908 | NM_001010942,NM | **RAP1B** | RAP1B, member of RAS | protein_coding | 37 | 34 | 38 | 35 | 0.930 |
| 5909 | NM_001145657,NM | **RAP1GAP** | RAP1 GTPase activating | protein_coding | 0 | 0 | 1 | 1 | 0.869 |
| 5910 | NM_001100426,NM | **RAP1GDS1** | Rap1 GTPase-GDP diss | protein_coding | 15 | 12 | 16 | 13 | 0.822 |
| 5911 | NM_021033 | **RAP2A** | RAP2A, member of RAS | protein_coding | 119 | 108 | 120 | 109 | 0.901 |
| 5912 | NM_002886 | **RAP2B** | RAP2B, member of RAS | protein_coding | 20 | 19 | 21 | 20 | 0.976 |
| 5913 | NM_005055,NM_03 | **RAPSN** | receptor associated prote | protein_coding | 0 | 0 | 1 | 1 | 1.242 |
| 5914 | NM_000964,NM_00 | **RARA** | retinoic acid receptor alp | protein_coding | 17 | 14 | 18 | 15 | 0.820 |
| 5915 | NM_000965,NM_00 | **RARB** | retinoic acid receptor bet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5916 | NM_000966,NM_00 | **RARG** | retinoic acid receptor gar | protein_coding | 0 | 1 | 1 | 2 | 1.149 |
| 5917 | NM_002887 | **RARS1** | arginyl-tRNA synthetase | protein_coding | 123 | 119 | 124 | 120 | 0.966 |
| 5918 | NM_002888,NM_20 | **RARRES1** | retinoic acid receptor res | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5919 | NM_002889,XM_01 | **RARRES2** | retinoic acid receptor res | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5920 | NM_004585 | **PLAAT4** | phospholipase A and ac | protein_coding | 108 | 112 | 109 | 113 | 1.033 |
| 5921 | NM_002890,NM_02 | **RASA1** | RAS p21 protein activato | protein_coding | 19 | 18 | 20 | 19 | 0.916 |
| 5922 | NM_001303245,NM | **RASA2** | RAS p21 protein activato | protein_coding | 29 | 24 | 30 | 25 | 0.834 |
| 5923 | NM_001145648,NM | **RASGRF1** | Ras protein specific guar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5924 | NM_006909,NM_00 | **RASGRF2** | Ras protein specific guar | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 5925 | NM_000321,XM_01 | **RB1** | RB transcriptional corepr | protein_coding | 133 | 116 | 134 | 117 | 0.872 |
| 5926 | NM_002892,NM_02 | **ARID4A** | AT-rich interaction domai | protein_coding | 12 | 10 | 13 | 11 | 0.825 |
| 5927 | NM_001042603 | **KDM5A** | lysine demethylase 5A | protein_coding | 14 | 12 | 15 | 13 | 0.866 |
| 5928 | NM_001135255,NM | **RBBP4** | RB binding protein 4, ch | protein_coding | 136 | 130 | 137 | 131 | 0.958 |
| 5929 | NM_001193272,NM | **RBBP5** | RB binding protein 5, his | protein_coding | 29 | 28 | 30 | 29 | 0.958 |
| 5930 | NM_006910,NM_01 | **RBBP6** | RB binding protein 6, ub | protein_coding | 56 | 48 | 57 | 49 | 0.859 |
| 5931 | NM_001198719,NM | **RBBP7** | RB binding protein 7, ch | protein_coding | 244 | 248 | 245 | 249 | 1.018 |
| 5932 | NM_002894,NM_20 | **RBBP8** | RB binding protein 8, en | protein_coding | 111 | 96 | 112 | 97 | 0.866 |
| 5933 | NM_001323281,NM | **RBL1** | RB transcriptional corepr | protein_coding | 32 | 28 | 33 | 29 | 0.891 |
| 5934 | NM_001323608,NM | **RBL2** | RB transcriptional corepr | protein_coding | 32 | 27 | 33 | 28 | 0.841 |
| 5935 | NM_006743,XM_02 | **RBM3** | RNA binding motif protei | protein_coding | 390 | 372 | 391 | 373 | 0.953 |
| 5936 | NM_001198843,NM | **RBM4** | RNA binding motif protei | protein_coding | 134 | 144 | 135 | 145 | 1.072 |
| 5937 | NM_002897,NM_01 | **RBMS1** | RNA binding motif single | protein_coding | 54 | 49 | 55 | 50 | 0.916 |
| 5938 | gene-RBMS1P1 | **RBMS1P1** | RNA binding motif single | pseudogene | 0 | 0 | 1 | 1 | 1.108 |
| 5939 | NM_002898,XM_00 | **RBMS2** | RNA binding motif single | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 5940 | NM_001320944,NM | **RBMY1A1** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5947 | NM_001130992,NM | **RBP1** | retinol binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5948 | NM_004164 | **RBP2** | retinol binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5949 | NM_002900 | **RBP3** | retinol binding protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5950 | NM_001323517,NM | **RBP4** | retinol binding protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5954 | NM_002901 | **RCN1** | reticulocalbin 1 | protein_coding | 21 | 23 | 22 | 24 | 1.091 |
| 5955 | NM_001271837,NM | **RCN2** | reticulocalbin 2 | protein_coding | 35 | 33 | 36 | 34 | 0.944 |
| 5956 | NM_020061 | **OPN1LW** | opsin 1, long wave sensi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5957 | NM_002903 | **RCVRN** | recoverin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5959 | NM_001199771,NM | **RDH5** | retinol dehydrogenase 5 | protein_coding | 0 | 0 | 1 | 1 | 0.844 |
| 5961 | NM_000322,XR_427 | **PRPH2** | peripherin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5962 | NM_001260492,NM | **RDX** | radixin | protein_coding | 17 | 14 | 18 | 15 | 0.873 |
| 5964 | gene-RDXP2 | **RDXP2** | radixin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 5965 | NM_002907,NM_03 | **RECQL** | RecQ like helicase | protein_coding | 61 | 59 | 62 | 60 | 0.972 |
| 5966 | NM_001291746,NM | **REL** | REL proto-oncogene, NF | protein_coding | 6 | 5 | 7 | 6 | 0.776 |
| 5967 | NM_002909 | **REG1A** | regenerating family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5968 | NM_006507 | **REG1B** | regenerating family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5969 | NR_002714 | **REG1CP** | regenerating family mem | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 5970 | NM_001145138,NM | **RELA** | RELA proto-oncogene, N | protein_coding | 70 | 76 | 71 | 77 | 1.073 |
| 5971 | NM_006509,XM_00 | **RELB** | RELB proto-oncogene, N | protein_coding | 8 | 8 | 9 | 9 | 1.006 |
| 5972 | NM_000537 | **REN** | renin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5973 | NM_002910,XM_01 | **RENBP** | renin binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5976 | NM_001297549,NM | **UPF1** | UPF1 RNA helicase and | protein_coding | 133 | 129 | 134 | 130 | 0.975 |
| 5977 | NM_001330308,NM | **DPF2** | double PHD fingers 2 | protein_coding | 67 | 89 | 68 | 90 | 1.323 |
| 5978 | NM_001193508,NM | **REST** | RE1 silencing transcriptio | protein_coding | 24 | 23 | 25 | 24 | 0.962 |
| 5979 | NM_001355216,NM | **RET** | ret proto-oncogene | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 5980 | NM_001286431,NM | **REV3L** | REV3 like, DNA directed | protein_coding | 12 | 11 | 13 | 12 | 0.874 |
| 5981 | NM_001204747,NM | **RFC1** | replication factor C subu | protein_coding | 104 | 90 | 105 | 91 | 0.866 |
| 5982 | NM_001278791,NM | **RFC2** | replication factor C subu | protein_coding | 198 | 211 | 199 | 212 | 1.064 |
| 5983 | NM_002915,NM_18 | **RFC3** | replication factor C subu | protein_coding | 162 | 146 | 163 | 147 | 0.898 |
| 5984 | NM_002916,NM_18 | **RFC4** | replication factor C subu | protein_coding | 150 | 134 | 151 | 135 | 0.889 |
| 5985 | NM_001130112,NM | **RFC5** | replication factor C subu | protein_coding | 42 | 51 | 43 | 52 | 1.199 |
| 5986 | NM_002917,XM_01 | **RFNG** | RFNG O-fucosylpeptide | protein_coding | 12 | 12 | 13 | 13 | 0.983 |
| 5987 | NM_006510 | **TRIM27** | tripartite motif containing | protein_coding | 65 | 63 | 66 | 64 | 0.975 |
| 5988 | NM_021026,XM_01 | **RFPL1** | ret finger protein like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5989 | NM_002918,XM_01 | **RFX1** | regulatory factor X1 | protein_coding | 8 | 8 | 9 | 9 | 1.038 |
| 5990 | NM_000635,NM_13 | **RFX2** | regulatory factor X2 | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 5991 | NM_001282116,NM | **RFX3** | regulatory factor X3 | protein_coding | 4 | 4 | 5 | 5 | 1.025 |
| 5992 | NM_001206691,NM | **RFX4** | regulatory factor X4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5993 | NM_000449,NM_00 | **RFX5** | regulatory factor X5 | protein_coding | 59 | 55 | 60 | 56 | 0.921 |
| 5994 | NM_000538 | **RFXAP** | regulatory factor X assoc | protein_coding | 35 | 33 | 36 | 34 | 0.933 |
| 5995 | NM_001012720,NM | **RGR** | retinal G protein coupled | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 5996 | NM_002922 | **RGS1** | regulator of G protein sig | protein_coding | 11 | 7 | 12 | 8 | 0.681 |
| 5997 | NM_002923 | **RGS2** | regulator of G protein sig | protein_coding | 6 | 6 | 7 | 7 | 0.936 |
| 5998 | NM_001276260,NM | **RGS3** | regulator of G protein sig | protein_coding | 33 | 38 | 34 | 39 | 1.131 |
| 5999 | NM_001102445,NM | **RGS4** | regulator of G protein sig | protein_coding | 7 | 4 | 8 | 5 | 0.667 |
| 6000 | NM_001282773,NM | **RGS7** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6001 | NM_001005339,NM | **RGS10** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6002 | NM_002926,NM_19 | **RGS12** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 6003 | NM_002927,NM_14 | **RGS13** | regulator of G protein sig | protein_coding | 1 | 1 | 2 | 2 | 0.718 |
| 6004 | NM_002928,XM_02 | **RGS16** | regulator of G protein sig | protein_coding | 67 | 51 | 68 | 52 | 0.773 |
| 6005 | NM_000324,XM_01 | **RHAG** | Rh associated glycoprote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6006 | NM_001330430,NM | **RHCE** | Rh blood group CcEe an | protein_coding | 0 | 0 | 1 | 1 | 1.118 |
| 6007 | NM_001127691,NM | **RHD** | Rh blood group D antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6008 | gene-RHEBP1 | **RHEBP1** | RHEB pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.043 |
| 6009 | NM_005614,XM_01 | **RHEB** | Ras homolog, mTORC1 | protein_coding | 70 | 66 | 71 | 67 | 0.951 |
| 6010 | NM_000539 | **RHO** | rhodopsin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6011 | NM_002929,XM_01 | **GRK1** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6013 | NM_006911,XM_01 | **RLN1** | relaxin 1 | protein_coding | 3 | 3 | 4 | 4 | 1.005 |
| 6014 | NM_001272077,NM | **RIT2** | Ras like without CAAX 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6015 | NM_002931 | **RING1** | ring finger protein 1 | protein_coding | 66 | 78 | 67 | 79 | 1.183 |
| 6016 | NM_001256820,NM | **RIT1** | Ras like without CAAX 1 | protein_coding | 9 | 9 | 10 | 10 | 0.972 |
| 6017 | NM_000326,XM_01 | **RLBP1** | retinaldehyde binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6018 | NM_012421,XM_01 | **RLF** | RLF zinc finger | protein_coding | 20 | 17 | 21 | 18 | 0.893 |
| 6019 | NM_001329191,NM | **RLN2** | relaxin 2 | protein_coding | 0 | 1 | 1 | 2 | 1.300 |
| 6023 | NR_003051 | **RMRP** | RNA component of mitoc | RNase_MRP_RNA | 3 | 3 | 4 | 4 | 0.954 |
| 6029 | NR_002715 | **RN7SL1** | RNA component of signa | scRNA | 25 | 12 | 26 | 13 | 0.487 |
| 6030 | gene-RN7SL4P | **RN7SL4P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 4 | 2 | 5 | 3 | 0.658 |
| 6035 | NM_002933,NM_19 | **RNASE1** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6036 | NM_002934 | **RNASE2** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6037 | NM_002935 | **RNASE3** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6038 | NM_001282192,NM | **RNASE4** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 6039 | NM_005615,XM_01 | **RNASE6** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 6041 | NM_021133,XR_001 | **RNASEL** | ribonuclease L | protein_coding | 8 | 8 | 9 | 9 | 0.991 |
| 6043 | NR_002586 | **SNORA63** | small nucleolar RNA, H/A | snoRNA | 27 | 23 | 28 | 24 | 0.847 |
| 6044 | NR_002324 | **SNORA62** | small nucleolar RNA, H/A | snoRNA | 13 | 9 | 14 | 10 | 0.758 |
| 6045 | NM_007212,XM_00 | **RNF2** | ring finger protein 2 | protein_coding | 29 | 25 | 30 | 26 | 0.859 |
| 6046 | NM_001113182,NM | **BRD2** | bromodomain containing | protein_coding | 191 | 186 | 192 | 187 | 0.977 |
| 6047 | NM_001185009,NM | **RNF4** | ring finger protein 4 | protein_coding | 133 | 129 | 134 | 130 | 0.974 |
| 6048 | NM_006913 | **RNF5** | ring finger protein 5 | protein_coding | 115 | 127 | 116 | 128 | 1.100 |
| 6049 | NM_005977,NM_18 | **RNF6** | ring finger protein 6 | protein_coding | 79 | 66 | 80 | 67 | 0.841 |
| 6050 | NM_002939,NM_20 | **RNH1** | ribonuclease/angiogenin | protein_coding | 124 | 147 | 125 | 148 | 1.182 |
| 6051 | NM_001319182,NM | **RNPEP** | arginyl aminopeptidase | protein_coding | 4 | 5 | 5 | 6 | 1.163 |
| 6059 | NM_001040876,NM | **ABCE1** | ATP binding cassette sul | protein_coding | 188 | 160 | 189 | 161 | 0.851 |
| 6060 | NR_004421 | **RNU1-4** | RNA, U1 small nuclear 4 | snRNA | 1 | 1 | 2 | 2 | 1.252 |
| 6063 | NR_145576 | **RNVU1-2A** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 6066 | NR_002716 | **RNU2-1** | RNA, U2 small nuclear 1 | snRNA | 0 | 0 | 1 | 1 | 0.996 |
| 6074 | gene-RNU7-24P | **RNU7-24P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6076 | gene-SNORD13P1 | **SNORD13P1** | small nucleolar RNA, C/I | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6078 | gene-SNORD13P3 | **SNORD13P3** | small nucleolar RNA, C/I | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6079 | NR_000005 | **SNORD15A** | small nucleolar RNA, C/I | snoRNA | 3 | 2 | 4 | 3 | 0.775 |
| 6080 | NR_002907 | **SNORA73A** | small nucleolar RNA, H/A | snoRNA | 6 | 8 | 7 | 9 | 1.272 |
| 6082 | NR_002908 | **SNORD20** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.105 |
| 6083 | NR_000006 | **SNORD21** | small nucleolar RNA, C/I | snoRNA | 4 | 3 | 5 | 4 | 0.700 |
| 6084 | NR_004391 | **RNY1** | RNA, Ro60-associated Y | Y_RNA | 0 | 0 | 1 | 1 | 0.748 |
| 6085 | NR_004392 | **RNY3** | RNA, Ro60-associated Y | Y_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 6086 | NR_004393 | **RNY4** | RNA, Ro60-associated Y | Y_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 6087 | gene-RNY4P1 | **RNY4P1** | RNY4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6088 | gene-RNY4P2 | **RNY4P2** | RNY4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6090 | NR_001571 | **RNY5** | RNA, Ro60-associated Y | Y_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 6091 | NM_001145845,NM | **ROBO1** | roundabout guidance rec | protein_coding | 4 | 3 | 5 | 4 | 0.747 |
| 6092 | NM_001128929,NM | **ROBO2** | roundabout guidance rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6093 | NM_005406 | **ROCK1** | Rho associated coiled-cc | protein_coding | 47 | 40 | 48 | 41 | 0.853 |
| 6094 | NM_000327 | **ROM1** | retinal outer segment me | protein_coding | 7 | 8 | 8 | 9 | 1.231 |
| 6095 | NM_002943,NM_13 | **RORA** | RAR related orphan rece | protein_coding | 16 | 15 | 17 | 16 | 0.944 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6096 | NM_001365023,NM | **RORB** | RAR related orphan rece | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 6097 | NM_001001523,NM | **RORC** | RAR related orphan rece | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6098 | NM_001378891,NM | **ROS1** | ROS proto-oncogene 1, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6100 | NM_203288,XM_01 | **RP9** | RP9 pre-mRNA splicing | protein_coding | 14 | 15 | 15 | 16 | 1.063 |
| 6101 | NM_001375654,NM | **RP1** | RP1 axonemal microtubu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6102 | NM_006915 | **RP2** | RP2 activator of ARL3 G | protein_coding | 23 | 20 | 24 | 21 | 0.906 |
| 6103 | NM_000328,NM_00 | **RPGR** | retinitis pigmentosa GTP | protein_coding | 8 | 6 | 9 | 7 | 0.811 |
| 6117 | NM_001355120,NM | **RPA1** | replication protein A1 | protein_coding | 68 | 62 | 69 | 63 | 0.919 |
| 6118 | NM_001286076,NM | **RPA2** | replication protein A2 | protein_coding | 278 | 276 | 279 | 277 | 0.990 |
| 6119 | NM_002947 | **RPA3** | replication protein A3 | protein_coding | 47 | 55 | 48 | 56 | 1.162 |
| 6120 | NM_001278282,NM | **RPE** | ribulose-5-phosphate-3-e | protein_coding | 98 | 77 | 99 | 78 | 0.780 |
| 6121 | NM_000329,XM_01 | **RPE65** | retinoid isomerohydrolas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6122 | NM_000967,NM_00 | **RPL3** | ribosomal protein L3 | protein_coding | 2,229 | 2,267 | 2,230 | 2,268 | 1.017 |
| 6123 | NM_005061,XM_01 | **RPL3L** | ribosomal protein L3 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6124 | NM_000968 | **RPL4** | ribosomal protein L4 | protein_coding | 1,618 | 1,607 | 1,619 | 1,608 | 0.993 |
| 6125 | NM_000969,NR_14 | **RPL5** | ribosomal protein L5 | protein_coding | 1,939 | 1,880 | 1,940 | 1,881 | 0.970 |
| 6126 | gene-RPL9P7 | **RPL9P7** | ribosomal protein L9 pse | pseudogene | 25 | 22 | 26 | 23 | 0.881 |
| 6128 | NM_000970,NM_00 | **RPL6** | ribosomal protein L6 | protein_coding | 1,671 | 1,539 | 1,672 | 1,540 | 0.921 |
| 6129 | NM_000971,NM_00 | **RPL7** | ribosomal protein L7 | protein_coding | 1,994 | 2,012 | 1,995 | 2,013 | 1.009 |
| 6130 | NM_000972 | **RPL7A** | ribosomal protein L7a | protein_coding | 2,452 | 2,514 | 2,453 | 2,515 | 1.025 |
| 6132 | NM_000973,NM_00 | **RPL8** | ribosomal protein L8 | protein_coding | 1,652 | 1,779 | 1,653 | 1,780 | 1.077 |
| 6133 | NM_000661,NM_00 | **RPL9** | ribosomal protein L9 | protein_coding | 2,414 | 2,325 | 2,415 | 2,326 | 0.963 |
| 6134 | NM_001256577,NM | **RPL10** | ribosomal protein L10 | protein_coding | 1,009 | 1,005 | 1,010 | 1,006 | 0.996 |
| 6135 | NM_000975,NM_00 | **RPL11** | ribosomal protein L11 | protein_coding | 2,021 | 2,061 | 2,022 | 2,062 | 1.020 |
| 6136 | NM_000976 | **RPL12** | ribosomal protein L12 | protein_coding | 2,931 | 3,018 | 2,932 | 3,019 | 1.030 |
| 6137 | NM_000977,NM_00 | **RPL13** | ribosomal protein L13 | protein_coding | 598 | 661 | 599 | 662 | 1.105 |
| 6138 | NM_001253379,NM | **RPL15** | ribosomal protein L15 | protein_coding | 901 | 884 | 902 | 885 | 0.981 |
| 6139 | NM_000985,NM_00 | **RPL17** | ribosomal protein L17 | protein_coding | 3,244 | 3,386 | 3,245 | 3,387 | 1.044 |
| 6141 | NM_000979,NM_00 | **RPL18** | ribosomal protein L18 | protein_coding | 2,005 | 2,072 | 2,006 | 2,073 | 1.033 |
| 6142 | NM_000980 | **RPL18A** | ribosomal protein L18a | protein_coding | 2,703 | 2,802 | 2,704 | 2,803 | 1.037 |
| 6143 | NM_000981,NM_00 | **RPL19** | ribosomal protein L19 | protein_coding | 3,432 | 3,592 | 3,433 | 3,593 | 1.047 |
| 6144 | NM_000982 | **RPL21** | ribosomal protein L21 | protein_coding | 3,514 | 3,421 | 3,515 | 3,422 | 0.973 |
| 6145 | gene-RPL21P1 | **RPL21P1** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.853 |
| 6146 | NM_000983 | **RPL22** | ribosomal protein L22 | protein_coding | 685 | 670 | 686 | 671 | 0.979 |
| 6147 | NM_000984 | **RPL23A** | ribosomal protein L23a | protein_coding | 1,792 | 1,924 | 1,793 | 1,925 | 1.074 |
| 6148 | gene-RPL23AP1 | **RPL23AP1** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 6150 | NM_021134,XM_00 | **MRPL23** | mitochondrial ribosomal | protein_coding | 164 | 183 | 165 | 184 | 1.119 |
| 6152 | NM_000986 | **RPL24** | ribosomal protein L24 | protein_coding | 2,270 | 2,304 | 2,271 | 2,305 | 1.015 |
| 6154 | NM_000987,NM_00 | **RPL26** | ribosomal protein L26 | protein_coding | 1,862 | 1,901 | 1,863 | 1,902 | 1.021 |
| 6155 | NM_000988,NM_00 | **RPL27** | ribosomal protein L27 | protein_coding | 2,856 | 2,968 | 2,857 | 2,969 | 1.039 |
| 6156 | NM_000989 | **RPL30** | ribosomal protein L30 | protein_coding | 2,551 | 2,724 | 2,552 | 2,725 | 1.068 |
| 6157 | NM_000990 | **RPL27A** | ribosomal protein L27a | protein_coding | 460 | 459 | 461 | 460 | 0.998 |
| 6158 | NM_000991,NM_00 | **RPL28** | ribosomal protein L28 | protein_coding | 387 | 417 | 388 | 418 | 1.079 |
| 6159 | NM_000992,XM_02 | **RPL29** | ribosomal protein L29 | protein_coding | 1,534 | 1,645 | 1,535 | 1,646 | 1.073 |
| 6160 | NM_000993,NM_00 | **RPL31** | ribosomal protein L31 | protein_coding | 756 | 751 | 757 | 752 | 0.994 |
| 6161 | NM_000994,NM_00 | **RPL32** | ribosomal protein L32 | protein_coding | 549 | 574 | 550 | 575 | 1.045 |
| 6163 | gene-RPL32P1 | **RPL32P1** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6164 | NM_000995,NM_00 | **RPL34** | ribosomal protein L34 | protein_coding | 522 | 518 | 523 | 519 | 0.992 |
| 6165 | NM_000996,NM_00 | **RPL35A** | ribosomal protein L35a | protein_coding | 719 | 734 | 720 | 735 | 1.021 |
| 6166 | NM_001001 | **RPL36AL** | ribosomal protein L36a li | protein_coding | 338 | 332 | 339 | 333 | 0.984 |
| 6167 | NM_000997,NR_15 | **RPL37** | ribosomal protein L37 | protein_coding | 347 | 379 | 348 | 380 | 1.093 |
| 6168 | NM_000998 | **RPL37A** | ribosomal protein L37a | protein_coding | 563 | 593 | 564 | 594 | 1.053 |
| 6169 | NM_000999,NM_00 | **RPL38** | ribosomal protein L38 | protein_coding | 573 | 656 | 574 | 657 | 1.144 |
| 6170 | NM_001000 | **RPL39** | ribosomal protein L39 | protein_coding | 2,413 | 2,476 | 2,414 | 2,477 | 1.026 |
| 6171 | NM_001035267,NM | **RPL41** | ribosomal protein L41 | protein_coding | 3,568 | 3,797 | 3,569 | 3,798 | 1.064 |
| 6172 | gene-RPL41P5 | **RPL41P5** | ribosomal protein L41 ps | pseudogene | 90 | 99 | 91 | 100 | 1.090 |
| 6173 | NM_021029 | **RPL36A** | ribosomal protein L36a | protein_coding | 1,041 | 1,174 | 1,042 | 1,175 | 1.127 |
| 6174 | gene-RPL7P1 | **RPL7P1** | ribosomal protein L7 pse | pseudogene | 14 | 14 | 15 | 15 | 0.991 |
| 6175 | NM_001002,NM_05 | **RPLP0** | ribosomal protein lateral | protein_coding | 3,251 | 3,306 | 3,252 | 3,307 | 1.017 |
| 6176 | NM_001003,NM_21 | **RPLP1** | ribosomal protein lateral | protein_coding | 1,940 | 2,220 | 1,941 | 2,221 | 1.144 |
| 6181 | NM_001004 | **RPLP2** | ribosomal protein lateral | protein_coding | 2,882 | 3,038 | 2,883 | 3,039 | 1.054 |
| 6182 | NM_002949 | **MRPL12** | mitochondrial ribosomal | protein_coding | 311 | 319 | 312 | 320 | 1.025 |
| 6183 | NM_021107,NM_03 | **MRPS12** | mitochondrial ribosomal | protein_coding | 239 | 253 | 240 | 254 | 1.060 |
| 6184 | NM_002950 | **RPN1** | ribophorin I | protein_coding | 331 | 336 | 332 | 337 | 1.016 |
| 6185 | NM_001135771,NM | **RPN2** | ribophorin II | protein_coding | 350 | 354 | 351 | 355 | 1.011 |
| 6187 | NM_002952 | **RPS2** | ribosomal protein S2 | protein_coding | 6,007 | 6,784 | 6,008 | 6,785 | 1.129 |
| 6188 | NM_001005,NM_00 | **RPS3** | ribosomal protein S3 | protein_coding | 1,429 | 1,425 | 1,430 | 1,426 | 0.997 |
| 6189 | NM_001006,NM_00 | **RPS3A** | ribosomal protein S3A | protein_coding | 2,103 | 2,023 | 2,104 | 2,024 | 0.962 |
| 6191 | NM_001007 | **RPS4X** | ribosomal protein S4 X-li | protein_coding | 1,262 | 1,320 | 1,263 | 1,321 | 1.046 |
| 6192 | NM_001008 | **RPS4Y1** | ribosomal protein S4 Y-li | protein_coding | 621 | 662 | 622 | 663 | 1.066 |
| 6193 | NM_001009 | **RPS5** | ribosomal protein S5 | protein_coding | 1,743 | 1,882 | 1,744 | 1,883 | 1.079 |
| 6194 | NM_001010 | **RPS6** | ribosomal protein S6 | protein_coding | 2,038 | 2,057 | 2,039 | 2,058 | 1.010 |
| 6195 | NM_001006665,NM | **RPS6KA1** | ribosomal protein S6 kina | protein_coding | 118 | 114 | 119 | 115 | 0.973 |
| 6196 | NM_001006932,NM | **RPS6KA2** | ribosomal protein S6 kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6197 | NM_004586,XM_00 | **RPS6KA3** | ribosomal protein S6 kina | protein_coding | 85 | 76 | 86 | 77 | 0.891 |
| 6198 | NM_001272042,NM | **RPS6KB1** | ribosomal protein S6 kina | protein_coding | 31 | 28 | 32 | 29 | 0.913 |
| 6199 | NM_003952,XM_00 | **RPS6KB2** | ribosomal protein S6 kina | protein_coding | 83 | 84 | 84 | 85 | 1.015 |
| 6201 | NM_001011 | **RPS7** | ribosomal protein S7 | protein_coding | 1,551 | 1,508 | 1,552 | 1,509 | 0.973 |
| 6202 | NM_001012 | **RPS8** | ribosomal protein S8 | protein_coding | 3,005 | 3,025 | 3,006 | 3,026 | 1.007 |
| 6203 | NM_001013,NM_00 | **RPS9** | ribosomal protein S9 | protein_coding | 1,905 | 1,979 | 1,906 | 1,980 | 1.039 |
| 6204 | NM_001014,NM_00 | **RPS10** | ribosomal protein S10 | protein_coding | 2,231 | 2,273 | 2,232 | 2,274 | 1.019 |
| 6205 | NM_001015 | **RPS11** | ribosomal protein S11 | protein_coding | 3,141 | 3,428 | 3,142 | 3,429 | 1.091 |
| 6206 | NM_001016 | **RPS12** | ribosomal protein S12 | protein_coding | 1,981 | 2,090 | 1,982 | 2,091 | 1.055 |
| 6207 | NM_001017 | **RPS13** | ribosomal protein S13 | protein_coding | 1,752 | 1,728 | 1,753 | 1,729 | 0.987 |
| 6208 | NM_001025070,NM | **RPS14** | ribosomal protein S14 | protein_coding | 845 | 886 | 846 | 887 | 1.049 |
| 6209 | NM_001018,NM_00 | **RPS15** | ribosomal protein S15 | protein_coding | 2,114 | 2,252 | 2,115 | 2,253 | 1.066 |
| 6210 | NM_001019,NM_00 | **RPS15A** | ribosomal protein S15a | protein_coding | 596 | 599 | 597 | 600 | 1.005 |
| 6217 | NM_001020,NM_00 | **RPS16** | ribosomal protein S16 | protein_coding | 2,064 | 2,223 | 2,065 | 2,224 | 1.077 |
| 6218 | NM_001021,NR_11 | **RPS17** | ribosomal protein S17 | protein_coding | 4,361 | 4,541 | 4,362 | 4,542 | 1.041 |
| 6219 | gene-RPS17P2 | **RPS17P2** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.982 |
| 6222 | NM_022551 | **RPS18** | ribosomal protein S18 | protein_coding | 8,226 | 8,538 | 8,227 | 8,539 | 1.038 |
| 6223 | NM_001022,NM_00 | **RPS19** | ribosomal protein S19 | protein_coding | 699 | 702 | 700 | 703 | 1.003 |
| 6224 | NM_001023,NM_00 | **RPS20** | ribosomal protein S20 | protein_coding | 2,258 | 2,222 | 2,259 | 2,223 | 0.984 |
| 6225 | gene-RPS20P3 | **RPS20P3** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 0.890 |
| 6226 | gene-RPS20P4 | **RPS20P4** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6227 | NM_001024,XM_02 | **RPS21** | ribosomal protein S21 | protein_coding | 1,782 | 1,985 | 1,783 | 1,986 | 1.114 |
| 6228 | NM_001025 | **RPS23** | ribosomal protein S23 | protein_coding | 572 | 597 | 573 | 598 | 1.042 |
| 6229 | NM_001026,NM_00 | **RPS24** | ribosomal protein S24 | protein_coding | 3,045 | 3,097 | 3,046 | 3,098 | 1.017 |
| 6230 | NM_001028 | **RPS25** | ribosomal protein S25 | protein_coding | 2,164 | 2,216 | 2,165 | 2,217 | 1.024 |
| 6231 | NM_001029 | **RPS26** | ribosomal protein S26 | protein_coding | 528 | 545 | 529 | 546 | 1.033 |
| 6232 | NM_001030,NM_00 | **RPS27** | ribosomal protein S27 | protein_coding | 3,726 | 3,876 | 3,727 | 3,877 | 1.040 |
| 6233 | NM_001135592,NM | **RPS27A** | ribosomal protein S27a | protein_coding | 1,104 | 1,098 | 1,105 | 1,099 | 0.995 |
| 6234 | NM_001031 | **RPS28** | ribosomal protein S28 | protein_coding | 255 | 320 | 256 | 321 | 1.253 |
| 6235 | NM_001030001,NM | **RPS29** | ribosomal protein S29 | protein_coding | 486 | 620 | 487 | 621 | 1.275 |
| 6236 | NM_001128850,NM | **RRAD** | RRAD, Ras related glycc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6237 | NM_006270 | **RRAS** | RAS related | protein_coding | 1 | 2 | 2 | 3 | 1.076 |
| 6238 | NM_001042576,NM | **RRBP1** | ribosome binding protein | protein_coding | 17 | 18 | 18 | 19 | 1.017 |
| 6239 | NM_001003698,NM | **RREB1** | ras responsive element b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6240 | NM_001033,NM_00 | **RRM1** | ribonucleotide reductase | protein_coding | 217 | 199 | 218 | 200 | 0.916 |
| 6241 | NM_001034,NM_00 | **RRM2** | ribonucleotide reductase | protein_coding | 503 | 530 | 504 | 531 | 1.053 |
| 6242 | NM_001015055,NM | **RTKN** | rhotekin | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 6244 | gene-RRM2P2 | **RRM2P2** | ribonucleotide reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6247 | NM_000330 | **RS1** | retinoschisin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6248 | NM_006511 | **RSC1A1** | regulator of solute carrie | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 6249 | NM_001247997,NM | **CLIP1** | CAP-Gly domain contain | protein_coding | 15 | 14 | 16 | 15 | 0.939 |
| 6251 | NM_012425,NM_15 | **RSU1** | Ras suppressor protein 1 | protein_coding | 18 | 17 | 19 | 18 | 0.948 |
| 6252 | NM_001363702,NM | **RTN1** | reticulon 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6253 | NM_005619,NM_20 | **RTN2** | reticulon 2 | protein_coding | 2 | 1 | 3 | 2 | 0.757 |
| 6256 | NM_001291920,NM | **RXRA** | retinoid X receptor alpha | protein_coding | 3 | 3 | 4 | 4 | 1.008 |
| 6257 | NM_001270401,NM | **RXRB** | retinoid X receptor beta | protein_coding | 30 | 29 | 31 | 30 | 0.977 |
| 6258 | NM_001256570,NM | **RXRG** | retinoid X receptor gamm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6259 | NM_001005861,NM | **RYK** | receptor like tyrosine kin | protein_coding | 8 | 8 | 9 | 9 | 0.989 |
| 6260 | gene-RYKP1 | **RYKP1** | RYK pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6261 | NM_000540,NM_00 | **RYR1** | ryanodine receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 6262 | NM_001035,XM_00 | **RYR2** | ryanodine receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 6263 | NM_001036,NM_00 | **RYR3** | ryanodine receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.011 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6271 | NM_006271 | **S100A1** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6272 | NM_001205228,NM | **SORT1** | sortilin 1 | protein_coding | 16 | 13 | 17 | 14 | 0.801 |
| 6273 | NM_001366406,NM | **S100A2** | S100 calcium binding pr | protein_coding | 7 | 9 | 8 | 10 | 1.246 |
| 6274 | NM_002960 | **S100A3** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.179 |
| 6275 | NM_002961,NM_01 | **S100A4** | S100 calcium binding pr | protein_coding | 28 | 23 | 29 | 24 | 0.839 |
| 6276 | NM_002962,XM_01 | **S100A5** | S100 calcium binding pr | protein_coding | 1 | 0 | 2 | 1 | 0.843 |
| 6277 | NM_014624,XM_01 | **S100A6** | S100 calcium binding pr | protein_coding | 968 | 1,050 | 969 | 1,051 | 1.085 |
| 6278 | NM_002963 | **S100A7** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6279 | NM_001319196,NM | **S100A8** | S100 calcium binding pr | protein_coding | 19 | 15 | 20 | 16 | 0.805 |
| 6280 | NM_002965 | **S100A9** | S100 calcium binding pr | protein_coding | 393 | 388 | 394 | 389 | 0.986 |
| 6281 | NM_002966 | **S100A10** | S100 calcium binding pr | protein_coding | 97 | 110 | 98 | 111 | 1.131 |
| 6282 | NM_005620 | **S100A11** | S100 calcium binding pr | protein_coding | 144 | 148 | 145 | 149 | 1.032 |
| 6283 | NM_005621 | **S100A12** | S100 calcium binding pr | protein_coding | 4 | 4 | 5 | 5 | 0.998 |
| 6284 | NM_001024210,NM | **S100A13** | S100 calcium binding pr | protein_coding | 9 | 9 | 10 | 10 | 0.984 |
| 6285 | NM_006272,XM_01 | **S100B** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 6286 | NM_005980 | **S100P** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.202 |
| 6288 | NM_000331,NM_00 | **SAA1** | serum amyloid A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6289 | NM_001127380,NM | **SAA2** | serum amyloid A2 | protein_coding | 0 | 0 | 1 | 1 | 0.839 |
| 6290 | NR_026576 | **SAA3P** | serum amyloid A3, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6291 | NM_006512 | **SAA4** | serum amyloid A4, const | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6293 | NM_001289174,NM | **VPS52** | VPS52 subunit of GARP | protein_coding | 28 | 30 | 29 | 31 | 1.071 |
| 6294 | NM_001201338,NM | **SAFB** | scaffold attachment fact | protein_coding | 172 | 178 | 173 | 179 | 1.036 |
| 6295 | NM_000541,XM_01 | **SAG** | S-antigen visual arrestin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6296 | NM_005622,NM_20 | **ACSM3** | acyl-CoA synthetase me | protein_coding | 5 | 4 | 6 | 5 | 0.851 |
| 6297 | NM_001291446,NM | **SALL2** | spalt like transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6299 | NM_001127892,NM | **SALL1** | spalt like transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6300 | NM_001303252,NM | **MAPK12** | mitogen-activated protein | protein_coding | 31 | 28 | 32 | 29 | 0.924 |
| 6301 | NM_001330669,NM | **SARS1** | seryl-tRNA synthetase 1 | protein_coding | 217 | 208 | 218 | 209 | 0.955 |
| 6302 | NM_001330168,NM | **TSPAN31** | tetraspanin 31 | protein_coding | 6 | 5 | 7 | 6 | 0.796 |
| 6303 | NM_002970,NR_02 | **SAT1** | spermidine/spermine N1- | protein_coding | 35 | 35 | 36 | 36 | 1.015 |
| 6304 | NM_001131010,NM | **SATB1** | SATB homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6305 | NM_001365819,NM | **SBF1** | SET binding factor 1 | protein_coding | 64 | 59 | 65 | 60 | 0.928 |
| 6307 | NM_001017369,NM | **MSMO1** | methylsterol monooxyge | protein_coding | 99 | 81 | 100 | 82 | 0.820 |
| 6308 | gene-SC4MOP | **SC4MOP** | sterol-C4-methyl oxidase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6309 | NM_001024956,NM | **SC5D** | sterol-C5-desaturase | protein_coding | 15 | 13 | 16 | 14 | 0.894 |
| 6310 | NM_000332,NM_00 | **ATXN1** | ataxin 1 | protein_coding | 15 | 15 | 16 | 16 | 0.951 |
| 6311 | NM_001310121,NM | **ATXN2** | ataxin 2 | protein_coding | 11 | 10 | 12 | 11 | 0.990 |
| 6314 | NM_000333,NM_00 | **ATXN7** | ataxin 7 | protein_coding | 14 | 12 | 15 | 13 | 0.869 |
| 6315 | NR_002717 | **ATXN8OS** | ATXN8 opposite strand l | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 6317 | NM_006919 | **SERPINB3** | serpin family B member : | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6318 | NM_002974,NM_17 | **SERPINB4** | serpin family B member - | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6319 | NM_005063 | **SCD** | stearoyl-CoA desaturase | protein_coding | 159 | 150 | 160 | 151 | 0.948 |
| 6320 | NM_002975 | **CLEC11A** | C-type lectin domain con | protein_coding | 3 | 4 | 4 | 5 | 1.317 |
| 6322 | NM_001037535,NM | **SCML1** | Scm polycomb group pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6323 | NM_001165963,NM | **SCN1A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 6324 | NM_001037,NM_00 | **SCN1B** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 0.741 |
| 6326 | NM_001040142,NM | **SCN2A** | sodium voltage-gated ch | protein_coding | 1 | 0 | 2 | 1 | 0.822 |
| 6327 | NM_004588 | **SCN2B** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6328 | NM_001081676,NM | **SCN3A** | sodium voltage-gated ch | protein_coding | 6 | 5 | 7 | 6 | 0.908 |
| 6329 | NM_000334 | **SCN4A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 6330 | NM_001142348,NM | **SCN4B** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 6331 | NM_000335,NM_00 | **SCN5A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 6332 | NM_002976,NR_04 | **SCN7A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6334 | NM_001177984,NM | **SCN8A** | sodium voltage-gated ch | protein_coding | 1 | 0 | 2 | 1 | 0.748 |
| 6335 | NM_001365536,NM | **SCN9A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6336 | NM_001293306,NM | **SCN10A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6337 | NM_001038,NM_00 | **SCNN1A** | sodium channel epithelia | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6338 | NM_000336,XM_01 | **SCNN1B** | sodium channel epithelia | protein_coding | 0 | 0 | 1 | 1 | 1.081 |
| 6339 | NM_001130413,NR | **SCNN1D** | sodium channel epithelia | protein_coding | 1 | 0 | 2 | 1 | 0.850 |
| 6340 | NM_001039 | **SCNN1G** | sodium channel epithelia | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6341 | NM_004589 | **SCO1** | synthesis of cytochrome | protein_coding | 10 | 10 | 11 | 11 | 0.949 |
| 6342 | NM_001007098,NM | **SCP2** | sterol carrier protein 2 | protein_coding | 159 | 150 | 160 | 151 | 0.949 |
| 6343 | NM_021920,XM_01 | **SCT** | secretin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6344 | NM_002980,XM_00 | **SCTR** | secretin receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6345 | NM_001098814,NM | **SRL** | sarcalumenin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6346 | NM_002981 | **CCL1** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6347 | NM_002982 | **CCL2** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6348 | NM_002983,NR_16 | **CCL3** | C-C motif chemokine lig | protein_coding | 4,622 | 4,941 | 4,623 | 4,942 | 1.069 |
| 6351 | NM_002984 | **CCL4** | C-C motif chemokine lig | protein_coding | 1,608 | 1,499 | 1,609 | 1,500 | 0.932 |
| 6352 | NM_001278736,NM | **CCL5** | C-C motif chemokine lig | protein_coding | 991 | 1,072 | 992 | 1,073 | 1.082 |
| 6354 | NM_006273 | **CCL7** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6355 | NM_005623 | **CCL8** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6356 | NM_002986 | **CCL11** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6357 | NM_005408 | **CCL13** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6358 | NM_032962,NM_03 | **CCL14** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6359 | NM_032965 | **CCL15** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6360 | NM_004590,XM_00 | **CCL16** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6361 | NM_002987,XM_01 | **CCL17** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6362 | NM_002988 | **CCL18** | C-C motif chemokine lig | protein_coding | 59 | 67 | 60 | 68 | 1.142 |
| 6363 | NM_006274 | **CCL19** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6364 | NM_001130046,NM | **CCL20** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6366 | NM_002989 | **CCL21** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6367 | NM_002990 | **CCL22** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6368 | NM_005064,NM_14 | **CCL23** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6369 | NM_001371193,NM | **CCL24** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6370 | NM_001201359,NM | **CCL25** | C-C motif chemokine lig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6372 | NM_002993 | **CXCL6** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6373 | NM_001302123,NM | **CXCL11** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 0.887 |
| 6374 | NM_002994 | **CXCL5** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6375 | NM_002995,XM_01 | **XCL1** | X-C motif chemokine liga | protein_coding | 41 | 54 | 42 | 55 | 1.313 |
| 6376 | NM_001304392,NM | **CX3CL1** | C-X3-C motif chemokine | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6382 | NM_001006946,NM | **SDC1** | syndecan 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6383 | NM_002998,XM_01 | **SDC2** | syndecan 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6385 | NM_002999,XM_01 | **SDC4** | syndecan 4 | protein_coding | 11 | 10 | 12 | 11 | 0.947 |
| 6386 | NM_001007067,NM | **SDCBP** | syndecan binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6387 | NM_000609,NM_00 | **CXCL12** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6388 | NM_006923,NR_04 | **SDF2** | stromal cell derived fact | protein_coding | 78 | 82 | 79 | 83 | 1.057 |
| 6389 | NM_001294332,NM | **SDHA** | succinate dehydrogenas | protein_coding | 73 | 92 | 74 | 93 | 1.260 |
| 6390 | NM_003000 | **SDHB** | succinate dehydrogenas | protein_coding | 338 | 344 | 339 | 345 | 1.018 |
| 6391 | NM_001035511,NM | **SDHC** | succinate dehydrogenas | protein_coding | 41 | 38 | 42 | 39 | 0.943 |
| 6392 | NM_001276503,NM | **SDHD** | succinate dehydrogenas | protein_coding | 277 | 274 | 278 | 275 | 0.989 |
| 6396 | NM_001136026,NM | **SEC13** | SEC13 homolog, nuclea | protein_coding | 178 | 181 | 179 | 182 | 1.013 |
| 6397 | NM_001039573,NM | **SEC14L1** | SEC14 like lipid binding | protein_coding | 34 | 31 | 35 | 32 | 0.908 |
| 6398 | NM_003004,XM_00 | **SECTM1** | secreted and transmemb | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6399 | NM_001011658,NM | **TRAPPC2** | trafficking protein particl | protein_coding | 17 | 17 | 18 | 18 | 1.029 |
| 6400 | NM_001244984,NM | **SEL1L** | SEL1L adaptor subunit c | protein_coding | 39 | 35 | 40 | 36 | 0.909 |
| 6401 | NM_000450 | **SELE** | selectin E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6402 | NM_000655,NR_02 | **SELL** | selectin L | protein_coding | 2 | 3 | 3 | 4 | 1.018 |
| 6403 | NM_003005,XM_00 | **SELP** | selectin P | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6404 | NM_001206609,NM | **SELPLG** | selectin P ligand | protein_coding | 108 | 108 | 109 | 109 | 1.000 |
| 6405 | NM_001318798,NM | **SEMA3F** | semaphorin 3F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6406 | NM_003007 | **SEMG1** | semenogelin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6407 | NM_003008 | **SEMG2** | semenogelin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6414 | NM_001085486,NM | **SELENOP** | selenoprotein P | protein_coding | 0 | 0 | 1 | 1 | 0.890 |
| 6415 | NM_003009 | **SELENOW** | selenoprotein W | protein_coding | 191 | 182 | 192 | 183 | 0.950 |
| 6416 | NM_001281435,NM | **MAP2K4** | mitogen-activated protein | protein_coding | 19 | 18 | 20 | 19 | 0.924 |
| 6418 | NM_001122821,NM | **SET** | SET nuclear proto-oncog | protein_coding | 690 | 660 | 691 | 661 | 0.957 |
| 6419 | NM_001243723,NM | **SETMAR** | SET domain and mariner | protein_coding | 11 | 11 | 12 | 12 | 1.018 |
| 6421 | NM_005066,NR_13 | **SFPQ** | splicing factor proline an | protein_coding | 347 | 320 | 348 | 321 | 0.923 |
| 6422 | NM_003012 | **SFRP1** | secreted frizzled related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6423 | NM_003013 | **SFRP2** | secreted frizzled related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6424 | NM_003014 | **SFRP4** | secreted frizzled related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6425 | NM_003015 | **SFRP5** | secreted frizzled related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6426 | NM_001078166,NM | **SRSF1** | serine and arginine rich s | protein_coding | 317 | 303 | 318 | 304 | 0.955 |
| 6427 | NM_001195427,NM | **SRSF2** | serine and arginine rich s | protein_coding | 537 | 582 | 538 | 583 | 1.084 |
| 6428 | NM_003017,NR_03 | **SRSF3** | serine and arginine rich s | protein_coding | 239 | 246 | 240 | 247 | 1.029 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6429 | NM_005626,XM_01 | **SRSF4** | serine and arginine rich s | protein_coding | 164 | 161 | 165 | 162 | 0.981 |
| 6430 | NM_001039465,NM | **SRSF5** | serine and arginine rich s | protein_coding | 269 | 281 | 270 | 282 | 1.041 |
| 6431 | NM_006275,NR_03 | **SRSF6** | serine and arginine rich s | protein_coding | 139 | 138 | 140 | 139 | 0.992 |
| 6432 | NM_001031684,NM | **SRSF7** | serine and arginine rich s | protein_coding | 336 | 379 | 337 | 380 | 1.126 |
| 6433 | NM_001261411,NM | **SFSWAP** | splicing factor SWAP | protein_coding | 40 | 39 | 41 | 40 | 0.983 |
| 6434 | NM_001243879,NM | **TRA2B** | transformer 2 beta homo | protein_coding | 308 | 325 | 309 | 326 | 1.054 |
| 6439 | NM_000542,NM_00 | **SFTPB** | surfactant protein B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6440 | NM_001172357,NM | **SFTPC** | surfactant protein C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6441 | NM_003019,XM_01 | **SFTPD** | surfactant protein D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6442 | NM_000023,NM_00 | **SGCA** | sarcoglycan alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6443 | NM_000232 | **SGCB** | sarcoglycan beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6444 | NM_000337,NM_00 | **SGCD** | sarcoglycan delta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6445 | NM_000231,NM_00 | **SGCG** | sarcoglycan gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6446 | NM_001143676,NM | **SGK1** | serum/glucocorticoid reg | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 6447 | NM_001144757,NM | **SCG5** | secretogranin V | protein_coding | 0 | 2 | 1 | 3 | 2.093 |
| 6448 | NM_000199,NM_00 | **SGSH** | N-sulfoglucosamine sulf | protein_coding | 3 | 3 | 4 | 4 | 0.807 |
| 6449 | NM_003021,XM_01 | **SGTA** | small glutamine rich tetr | protein_coding | 179 | 179 | 180 | 180 | 1.001 |
| 6450 | NM_001001713,NM | **SH3BGR** | SH3 domain binding glut | protein_coding | 4 | 6 | 5 | 7 | 1.255 |
| 6451 | NM_003022,XM_01 | **SH3BGRL** | SH3 domain binding glut | protein_coding | 60 | 57 | 61 | 58 | 0.949 |
| 6452 | NM_001122681,NM | **SH3BP2** | SH3 domain binding pro | protein_coding | 34 | 32 | 35 | 33 | 0.928 |
| 6453 | NM_001001132,NM | **ITSN1** | intersectin 1 | protein_coding | 3 | 3 | 4 | 4 | 0.903 |
| 6455 | NM_001199943,NM | **SH3GL1** | SH3 domain containing ( | protein_coding | 47 | 51 | 48 | 52 | 1.074 |
| 6456 | NM_003026,XM_01 | **SH3GL2** | SH3 domain containing ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6457 | NM_001301108,NM | **SH3GL3** | SH3 domain containing ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6458 | NR_033412 | **SH3GL1P1** | SH3 domain containing ( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.933 |
| 6459 | NR_033420 | **SH3GL1P2** | SH3 domain containing ( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.963 |
| 6461 | NM_003028 | **SHB** | SH2 domain containing a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6462 | NM_001040,NM_00 | **SHBG** | sex hormone binding glo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6464 | NM_001130040,NM | **SHC1** | SHC adaptor protein 1 | protein_coding | 41 | 40 | 42 | 41 | 0.984 |
| 6465 | gene-SHC1P1 | **SHC1P1** | SHC adaptor protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6466 | gene-SHC1P2 | **SHC1P2** | SHC adaptor protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6468 | NM_001323541,NM | **FBXW4** | F-box and WD repeat do | protein_coding | 13 | 15 | 14 | 16 | 1.144 |
| 6469 | NM_000193,NM_00 | **SHH** | sonic hedgehog signalin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6470 | NM_001281786,NM | **SHMT1** | serine hydroxymethyltrar | protein_coding | 33 | 35 | 34 | 36 | 1.059 |
| 6471 | gene-SHMT1P1 | **SHMT1P1** | serine hydroxymethyltrar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6472 | NM_001166356,NM | **SHMT2** | serine hydroxymethyltrar | protein_coding | 285 | 268 | 286 | 269 | 0.939 |
| 6473 | NM_000451,NM_00 | **SHOX** | short stature homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6474 | NM_001163678,NM | **SHOX2** | short stature homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6476 | NM_001041,XM_01 | **SI** | sucrase-isomaltase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6477 | NM_001006610,NM | **SIAH1** | siah E3 ubiquitin protein | protein_coding | 11 | 13 | 12 | 14 | 1.140 |
| 6478 | NM_005067 | **SIAH2** | siah E3 ubiquitin protein | protein_coding | 39 | 39 | 40 | 40 | 0.982 |
| 6480 | NM_001353916,NM | **ST6GAL1** | ST6 beta-galactoside alp | protein_coding | 8 | 7 | 9 | 8 | 0.874 |
| 6482 | NM_003033,NM_17 | **ST3GAL1** | ST3 beta-galactoside alp | protein_coding | 33 | 29 | 34 | 30 | 0.902 |
| 6483 | NM_006927 | **ST3GAL2** | ST3 beta-galactoside alp | protein_coding | 11 | 10 | 12 | 11 | 0.891 |
| 6484 | NM_001254757,NM | **ST3GAL4** | ST3 beta-galactoside alp | protein_coding | 7 | 9 | 8 | 10 | 1.312 |
| 6487 | NM_001270459,NM | **ST3GAL3** | ST3 beta-galactoside alp | protein_coding | 3 | 2 | 4 | 3 | 0.899 |
| 6489 | NM_001304450,NM | **ST8SIA1** | ST8 alpha-N-acetyl-neur | protein_coding | 1 | 1 | 2 | 2 | 1.049 |
| 6490 | NM_001200053,NM | **PMEL** | premelanosome protein | protein_coding | 0 | 0 | 1 | 1 | 0.883 |
| 6491 | NM_001048166,NM | **STIL** | STIL centriolar assembly | protein_coding | 62 | 57 | 63 | 58 | 0.922 |
| 6492 | NM_001374769,NM | **SIM1** | SIM bHLH transcription f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6493 | NM_005069,NM_00 | **SIM2** | SIM bHLH transcription f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6494 | NM_006747,NM_15 | **SIPA1** | signal-induced proliferati | protein_coding | 56 | 57 | 57 | 58 | 1.027 |
| 6495 | NM_005982,XM_01 | **SIX1** | SIX homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6496 | NM_005413 | **SIX3** | SIX homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6497 | NM_003036,XM_00 | **SKI** | SKI proto-oncogene | protein_coding | 36 | 24 | 37 | 25 | 0.685 |
| 6498 | NM_001145097,NM | **SKIL** | SKI like proto-oncogene | protein_coding | 13 | 8 | 14 | 9 | 0.656 |
| 6499 | NM_006929,XM_01 | **SKIV2L** | Ski2 like RNA helicase | protein_coding | 25 | 25 | 26 | 26 | 1.014 |
| 6500 | NM_006930,NM_17 | **SKP1** | S-phase kinase associat | protein_coding | 82 | 94 | 83 | 95 | 1.140 |
| 6502 | NM_001243120,NM | **SKP2** | S-phase kinase associat | protein_coding | 61 | 54 | 62 | 55 | 0.878 |
| 6503 | NM_001045556,NM | **SLA** | Src like adaptor | protein_coding | 35 | 33 | 36 | 34 | 0.959 |
| 6504 | NM_001330754,NM | **SLAMF1** | signaling lymphocytic ac | protein_coding | 14 | 13 | 15 | 14 | 0.988 |
| 6505 | NM_004170,XM_01 | **SLC1A1** | solute carrier family 1 me | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 6506 | NM_001195728,NM | **SLC1A2** | solute carrier family 1 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6507 | NM_001166695,NM | **SLC1A3** | solute carrier family 1 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6508 | NM_001326559,NM | **SLC4A3** | solute carrier family 4 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6509 | NM_001193493,NM | **SLC1A4** | solute carrier family 1 me | protein_coding | 38 | 35 | 39 | 36 | 0.924 |
| 6510 | NM_001145144,NM | **SLC1A5** | solute carrier family 1 me | protein_coding | 238 | 230 | 239 | 231 | 0.966 |
| 6511 | NM_001272087,NM | **SLC1A6** | solute carrier family 1 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6512 | NM_001287595,NM | **SLC1A7** | solute carrier family 1 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6513 | NM_006516 | **SLC2A1** | solute carrier family 2 me | protein_coding | 69 | 76 | 70 | 77 | 1.101 |
| 6514 | NM_000340,NM_00 | **SLC2A2** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6515 | NM_006931 | **SLC2A3** | solute carrier family 2 me | protein_coding | 65 | 63 | 66 | 64 | 0.977 |
| 6517 | NM_001042 | **SLC2A4** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6518 | NM_001135585,NM | **SLC2A5** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6519 | NM_000341,XM_01 | **SLC3A1** | solute carrier family 3 me | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 6520 | NM_001012662,NM | **SLC3A2** | solute carrier family 3 me | protein_coding | 212 | 212 | 213 | 213 | 1.000 |
| 6521 | NM_000342,XM_00 | **SLC4A1** | solute carrier family 4 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6522 | NM_001199692,NM | **SLC4A2** | solute carrier family 4 me | protein_coding | 34 | 30 | 35 | 31 | 0.895 |
| 6523 | NM_000343,NM_00 | **SLC5A1** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 0.927 |
| 6524 | NM_003041,NR_13 | **SLC5A2** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6525 | NM_001207017,NM | **SMTN** | smoothelin | protein_coding | 18 | 19 | 19 | 20 | 1.061 |
| 6526 | NM_006933 | **SLC5A3** | solute carrier family 5 me | protein_coding | 23 | 19 | 24 | 20 | 0.802 |
| 6527 | NM_014227,XM_00 | **SLC5A4** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6528 | NM_000453,XM_01 | **SLC5A5** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6529 | NM_001348250,NM | **SLC6A1** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6530 | NM_001043,NM_00 | **SLC6A2** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6531 | NM_001044 | **SLC6A3** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6532 | NM_001045 | **SLC6A4** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 6533 | NM_001134367,NM | **SLC6A6** | solute carrier family 6 me | protein_coding | 43 | 26 | 44 | 27 | 0.620 |
| 6534 | NM_014228,XM_01 | **SLC6A7** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6535 | NM_001142805,NM | **SLC6A8** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6536 | NM_001024845,NM | **SLC6A9** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6538 | NM_001317406,NM | **SLC6A11** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6539 | NM_001122847,NM | **SLC6A12** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6540 | NM_001190997,NM | **SLC6A13** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6541 | NM_003045,XM_00 | **SLC7A1** | solute carrier family 7 me | protein_coding | 114 | 105 | 115 | 106 | 0.917 |
| 6542 | NM_001008539,NM | **SLC7A2** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6543 | NM_015063,XM_00 | **SLC8A2** | solute carrier family 8 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6545 | NM_004173 | **SLC7A4** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6546 | NM_001112800,NM | **SLC8A1** | solute carrier family 8 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6547 | NM_001130417,NM | **SLC8A3** | solute carrier family 8 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6548 | NM_003047,NR_04 | **SLC9A1** | solute carrier family 9 me | protein_coding | 22 | 21 | 23 | 22 | 0.977 |
| 6549 | NM_003048 | **SLC9A2** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6550 | NM_001284351,NM | **SLC9A3** | solute carrier family 9 me | protein_coding | 6 | 6 | 7 | 7 | 0.979 |
| 6551 | gene-SLC9A3P1 | **SLC9A3P1** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6553 | NM_001323971,NM | **SLC9A5** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 6554 | NM_003049 | **SLC10A1** | solute carrier family 10 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6555 | NM_000452 | **SLC10A2** | solute carrier family 10 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6556 | NM_000578,XM_00 | **SLC11A1** | solute carrier family 11 m | protein_coding | 0 | 0 | 1 | 1 | 1.046 |
| 6557 | NM_000338,NM_00 | **SLC12A1** | solute carrier family 12 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6558 | NM_001046,NM_00 | **SLC12A2** | solute carrier family 12 m | protein_coding | 7 | 6 | 8 | 7 | 0.877 |
| 6559 | NM_000339,NM_00 | **SLC12A3** | solute carrier family 12 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6560 | NM_001145961,NM | **SLC12A4** | solute carrier family 12 m | protein_coding | 1 | 0 | 2 | 1 | 0.856 |
| 6561 | NM_001324400,NM | **SLC13A1** | solute carrier family 13 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6563 | NM_001128588,NM | **SLC14A1** | solute carrier family 14 m | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 6564 | NM_005073 | **SLC15A1** | solute carrier family 15 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6565 | NM_001145998,NM | **SLC15A2** | solute carrier family 15 m | protein_coding | 0 | 1 | 1 | 2 | 1.155 |
| 6566 | NM_001166496,NM | **SLC16A1** | solute carrier family 16 m | protein_coding | 167 | 155 | 168 | 156 | 0.931 |
| 6567 | NM_006517 | **SLC16A2** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6568 | NM_005074,XM_01 | **SLC17A1** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6569 | NM_001167579,NM | **SLC34A1** | solute carrier family 34 m | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 6570 | NM_001135691,NM | **SLC18A1** | solute carrier family 18 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6571 | NM_003054 | **SLC18A2** | solute carrier family 18 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6572 | NM_003055 | **SLC18A3** | solute carrier family 18 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6573 | NM_001205206,NM | **SLC19A1** | solute carrier family 19 m | protein_coding | 35 | 37 | 36 | 38 | 1.045 |
| 6574 | NM_005415,XM_01 | **SLC20A1** | solute carrier family 20 m | protein_coding | 176 | 180 | 177 | 181 | 1.023 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6575 | NM_001257180,NM | **SLC20A2** | solute carrier family 20 m | protein_coding | 23 | 23 | 24 | 24 | 0.994 |
| 6576 | NM_001256534,NM | **SLC25A1** | solute carrier family 25 m | protein_coding | 15 | 15 | 16 | 16 | 0.987 |
| 6578 | NM_005630,XM_01 | **SLCO2A1** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6579 | NM_021094,NM_13 | **SLCO1A2** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6580 | NM_003057,NM_15 | **SLC22A1** | solute carrier family 22 m | protein_coding | 1 | 0 | 2 | 1 | 0.918 |
| 6581 | NM_021977,XM_00 | **SLC22A3** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6582 | NM_003058 | **SLC22A2** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6583 | NM_003059,XM_00 | **SLC22A4** | solute carrier family 22 m | protein_coding | 1 | 0 | 2 | 1 | 0.891 |
| 6584 | NM_001308122,NM | **SLC22A5** | solute carrier family 22 m | protein_coding | 3 | 3 | 4 | 4 | 0.959 |
| 6585 | NM_003061 | **SLIT1** | slit guidance ligand 1 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 6586 | NM_001271946,NM | **SLIT3** | slit guidance ligand 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6588 | NM_003063 | **SLN** | sarcolipin | protein_coding | 0 | 0 | 1 | 1 | 1.192 |
| 6590 | NM_003064 | **SLPI** | secretory leukocyte pept | protein_coding | 2 | 1 | 3 | 2 | 0.662 |
| 6591 | NM_003068 | **SNAI2** | snail family transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6594 | NM_001282874,NM | **SMARCA1** | SWI/SNF related, matrix | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6595 | NM_001289396,NM | **SMARCA2** | SWI/SNF related, matrix | protein_coding | 33 | 33 | 34 | 34 | 0.974 |
| 6596 | NM_001318934,NM | **HLTF** | helicase like transcriptior | protein_coding | 65 | 46 | 66 | 47 | 0.719 |
| 6597 | NM_001128844,NM | **SMARCA4** | SWI/SNF related, matrix | protein_coding | 146 | 151 | 147 | 152 | 1.032 |
| 6598 | NM_001007468,NM | **SMARCB1** | SWI/SNF related, matrix | protein_coding | 21 | 23 | 22 | 24 | 1.071 |
| 6599 | NM_003074 | **SMARCC1** | SWI/SNF related, matrix | protein_coding | 76 | 69 | 77 | 70 | 0.914 |
| 6601 | NM_001130420,NM | **SMARCC2** | SWI/SNF related, matrix | protein_coding | 58 | 61 | 59 | 62 | 1.041 |
| 6602 | NM_003076,NM_13 | **SMARCD1** | SWI/SNF related, matrix | protein_coding | 72 | 70 | 73 | 71 | 0.977 |
| 6603 | NM_001098426,NM | **SMARCD2** | SWI/SNF related, matrix | protein_coding | 97 | 98 | 98 | 99 | 1.002 |
| 6604 | NM_001003801,NM | **SMARCD3** | SWI/SNF related, matrix | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6605 | NM_003079 | **SMARCE1** | SWI/SNF related, matrix | protein_coding | 67 | 66 | 68 | 67 | 0.971 |
| 6606 | NM_000344,NM_00 | **SMN1** | survival of motor neuron | protein_coding | 171 | 158 | 172 | 159 | 0.922 |
| 6607 | NM_017411,NM_02 | **SMN2** | survival of motor neuron | protein_coding | 184 | 170 | 185 | 171 | 0.921 |
| 6608 | NM_005631,XM_02 | **SMO** | smoothened, frizzled cla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6609 | NM_000543,NM_00 | **SMPD1** | sphingomyelin phosphoc | protein_coding | 23 | 22 | 24 | 23 | 0.972 |
| 6610 | NM_003080,XM_00 | **SMPD2** | sphingomyelin phosphoc | protein_coding | 9 | 8 | 10 | 9 | 0.906 |
| 6611 | NM_001258423,NM | **SMS** | spermine synthase | protein_coding | 153 | 140 | 154 | 141 | 0.917 |
| 6612 | NM_001286416,NM | **SUMO3** | small ubiquitin like modif | protein_coding | 133 | 139 | 134 | 140 | 1.043 |
| 6613 | NM_001005849,NM | **SUMO2** | small ubiquitin like modif | protein_coding | 215 | 207 | 216 | 208 | 0.962 |
| 6614 | NM_001367089,NM | **SIGLEC1** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6615 | NM_005985 | **SNAI1** | snail family transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6616 | NM_001322902,NM | **SNAP25** | synaptosome associated | protein_coding | 3 | 2 | 4 | 3 | 0.663 |
| 6617 | NM_003082 | **SNAPC1** | small nuclear RNA activa | protein_coding | 12 | 12 | 13 | 13 | 0.933 |
| 6618 | NM_003083,NR_03 | **SNAPC2** | small nuclear RNA activa | protein_coding | 19 | 21 | 20 | 22 | 1.135 |
| 6619 | NM_001039697,NM | **SNAPC3** | small nuclear RNA activa | protein_coding | 19 | 16 | 20 | 17 | 0.871 |
| 6620 | NM_001001502,NM | **SNCB** | synuclein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6621 | NM_003086,XM_00 | **SNAPC4** | small nuclear RNA activa | protein_coding | 9 | 8 | 10 | 9 | 0.950 |
| 6622 | NM_000345,NM_00 | **SNCA** | synuclein alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6623 | NM_001330120,NM | **SNCG** | synuclein gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6624 | NM_003088 | **FSCN1** | fascin actin-bundling pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6625 | NM_001301069,NM | **SNRNP70** | small nuclear ribonucleo | protein_coding | 267 | 291 | 268 | 292 | 1.091 |
| 6626 | NM_004596 | **SNRPA** | small nuclear ribonucleo | protein_coding | 238 | 240 | 239 | 241 | 1.007 |
| 6627 | NM_003090,NR_13 | **SNRPA1** | small nuclear ribonucleo | protein_coding | 679 | 674 | 680 | 675 | 0.993 |
| 6628 | NM_003091,NM_19 | **SNRPB** | small nuclear ribonucleo | protein_coding | 686 | 710 | 687 | 711 | 1.036 |
| 6629 | NM_003092,NM_19 | **SNRPB2** | small nuclear ribonucleo | protein_coding | 154 | 147 | 155 | 148 | 0.960 |
| 6631 | NM_003093,NR_02 | **SNRPC** | small nuclear ribonucleo | protein_coding | 519 | 535 | 520 | 536 | 1.031 |
| 6632 | NM_001291916,NM | **SNRPD1** | small nuclear ribonucleo | protein_coding | 92 | 95 | 93 | 96 | 1.031 |
| 6633 | NM_001369751,NM | **SNRPD2** | small nuclear ribonucleo | protein_coding | 665 | 765 | 666 | 766 | 1.150 |
| 6634 | NM_001278656,NM | **SNRPD3** | small nuclear ribonucleo | protein_coding | 127 | 130 | 128 | 131 | 1.019 |
| 6635 | NM_001304464,NM | **SNRPE** | small nuclear ribonucleo | protein_coding | 121 | 129 | 122 | 130 | 1.069 |
| 6636 | NM_003095 | **SNRPF** | small nuclear ribonucleo | protein_coding | 201 | 201 | 202 | 202 | 1.001 |
| 6637 | NM_001317165,NM | **SNRPG** | small nuclear ribonucleo | protein_coding | 845 | 830 | 846 | 831 | 0.983 |
| 6638 | NM_001349454,NM | **SNRPN** | small nuclear ribonucleo | protein_coding | 24 | 28 | 25 | 29 | 1.124 |
| 6640 | NM_003098,XM_00 | **SNTA1** | syntrophin alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6641 | NM_021021,XM_01 | **SNTB1** | syntrophin beta 1 | protein_coding | 27 | 26 | 28 | 27 | 0.965 |
| 6642 | NM_001242933,NM | **SNX1** | sorting nexin 1 | protein_coding | 25 | 22 | 26 | 23 | 0.904 |
| 6643 | NM_001278199,NM | **SNX2** | sorting nexin 2 | protein_coding | 6 | 7 | 7 | 8 | 1.089 |
| 6644 | gene-SRIP1 | **SRIP1** | sorcin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6645 | NM_006750 | **SNTB2** | syntrophin beta 2 | protein_coding | 4 | 3 | 5 | 4 | 0.925 |
| 6646 | NM_001252511,NM | **SOAT1** | sterol O-acyltransferase | protein_coding | 39 | 36 | 40 | 37 | 0.923 |
| 6647 | NM_000454 | **SOD1** | superoxide dismutase 1 | protein_coding | 497 | 524 | 498 | 525 | 1.054 |
| 6648 | NM_000636,NM_00 | **SOD2** | superoxide dismutase 2 | protein_coding | 30 | 27 | 31 | 28 | 0.879 |
| 6649 | NM_003102,XR_42 | **SOD3** | superoxide dismutase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6650 | NM_005632,XM_01 | **CAPN15** | calpain 15 | protein_coding | 50 | 51 | 51 | 52 | 1.028 |
| 6651 | NM_001291411,NM | **SON** | SON DNA and RNA bind | protein_coding | 150 | 127 | 151 | 128 | 0.849 |
| 6652 | NM_003104,NR_03 | **SORD** | sorbitol dehydrogenase | protein_coding | 11 | 11 | 12 | 12 | 0.981 |
| 6653 | NM_003105 | **SORL1** | sortilin related receptor 1 | protein_coding | 1 | 1 | 2 | 2 | 0.890 |
| 6654 | NM_001382394,NM | **SOS1** | SOS Ras/Rac guanine n | protein_coding | 18 | 18 | 19 | 19 | 0.970 |
| 6655 | NM_006939 | **SOS2** | SOS Ras/Rho guanine n | protein_coding | 9 | 8 | 10 | 9 | 0.906 |
| 6656 | NM_005986 | **SOX1** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6657 | NM_003106 | **SOX2** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 6658 | NM_005634 | **SOX3** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6659 | NM_003107 | **SOX4** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6660 | NM_001261414,NM | **SOX5** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6661 | gene-SOX5P1 | **SOX5P1** | SOX5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6662 | NM_000346 | **SOX9** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6663 | NM_006941 | **SOX10** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6664 | NM_003108 | **SOX11** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6665 | NM_006942 | **SOX15** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 0.958 |
| 6666 | NM_006943 | **SOX12** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 0.943 |
| 6667 | NM_001251825,NM | **SP1** | Sp1 transcription factor | protein_coding | 34 | 28 | 35 | 29 | 0.831 |
| 6668 | NM_003110,XM_00 | **SP2** | Sp2 transcription factor | protein_coding | 21 | 22 | 22 | 23 | 1.054 |
| 6670 | NM_001017371,NM | **SP3** | Sp3 transcription factor | protein_coding | 43 | 35 | 44 | 36 | 0.820 |
| 6671 | NM_001326542,NM | **SP4** | Sp4 transcription factor | protein_coding | 11 | 9 | 12 | 10 | 0.768 |
| 6672 | NM_001080391,NM | **SP100** | SP100 nuclear antigen | protein_coding | 127 | 90 | 128 | 91 | 0.707 |
| 6674 | NM_001374321,NM | **SPAG1** | sperm associated antige | protein_coding | 7 | 6 | 8 | 7 | 0.921 |
| 6675 | NM_001324113,NM | **UAP1** | UDP-N-acetylglucosamir | protein_coding | 59 | 57 | 60 | 58 | 0.960 |
| 6676 | NM_001317931,NM | **SPAG4** | sperm associated antige | protein_coding | 0 | 1 | 1 | 2 | 1.106 |
| 6677 | NM_001174044,NM | **SPAM1** | sperm adhesion molecul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6678 | NM_001309443,NM | **SPARC** | secreted protein acidic a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6683 | NM_001363823,NM | **SPAST** | spastin | protein_coding | 13 | 11 | 14 | 12 | 0.868 |
| 6687 | NM_001363850,NM | **SPG7** | SPG7 matrix AAA peptid | protein_coding | 20 | 23 | 21 | 24 | 1.150 |
| 6688 | NM_001080547,NM | **SPI1** | Spi-1 proto-oncogene | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6689 | NM_001243998,NM | **SPIB** | Spi-B transcription factor | protein_coding | 1 | 1 | 2 | 2 | 0.973 |
| 6690 | NM_001354966,NM | **SPINK1** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6691 | NM_001271718,NM | **SPINK2** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6692 | NM_001032367,NM | **SPINT1** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6693 | NM_001030288,NM | **SPN** | sialophorin | protein_coding | 96 | 87 | 97 | 88 | 0.913 |
| 6694 | NM_006944,XM_00 | **SPP2** | secreted phosphoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6695 | NM_004598 | **SPOCK1** | SPARC (osteonectin), cv | protein_coding | 8 | 6 | 9 | 7 | 0.845 |
| 6696 | NM_000582,NM_00 | **SPP1** | secreted phosphoprotein | protein_coding | 1 | 1 | 2 | 2 | 1.111 |
| 6697 | NM_003124 | **SPR** | sepiapterin reductase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6698 | NM_001199828,NM | **SPRR1A** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6699 | NM_003125 | **SPRR1B** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6700 | NM_005988 | **SPRR2A** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6701 | NM_001017418,XM | **SPRR2B** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6702 | NR_003062 | **SPRR2C** | small proline rich protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6703 | NM_001382248,NM | **SPRR2D** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6704 | NM_001024209 | **SPRR2E** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6705 | NM_001014450,NM | **SPRR2F** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6706 | NM_001014291,XM | **SPRR2G** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6707 | NM_001097589,NM | **SPRR3** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6708 | NM_003126,XM_01 | **SPTA1** | spectrin alpha, erythrocy | protein_coding | 1 | 1 | 2 | 2 | 0.905 |
| 6709 | NM_001130438,NM | **SPTAN1** | spectrin alpha, non-eryth | protein_coding | 77 | 74 | 78 | 75 | 0.961 |
| 6710 | NM_001024858,NM | **SPTB** | spectrin beta, erythrocyti | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 6711 | NM_003128,NM_17 | **SPTBN1** | spectrin beta, non-erythr | protein_coding | 8 | 8 | 9 | 9 | 1.003 |
| 6712 | NM_006946,XM_00 | **SPTBN2** | spectrin beta, non-erythr | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 6713 | NM_003129,XM_01 | **SQLE** | squalene epoxidase | protein_coding | 20 | 18 | 21 | 19 | 0.888 |
| 6714 | NM_005417,NM_19 | **SRC** | SRC proto-oncogene, nc | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 6715 | NM_001047,NM_00 | **SRD5A1** | steroid 5 alpha-reductas | protein_coding | 7 | 8 | 8 | 9 | 1.106 |
| 6716 | NM_000348,XM_01 | **SRD5A2** | steroid 5 alpha-reductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6717 | NM_001256891,NM | **SRI** | sorcin | protein_coding | 132 | 134 | 133 | 135 | 1.015 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6718 | NM_001190906,NM | **AKR1D1** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6719 | NR_028597 | **SRD5A1P1** | steroid 5 alpha-reductas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6720 | NM_001005291,NM | **SREBF1** | sterol regulatory elemen | protein_coding | 2 | 3 | 3 | 4 | 1.305 |
| 6721 | NM_004599,NR_10 | **SREBF2** | sterol regulatory elemen | protein_coding | 79 | 75 | 80 | 76 | 0.950 |
| 6722 | NM_001292001,NM | **SRF** | serum response factor | protein_coding | 80 | 80 | 81 | 81 | 0.998 |
| 6723 | NM_003132,XM_01 | **SRM** | spermidine synthase | protein_coding | 550 | 563 | 551 | 564 | 1.023 |
| 6725 | NM_080823 | **SRMS** | src-related kinase lacking | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6726 | NM_001130440,NM | **SRP9** | signal recognition particl | protein_coding | 468 | 438 | 469 | 439 | 0.936 |
| 6727 | NM_001309434,NM | **SRP14** | signal recognition particl | protein_coding | 709 | 744 | 710 | 745 | 1.049 |
| 6728 | NM_001204193,NM | **SRP19** | signal recognition particl | protein_coding | 58 | 51 | 59 | 52 | 0.874 |
| 6729 | NM_001146282,NM | **SRP54** | signal recognition particl | protein_coding | 94 | 89 | 95 | 90 | 0.953 |
| 6730 | NM_001260502,NM | **SRP68** | signal recognition particl | protein_coding | 112 | 119 | 113 | 120 | 1.063 |
| 6731 | NM_001267722,NM | **SRP72** | signal recognition particl | protein_coding | 115 | 105 | 116 | 106 | 0.915 |
| 6732 | NM_003137,NR_03 | **SRPK1** | SRSF protein kinase 1 | protein_coding | 134 | 115 | 135 | 116 | 0.860 |
| 6733 | NM_001278273,NM | **SRPK2** | SRSF protein kinase 2 | protein_coding | 20 | 17 | 21 | 18 | 0.835 |
| 6734 | NM_001177842,NM | **SRPRA** | SRP receptor subunit alp | protein_coding | 154 | 155 | 155 | 156 | 1.006 |
| 6736 | NM_003140 | **SRY** | sex determining region Y | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6737 | NM_003141 | **TRIM21** | tripartite motif containing | protein_coding | 58 | 55 | 59 | 56 | 0.960 |
| 6738 | NM_001042369,NM | **RO60** | Ro60, Y RNA binding pro | protein_coding | 20 | 20 | 21 | 21 | 0.972 |
| 6741 | NM_001294145,NM | **SSB** | small RNA binding exonu | protein_coding | 483 | 419 | 484 | 420 | 0.869 |
| 6742 | NM_001256510,NM | **SSBP1** | single stranded DNA bin | protein_coding | 430 | 431 | 431 | 432 | 1.000 |
| 6744 | NM_001130445,NM | **ITPRID2** | ITPR interacting domain | protein_coding | 2 | 2 | 3 | 3 | 0.772 |
| 6745 | NM_001292008,NM | **SSR1** | signal sequence recepto | protein_coding | 72 | 64 | 73 | 65 | 0.893 |
| 6746 | NM_003145 | **SSR2** | signal sequence recepto | protein_coding | 389 | 393 | 390 | 394 | 1.011 |
| 6747 | NM_001308197,NM | **SSR3** | signal sequence recepto | protein_coding | 83 | 75 | 84 | 76 | 0.905 |
| 6748 | NM_001204526,NM | **SSR4** | signal sequence recepto | protein_coding | 289 | 336 | 290 | 337 | 1.161 |
| 6749 | NM_003146,XM_01 | **SSRP1** | structure specific recogn | protein_coding | 409 | 401 | 410 | 402 | 0.981 |
| 6750 | NM_001048 | **SST** | somatostatin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6751 | NM_001049 | **SSTR1** | somatostatin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6752 | NM_001050 | **SSTR2** | somatostatin receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6753 | NM_001051,NM_00 | **SSTR3** | somatostatin receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 6754 | NM_001052 | **SSTR4** | somatostatin receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6755 | NM_001053,NM_00 | **SSTR5** | somatostatin receptor 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6756 | NM_001278691,NM | **SSX1** | SSX family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6757 | NM_001278697,NM | **SSX2** | SSX family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6758 | NM_021015,NM_17 | **SSX5** | SSX family member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6759 | NM_005636,NM_17 | **SSX4** | SSX family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6760 | NM_001007559,NM | **SS18** | SS18 subunit of BAF chr | protein_coding | 62 | 57 | 63 | 58 | 0.927 |
| 6764 | NM_001376495,NM | **DENND2B** | DENN domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.870 |
| 6767 | NM_001278589,NM | **ST13** | ST13 Hsp70 interacting p | protein_coding | 174 | 168 | 175 | 169 | 0.963 |
| 6768 | NM_021978 | **ST14** | suppression of tumorigen | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 6769 | NM_001292049,NM | **STAC** | SH3 and cysteine rich do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6770 | NM_000349 | **STAR** | steroidogenic acute regu | protein_coding | 0 | 0 | 1 | 1 | 1.078 |
| 6771 | gene-STARP1 | **STARP1** | steroidogenic acute regu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6772 | NM_007315,NM_13 | **STAT1** | signal transducer and ac | protein_coding | 231 | 208 | 232 | 209 | 0.903 |
| 6773 | NM_005419,NM_19 | **STAT2** | signal transducer and ac | protein_coding | 13 | 10 | 14 | 11 | 0.799 |
| 6774 | NM_001369512,NM | **STAT3** | signal transducer and ac | protein_coding | 52 | 46 | 53 | 47 | 0.893 |
| 6775 | NM_001243835,NM | **STAT4** | signal transducer and ac | protein_coding | 89 | 86 | 90 | 87 | 0.961 |
| 6776 | NM_001288718,NM | **STAT5A** | signal transducer and ac | protein_coding | 65 | 67 | 66 | 68 | 1.027 |
| 6777 | NM_012448,XM_00 | **STAT5B** | signal transducer and ac | protein_coding | 42 | 36 | 43 | 37 | 0.881 |
| 6778 | NM_001178078,NM | **STAT6** | signal transducer and ac | protein_coding | 31 | 30 | 32 | 31 | 0.973 |
| 6779 | NM_001009181,NM | **STATH** | statherin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6780 | NM_001037328,NM | **STAU1** | staufen double-stranded | protein_coding | 135 | 129 | 136 | 130 | 0.958 |
| 6781 | NM_003155 | **STC1** | stanniocalcin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6782 | NM_006948 | **HSPA13** | heat shock protein family | protein_coding | 52 | 43 | 53 | 44 | 0.829 |
| 6783 | NM_005420,XM_01 | **SULT1E1** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6785 | NM_022726 | **ELOVL4** | ELOVL fatty acid elonga | protein_coding | 11 | 10 | 12 | 11 | 0.874 |
| 6786 | NM_001277961,NM | **STIM1** | stromal interaction molec | protein_coding | 56 | 57 | 57 | 58 | 1.021 |
| 6787 | NM_001193533,NM | **NEK4** | NIMA related kinase 4 | protein_coding | 15 | 14 | 16 | 15 | 0.914 |
| 6788 | NM_001256312,NM | **STK3** | serine/threonine kinase 3 | protein_coding | 3 | 3 | 4 | 4 | 0.952 |
| 6789 | NM_001352385,NM | **STK4** | serine/threonine kinase 4 | protein_coding | 129 | 102 | 130 | 103 | 0.794 |
| 6790 | NM_001323303,NM | **AURKA** | aurora kinase A | protein_coding | 217 | 183 | 218 | 184 | 0.844 |
| 6791 | NR_001587 | **AURKAP1** | aurora kinase A pseudog | transcribed_pseu | 1 | 2 | 2 | 3 | 1.121 |
| 6792 | NM_001037343,NM | **CDKL5** | cyclin dependent kinase | protein_coding | 1 | 0 | 2 | 1 | 0.763 |
| 6793 | NM_005990,XM_01 | **STK10** | serine/threonine kinase 1 | protein_coding | 119 | 124 | 120 | 125 | 1.045 |
| 6794 | NM_000455 | **STK11** | serine/threonine kinase 1 | protein_coding | 59 | 64 | 60 | 65 | 1.085 |
| 6795 | NM_001015878,NM | **AURKC** | aurora kinase C | protein_coding | 1 | 1 | 2 | 2 | 0.816 |
| 6799 | NM_001054,NM_00 | **SULT1A2** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.380 |
| 6801 | NM_003162,XM_00 | **STRN** | striatin | protein_coding | 9 | 7 | 10 | 8 | 0.783 |
| 6803 | gene-STSP1 | **STSP1** | steroid sulfatase (microso | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6804 | NM_001165903,NM | **STX1A** | syntaxin 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6809 | NM_001178040,NM | **STX3** | syntaxin 3 | protein_coding | 155 | 156 | 156 | 157 | 1.001 |
| 6810 | NM_001272095,NM | **STX4** | syntaxin 4 | protein_coding | 32 | 36 | 33 | 37 | 1.130 |
| 6811 | NM_001244666,NM | **STX5** | syntaxin 5 | protein_coding | 25 | 26 | 26 | 27 | 1.023 |
| 6812 | NM_001032221,NM | **STXBP1** | syntaxin binding protein | protein_coding | 8 | 8 | 9 | 9 | 0.953 |
| 6813 | NM_001127396,NM | **STXBP2** | syntaxin binding protein | protein_coding | 62 | 65 | 63 | 66 | 1.046 |
| 6814 | NM_007269 | **STXBP3** | syntaxin binding protein | protein_coding | 64 | 56 | 65 | 57 | 0.869 |
| 6815 | NM_001130701,NM | **STYX** | serine/threonine/tyrosine | protein_coding | 20 | 17 | 21 | 18 | 0.885 |
| 6817 | NM_001055,NM_17 | **SULT1A1** | sulfotransferase family 1 | protein_coding | 7 | 8 | 8 | 9 | 1.101 |
| 6818 | NM_177552 | **SULT1A3** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 0.860 |
| 6819 | NM_001056,NM_17 | **SULT1C2** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6820 | NM_004605,NM_17 | **SULT2B1** | sulfotransferase family 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6821 | NM_000456,NM_00 | **SUOX** | sulfite oxidase | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 6822 | NM_003167 | **SULT2A1** | sulfotransferase family 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6824 | gene-ETF1P1 | **ETF1P1** | eukaryotic translation ter | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 6825 | gene-ETF1P2 | **ETF1P2** | eukaryotic translation ter | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 6827 | NM_003168,NR_07 | **SUPT4H1** | SPT4 homolog, DSIF elo | protein_coding | 107 | 109 | 108 | 110 | 1.017 |
| 6829 | NM_001111020,NM | **SUPT5H** | SPT5 homolog, DSIF elo | protein_coding | 179 | 192 | 180 | 193 | 1.070 |
| 6830 | NM_001320755,NM | **SUPT6H** | SPT6 homolog, histone c | protein_coding | 102 | 97 | 103 | 98 | 0.954 |
| 6832 | NM_001301683,NM | **SUPV3L1** | Suv3 like RNA helicase | protein_coding | 79 | 78 | 80 | 79 | 0.998 |
| 6833 | NM_000352,NM_00 | **ABCC8** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6834 | NM_001280787,NM | **SURF1** | SURF1 cytochrome c oxi | protein_coding | 27 | 31 | 28 | 32 | 1.139 |
| 6835 | NM_001278928,NM | **SURF2** | surfeit 2 | protein_coding | 54 | 57 | 55 | 58 | 1.057 |
| 6836 | NM_001280788,NM | **SURF4** | surfeit 4 | protein_coding | 232 | 231 | 233 | 232 | 0.994 |
| 6837 | NM_133640,NM_18 | **MED22** | mediator complex subun | protein_coding | 38 | 38 | 39 | 39 | 0.997 |
| 6838 | NM_001278942,NM | **SURF6** | surfeit 6 | protein_coding | 27 | 26 | 28 | 27 | 0.980 |
| 6839 | NM_001282166,NM | **SUV39H1** | suppressor of variegation | protein_coding | 36 | 38 | 37 | 39 | 1.055 |
| 6840 | NM_001323599,NM | **SVIL** | supervillin | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 6843 | NM_001297438,NM | **VAMP1** | vesicle associated memb | protein_coding | 11 | 10 | 12 | 11 | 0.935 |
| 6844 | NM_001330125,NM | **VAMP2** | vesicle associated memb | protein_coding | 18 | 22 | 19 | 23 | 1.187 |
| 6845 | NM_001145149,NM | **VAMP7** | vesicle associated memb | protein_coding | 44 | 36 | 45 | 37 | 0.818 |
| 6846 | NM_003175 | **XCL2** | X-C motif chemokine liga | protein_coding | 110 | 127 | 111 | 128 | 1.153 |
| 6847 | NM_001282541,NM | **SYCP1** | synaptonemal complex p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6850 | NM_001135052,NM | **SYK** | spleen associated tyrosin | protein_coding | 6 | 6 | 7 | 7 | 0.961 |
| 6853 | NM_006950,NM_13 | **SYN1** | synapsin I | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 6854 | NM_003178,NM_13 | **SYN2** | synapsin II | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6855 | NM_003179 | **SYP** | synaptophysin | protein_coding | 3 | 5 | 4 | 6 | 1.313 |
| 6856 | NM_001381910,NM | **SYPL1** | synaptophysin like 1 | protein_coding | 110 | 98 | 111 | 99 | 0.899 |
| 6857 | NM_001135805,NM | **SYT1** | synaptotagmin 1 | protein_coding | 3 | 3 | 4 | 4 | 0.930 |
| 6860 | NM_020783 | **SYT4** | synaptotagmin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6861 | NM_001297774,NM | **SYT5** | synaptotagmin 5 | protein_coding | 0 | 1 | 1 | 2 | 1.242 |
| 6862 | NM_001270484,NM | **TBXT** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6863 | NM_003182,NM_01 | **TAC1** | tachykinin precursor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6865 | NM_001057 | **TACR2** | tachykinin receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6866 | NM_001178054,NM | **TAC3** | tachykinin precursor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6867 | NM_001122824,NM | **TACC1** | transforming acidic coile | protein_coding | 129 | 106 | 130 | 107 | 0.824 |
| 6868 | NM_001382777,NM | **ADAM17** | ADAM metallopeptidase | protein_coding | 25 | 23 | 26 | 24 | 0.917 |
| 6869 | NM_001058,NM_01 | **TACR1** | tachykinin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6870 | NM_001059 | **TACR3** | tachykinin receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6871 | NM_001166105,NM | **TADA2A** | transcriptional adaptor 2 | protein_coding | 14 | 15 | 15 | 16 | 1.049 |
| 6872 | NM_001286074,NM | **TAF1** | TATA-box binding protein | protein_coding | 32 | 30 | 33 | 31 | 0.931 |
| 6873 | NM_003184,XM_00 | **TAF2** | TATA-box binding protein | protein_coding | 56 | 49 | 57 | 50 | 0.872 |
| 6874 | NM_003185 | **TAF4** | TATA-box binding protein | protein_coding | 24 | 23 | 25 | 24 | 0.941 |
| 6875 | NM_001293725,NM | **TAF4B** | TATA-box binding protein | protein_coding | 14 | 11 | 15 | 12 | 0.806 |
| 6876 | NM_001001522,NM | **TAGLN** | transgelin | protein_coding | 0 | 0 | 1 | 1 | 0.889 |
| 6877 | NM_006951,NM_13 | **TAF5** | TATA-box binding protein | protein_coding | 23 | 21 | 24 | 22 | 0.912 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6878 | NM_001190415,NM | **TAF6** | TATA-box binding protein | protein_coding | 66 | 73 | 67 | 74 | 1.110 |
| 6879 | NM_005642 | **TAF7** | TATA-box binding protein | protein_coding | 163 | 148 | 164 | 149 | 0.910 |
| 6880 | NM_001015892,NM | **TAF9** | TATA-box binding protein | protein_coding | 84 | 89 | 85 | 90 | 1.057 |
| 6881 | NM_006284 | **TAF10** | TATA-box binding protein | protein_coding | 29 | 33 | 30 | 34 | 1.147 |
| 6882 | NM_001270488,NM | **TAF11** | TATA-box binding protein | protein_coding | 83 | 79 | 84 | 80 | 0.956 |
| 6883 | NM_001135218,NM | **TAF12** | TATA-box binding protein | protein_coding | 64 | 68 | 65 | 69 | 1.062 |
| 6884 | NM_005645 | **TAF13** | TATA-box binding protein | protein_coding | 70 | 75 | 71 | 76 | 1.080 |
| 6885 | NM_003188,NM_14 | **MAP3K7** | mitogen-activated protein | protein_coding | 43 | 40 | 44 | 41 | 0.920 |
| 6886 | NM_001287347,NM | **TAL1** | TAL bHLH transcription f | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 6887 | NM_005421 | **TAL2** | TAL bHLH transcription f | protein_coding | 0 | 1 | 1 | 2 | 1.160 |
| 6888 | NM_006755 | **TALDO1** | transaldolase 1 | protein_coding | 212 | 212 | 213 | 213 | 1.001 |
| 6889 | gene-TALDO1P1 | **TALDO1P1** | transaldolase 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6890 | NM_000593,NM_00 | **TAP1** | transporter 1, ATP bindir | protein_coding | 309 | 301 | 310 | 302 | 0.975 |
| 6891 | NM_001290043,NM | **TAP2** | transporter 2, ATP bindir | protein_coding | 167 | 155 | 168 | 156 | 0.930 |
| 6892 | NM_003190,NM_17 | **TAPBP** | TAP binding protein | protein_coding | 141 | 142 | 142 | 143 | 1.004 |
| 6894 | NM_005646,XM_00 | **TARBP1** | TAR (HIV-1) RNA binding | protein_coding | 12 | 11 | 13 | 12 | 0.908 |
| 6895 | NM_004178,NM_13 | **TARBP2** | TARBP2 subunit of RISC | protein_coding | 37 | 42 | 38 | 43 | 1.123 |
| 6896 | gene-TARBP2P1 | **TARBP2P1** | TARBP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6897 | NM_001258437,NM | **TARS1** | threonyl-tRNA synthetas | protein_coding | 287 | 251 | 288 | 252 | 0.874 |
| 6898 | NM_000353 | **TAT** | tyrosine aminotransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6899 | NM_001379200,NM | **TBX1** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6900 | NM_001346083,NM | **CNTN2** | contactin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6901 | NM_000116,NM_00 | **TAZ** | tafazzin | protein_coding | 18 | 20 | 19 | 21 | 1.093 |
| 6902 | NM_001297738,NM | **TBCA** | tubulin folding cofactor A | protein_coding | 433 | 435 | 434 | 436 | 1.004 |
| 6903 | NM_003192 | **TBCC** | tubulin folding cofactor C | protein_coding | 39 | 42 | 40 | 43 | 1.093 |
| 6904 | NM_005993,XM_00 | **TBCD** | tubulin folding cofactor D | protein_coding | 21 | 24 | 22 | 25 | 1.116 |
| 6905 | NM_001079515,NM | **TBCE** | tubulin folding cofactor E | protein_coding | 12 | 13 | 13 | 14 | 1.092 |
| 6906 | NM_000354,XM_00 | **SERPINA7** | serpin family A member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6907 | NM_001139466,NM | **TBL1X** | transducin beta like 1 X-l | protein_coding | 42 | 36 | 43 | 37 | 0.849 |
| 6908 | NM_001172085,NM | **TBP** | TATA-box binding protein | protein_coding | 34 | 33 | 35 | 34 | 0.971 |
| 6909 | NM_005994 | **TBX2** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6910 | NM_000192,NM_08 | **TBX5** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6911 | NM_004608,XM_00 | **TBX6** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 6913 | NM_001330677,NM | **TBX15** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 6915 | NM_001060,NM_20 | **TBXA2R** | thromboxane A2 recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6916 | NM_001061,NM_00 | **TBXAS1** | thromboxane A synthase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6917 | NM_006756,NM_20 | **TCEA1** | transcription elongation f | protein_coding | 192 | 169 | 193 | 170 | 0.881 |
| 6918 | gene-TCEA1P1 | **TCEA1P1** | transcription elongation f | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6919 | NM_003195,NM_19 | **TCEA2** | transcription elongation f | protein_coding | 17 | 16 | 18 | 17 | 0.966 |
| 6920 | NM_003196,XM_00 | **TCEA3** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 6921 | NM_001204857,NM | **ELOC** | elongin C | protein_coding | 135 | 136 | 136 | 137 | 1.006 |
| 6922 | gene-SKP1P1 | **SKP1P1** | S-phase kinase associat | pseudogene | 1 | 1 | 2 | 2 | 0.866 |
| 6923 | NM_007108,NM_20 | **ELOB** | elongin B | protein_coding | 199 | 208 | 200 | 209 | 1.049 |
| 6924 | NM_003198 | **ELOA** | elongin A | protein_coding | 53 | 51 | 54 | 52 | 0.963 |
| 6925 | NM_001083962,NM | **TCF4** | transcription factor 4 | protein_coding | 6 | 6 | 7 | 7 | 0.939 |
| 6926 | NM_005996,NM_01 | **TBX3** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6927 | NM_000545,NM_00 | **HNF1A** | HNF1 homeobox A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6928 | NM_000458,NM_00 | **HNF1B** | HNF1 homeobox B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6929 | NM_001136139,NM | **TCF3** | transcription factor 3 | protein_coding | 73 | 69 | 74 | 70 | 0.949 |
| 6932 | NM_001134851,NM | **TCF7** | transcription factor 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6934 | NM_001146274,NM | **TCF7L2** | transcription factor 7 like | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 6935 | NM_001128128,NM | **ZEB1** | zinc finger E-box binding | protein_coding | 6 | 5 | 7 | 6 | 0.789 |
| 6936 | NM_001201334,NM | **GCFC2** | GC-rich sequence DNA-l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6938 | NM_001306219,NM | **TCF12** | transcription factor 12 | protein_coding | 42 | 37 | 43 | 38 | 0.883 |
| 6939 | NM_004609 | **TCF15** | transcription factor 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6940 | NM_001324339,NM | **ZNF354A** | zinc finger protein 354A | protein_coding | 9 | 9 | 10 | 10 | 0.919 |
| 6941 | NM_001077511,NM | **TCF19** | transcription factor 19 | protein_coding | 68 | 66 | 69 | 67 | 0.975 |
| 6942 | NM_001378418,NM | **TCF20** | transcription factor 20 | protein_coding | 29 | 25 | 30 | 26 | 0.868 |
| 6943 | NM_003206,NM_19 | **TCF21** | transcription factor 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6944 | NM_001271087,NM | **VPS72** | vacuolar protein sorting 7 | protein_coding | 72 | 74 | 73 | 75 | 1.028 |
| 6945 | NM_170607,NM_19 | **MLX** | MAX dimerization protein | protein_coding | 114 | 108 | 115 | 109 | 0.949 |
| 6947 | NM_001062 | **TCN1** | transcobalamin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6948 | NM_000355,NM_00 | **TCN2** | transcobalamin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6949 | NM_000356,NM_00 | **TCOF1** | treacle ribosome biogene | protein_coding | 206 | 198 | 207 | 199 | 0.963 |
| 6950 | NM_001008897,NM | **TCP1** | t-complex 1 | protein_coding | 465 | 449 | 466 | 450 | 0.966 |
| 6952 | gene-TCP1P2 | **TCP1P2** | t-complex 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 6953 | NR_163193,NR_16 | **TCP10L3** | t-complex 10 like 3, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6954 | NM_001261817,NM | **TCP11** | t-complex 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6956 | id-TRAV6 | **TRAV6** | T cell receptor alpha vari | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 6958 | id-TRBV29OR9-2 | **TRBV29OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6959 | id-TRBV21OR9-2 | **TRBV21OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6960 | id-TRBV25OR9-2 | **TRBV25OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6961 | id-TRBV24OR9-2 | **TRBV24OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6962 | id-TRBV20OR9-2 | **TRBV20OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6966 | id-TRGC1 | **TRGC1** | T cell receptor gamma cc | C_region | 2 | 0 | 3 | 1 | 0.411 |
| 6967 | id-TRGC2 | **TRGC2** | T cell receptor gamma cc | C_region | 3 | 6 | 4 | 7 | 1.590 |
| 6968 | id-TRGJ1 | **TRGJ1** | T cell receptor gamma jo | J_segment | 0 | 0 | 1 | 1 | 1.005 |
| 6969 | id-TRGJ2 | **TRGJ2** | T cell receptor gamma jo | J_segment | 1 | 1 | 2 | 2 | 1.068 |
| 6970 | id-TRGJP | **TRGJP** | T cell receptor gamma jo | J_segment | 0 | 0 | 1 | 1 | 1.005 |
| 6971 | id-TRGJP1 | **TRGJP1** | T cell receptor gamma jo | J_segment | 0 | 0 | 1 | 1 | 1.011 |
| 6972 | id-TRGJP2 | **TRGJP2** | T cell receptor gamma jo | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 6973 | id-TRGV1 | **TRGV1** | T cell receptor gamma va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6974 | id-TRGV2 | **TRGV2** | T cell receptor gamma va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 6975 | NM_058222 | **TECTB** | tectorin beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6976 | id-TRGV3 | **TRGV3** | T cell receptor gamma va | V_segment | 0 | 0 | 1 | 1 | 0.881 |
| 6977 | id-TRGV4 | **TRGV4** | T cell receptor gamma va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 6978 | id-TRGV5 | **TRGV5** | T cell receptor gamma va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 6979 | id-TRGV5P | **TRGV5P** | T cell receptor gamma va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6980 | id-TRGV6 | **TRGV6** | T cell receptor gamma va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6981 | id-TRGV7 | **TRGV7** | T cell receptor gamma va | V_segment_pseu | 19 | 19 | 20 | 20 | 1.009 |
| 6982 | id-TRGV8 | **TRGV8** | T cell receptor gamma va | V_segment | 7 | 7 | 8 | 8 | 0.967 |
| 6983 | id-TRGV9 | **TRGV9** | T cell receptor gamma va | V_segment | 18 | 17 | 19 | 18 | 0.977 |
| 6984 | id-TRGV10 | **TRGV10** | T cell receptor gamma va | V_segment_pseu | 9 | 10 | 10 | 11 | 1.102 |
| 6985 | id-TRGV11 | **TRGV11** | T cell receptor gamma va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6986 | id-TRGVA | **TRGVA** | T cell receptor gamma va | V_segment_pseu | 0 | 1 | 1 | 2 | 1.559 |
| 6987 | id-TRGVB | **TRGVB** | T cell receptor gamma va | V_segment_pseu | 0 | 0 | 1 | 1 | 0.677 |
| 6988 | NM_022171 | **TCTA** | T cell leukemia transloca | protein_coding | 48 | 51 | 49 | 52 | 1.054 |
| 6990 | NM_006520 | **DYNLT3** | dynein light chain Tctex-l | protein_coding | 24 | 18 | 25 | 19 | 0.768 |
| 6991 | NM_174910,NR_13 | **TCTE3** | t-complex-associated-tes | protein_coding | 5 | 6 | 6 | 7 | 1.090 |
| 6992 | NM_021959,XM_00 | **PPP1R11** | protein phosphatase 1 re | protein_coding | 74 | 76 | 75 | 77 | 1.028 |
| 6993 | NM_001291602,NM | **DYNLT1** | dynein light chain Tctex-l | protein_coding | 84 | 88 | 85 | 89 | 1.055 |
| 6996 | NM_001363612,NM | **TDG** | thymine DNA glycosylas | protein_coding | 88 | 72 | 89 | 73 | 0.824 |
| 6997 | NM_001174136,NM | **TDGF1** | teratocarcinoma-derived | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 6998 | NR_002718 | **TDGF1P3** | teratocarcinoma-derived | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 6999 | NM_005651 | **TDO2** | tryptophan 2,3-dioxygena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7001 | NM_005809 | **PRDX2** | peroxiredoxin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7002 | gene-PRDX1P1 | **PRDX1P1** | peroxiredoxin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7003 | NM_021961 | **TEAD1** | TEA domain transcriptior | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7004 | NM_003213,NM_20 | **TEAD4** | TEA domain transcriptior | protein_coding | 0 | 0 | 1 | 1 | 1.117 |
| 7005 | NM_003214 | **TEAD3** | TEA domain transcriptior | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7006 | NM_003215,XM_01 | **TEC** | tec protein tyrosine kinas | protein_coding | 2 | 1 | 3 | 2 | 0.676 |
| 7007 | NM_005422 | **TECTA** | tectorin alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7008 | NM_001145398,NM | **TEF** | TEF transcription factor, | protein_coding | 3 | 5 | 4 | 6 | 1.368 |
| 7009 | NM_001098576,NM | **TMBIM6** | transmembrane BAX inh | protein_coding | 313 | 299 | 314 | 300 | 0.956 |
| 7010 | NM_000459,NM_00 | **TEK** | TEK receptor tyrosine kir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7011 | NM_001319035,NM | **TEP1** | telomerase associated pı | protein_coding | 3 | 3 | 4 | 4 | 0.886 |
| 7012 | NR_001566 | **TERC** | telomerase RNA compon | telomerase_RNA | 0 | 0 | 1 | 1 | 0.788 |
| 7013 | NM_003218,NM_01 | **TERF1** | telomeric repeat binding | protein_coding | 43 | 42 | 44 | 43 | 0.977 |
| 7014 | NM_005652,XM_00 | **TERF2** | telomeric repeat binding | protein_coding | 37 | 35 | 38 | 36 | 0.942 |
| 7015 | NM_001193376,NM | **TERT** | telomerase reverse trans | protein_coding | 3 | 3 | 4 | 4 | 1.127 |
| 7016 | NM_001318230,NM | **TESK1** | testis associated actin re | protein_coding | 15 | 16 | 16 | 17 | 1.034 |
| 7018 | NM_001063,NM_00 | **TF** | transferrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7019 | NM_001270782,NM | **TFAM** | transcription factor A, mit | protein_coding | 77 | 68 | 78 | 69 | 0.881 |
| 7020 | NM_001032280,NM | **TFAP2A** | transcription factor AP-2 | protein_coding | 3 | 3 | 4 | 4 | 0.970 |
| 7021 | NM_003221,XM_01 | **TFAP2B** | transcription factor AP-2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7022 | NM_003222 | **TFAP2C** | transcription factor AP-2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7023 | NM_003223,XM_01: | **TFAP4** | transcription factor AP-4 | protein_coding | 30 | 32 | 31 | 33 | 1.058 |
| 7024 | NM_001173452,NM | **TFCP2** | transcription factor CP2 | protein_coding | 36 | 34 | 37 | 35 | 0.955 |
| 7025 | NM_005654,XM_01 | **NR2F1** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.126 |
| 7026 | NM_001145155,NM | **NR2F2** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 7027 | NM_007111,NR_02 | **TFDP1** | transcription factor Dp-1 | protein_coding | 429 | 414 | 430 | 415 | 0.966 |
| 7029 | NM_001178138,NM | **TFDP2** | transcription factor Dp-2 | protein_coding | 7 | 6 | 8 | 7 | 0.922 |
| 7030 | NM_001282142,NM | **TFE3** | transcription factor bindi | protein_coding | 27 | 26 | 28 | 27 | 0.948 |
| 7031 | NM_003225 | **TFF1** | trefoil factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7032 | NM_005423 | **TFF2** | trefoil factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7033 | NM_003226 | **TFF3** | trefoil factor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7035 | NM_001032281,NM | **TFPI** | tissue factor pathway inh | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 7036 | NM_001206855,NM | **TFR2** | transferrin receptor 2 | protein_coding | 11 | 12 | 12 | 13 | 1.013 |
| 7037 | NM_001128148,NM | **TFRC** | transferrin receptor | protein_coding | 184 | 184 | 185 | 185 | 1.000 |
| 7038 | NM_003235,XM_00 | **TG** | thyroglobulin | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 7039 | NM_001099691,NM | **TGFA** | transforming growth fact | protein_coding | 1 | 1 | 2 | 2 | 0.693 |
| 7040 | NM_000660,XM_01 | **TGFB1** | transforming growth fact | protein_coding | 202 | 216 | 203 | 217 | 1.067 |
| 7041 | NM_001042454,NM | **TGFB1I1** | transforming growth fact | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 7042 | NM_001135599,NM | **TGFB2** | transforming growth fact | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 7043 | NM_001329938,NM | **TGFB3** | transforming growth fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7044 | NM_001172425,NM | **LEFTY2** | left-right determination fa | protein_coding | 0 | 0 | 1 | 1 | 0.958 |
| 7045 | NM_000358 | **TGFBI** | transforming growth fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7046 | NM_001130916,NM | **TGFBR1** | transforming growth fact | protein_coding | 43 | 37 | 44 | 38 | 0.867 |
| 7047 | NM_003241,XM_01 | **TGM4** | transglutaminase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7048 | NM_001024847,NM | **TGFBR2** | transforming growth fact | protein_coding | 19 | 17 | 20 | 18 | 0.873 |
| 7049 | NM_001195683,NM | **TGFBR3** | transforming growth fact | protein_coding | 5 | 4 | 6 | 5 | 0.930 |
| 7050 | NM_001278682,NM | **TGIF1** | TGFB induced factor hor | protein_coding | 13 | 13 | 14 | 14 | 0.961 |
| 7051 | NM_000359 | **TGM1** | transglutaminase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.201 |
| 7052 | NM_001323316,NM | **TGM2** | transglutaminase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7053 | NM_003245 | **TGM3** | transglutaminase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7054 | NM_000360,NM_19 | **TH** | tyrosine hydroxylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7056 | NM_000361 | **THBD** | thrombomodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7057 | NM_003246,XM_01 | **THBS1** | thrombospondin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 7058 | NM_001381939,NM | **THBS2** | thrombospondin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7059 | NM_001252607,NM | **THBS3** | thrombospondin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.915 |
| 7060 | NM_001306212,NM | **THBS4** | thrombospondin 4 | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 7062 | NM_007113 | **TCHH** | trichohyalin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7064 | NM_003249,XM_01 | **THOP1** | thimet oligopeptidase 1 | protein_coding | 91 | 90 | 92 | 91 | 0.992 |
| 7066 | NM_000460,NM_00 | **THPO** | thrombopoietin | protein_coding | 13 | 12 | 14 | 13 | 0.936 |
| 7067 | NM_001190918,NM | **THRA** | thyroid hormone recepto | protein_coding | 2 | 1 | 3 | 2 | 0.913 |
| 7068 | NM_000461,NM_00 | **THRB** | thyroid hormone recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7069 | NM_003251 | **THRSP** | thyroid hormone respons | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7070 | NM_001311160,NM | **THY1** | Thy-1 cell surface antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7071 | NM_001032282,NM | **KLF10** | Kruppel like factor 10 | protein_coding | 34 | 35 | 35 | 36 | 1.033 |
| 7072 | NM_001351508,NM | **TIA1** | TIA1 cytotoxic granule as | protein_coding | 56 | 48 | 57 | 49 | 0.858 |
| 7073 | NM_001033925,NM | **TIAL1** | TIA1 cytotoxic granule as | protein_coding | 62 | 60 | 63 | 61 | 0.967 |
| 7074 | NM_001353684,NM | **TIAM1** | TIAM Rac1 associated G | protein_coding | 7 | 6 | 8 | 7 | 0.840 |
| 7075 | NM_001253357,NM | **TIE1** | tyrosine kinase with imm | protein_coding | 2 | 2 | 3 | 3 | 1.062 |
| 7076 | NM_003254,XM_01 | **TIMP1** | TIMP metallopeptidase ir | protein_coding | 152 | 170 | 153 | 171 | 1.118 |
| 7077 | NM_003255 | **TIMP2** | TIMP metallopeptidase ir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7078 | NM_000362 | **TIMP3** | TIMP metallopeptidase ir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7079 | NM_003256 | **TIMP4** | TIMP metallopeptidase ir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7080 | NM_001079668,NM | **NKX2-1** | NK2 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7082 | NM_001301025,NM | **TJP1** | tight junction protein 1 | protein_coding | 23 | 21 | 24 | 22 | 0.921 |
| 7083 | NM_001346663,NM | **TK1** | thymidine kinase 1 | protein_coding | 166 | 191 | 167 | 192 | 1.148 |
| 7084 | NM_001172643,NM | **TK2** | thymidine kinase 2 | protein_coding | 2 | 2 | 3 | 3 | 1.165 |
| 7086 | NM_001064,NM_00 | **TKT** | transketolase | protein_coding | 264 | 266 | 265 | 267 | 1.008 |
| 7087 | NM_003259,XM_01 | **ICAM5** | intercellular adhesion mo | protein_coding | 1 | 1 | 2 | 2 | 1.072 |
| 7088 | NM_001303103,NM | **TLE1** | TLE family member 1, tra | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 7089 | NM_001144761,NM | **TLE2** | TLE family member 2, tra | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 7090 | NM_001105192,NM | **TLE3** | TLE family member 3, tra | protein_coding | 36 | 30 | 37 | 31 | 0.853 |
| 7091 | NM_001282748,NM | **TLE4** | TLE family member 4, tra | protein_coding | 4 | 4 | 5 | 5 | 0.911 |
| 7092 | NM_001204760,NM | **TLL1** | tolloid like 1 | protein_coding | 1 | 1 | 2 | 2 | 0.975 |
| 7093 | NM_012465 | **TLL2** | tolloid like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 7094 | NM_006289 | **TLN1** | talin 1 | protein_coding | 85 | 79 | 86 | 80 | 0.931 |
| 7095 | NM_003262,XM_01 | **SEC62** | SEC62 homolog, preprot | protein_coding | 38 | 32 | 39 | 33 | 0.830 |
| 7096 | NM_003263,XM_00 | **TLR1** | toll like receptor 1 | protein_coding | 1 | 1 | 2 | 2 | 0.893 |
| 7097 | NM_001318787,NM | **TLR2** | toll like receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7098 | NM_003265 | **TLR3** | toll like receptor 3 | protein_coding | 6 | 4 | 7 | 5 | 0.831 |
| 7099 | NM_003266,NM_13 | **TLR4** | toll like receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7100 | NM_003268,XM_00 | **TLR5** | toll like receptor 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7101 | NM_001286102,NM | **NR2E1** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7102 | NM_004615 | **TSPAN7** | tetraspanin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7103 | NM_001369760,NM | **TSPAN8** | tetraspanin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7104 | NM_004617 | **TM4SF4** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7105 | NM_001278740,NM | **TSPAN6** | tetraspanin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7106 | NM_001025234,NM | **TSPAN4** | tetraspanin 4 | protein_coding | 2 | 2 | 3 | 3 | 0.825 |
| 7107 | NM_003272,XM_01 | **GPR137B** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7108 | NM_001277233,NM | **TM7SF2** | transmembrane 7 superf | protein_coding | 4 | 5 | 5 | 6 | 1.056 |
| 7109 | NM_001351709,NM | **TRAPPC10** | trafficking protein particl | protein_coding | 30 | 26 | 31 | 27 | 0.880 |
| 7110 | NM_001363879,NM | **TMF1** | TATA element modulator | protein_coding | 13 | 12 | 14 | 13 | 0.947 |
| 7111 | NM_001166116,NM | **TMOD1** | tropomodulin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7112 | NM_001032283,NM | **TMPO** | thymopoietin | protein_coding | 199 | 183 | 200 | 184 | 0.924 |
| 7113 | NM_001135099,NM | **TMPRSS2** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7114 | NM_021109 | **TMSB4X** | thymosin beta 4 X-linked | protein_coding | 14,859 | 15,469 | 14,860 | 15,470 | 1.041 |
| 7115 | gene-TMSB4XP1 | **TMSB4XP1** | TMSB4X pseudogene 1 | pseudogene | 16 | 18 | 17 | 19 | 1.171 |
| 7116 | gene-TMSB4XP2 | **TMSB4XP2** | TMSB4X pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 7117 | gene-TMSB4XP8 | **TMSB4XP8** | TMSB4X pseudogene 8 | pseudogene | 327 | 386 | 328 | 387 | 1.181 |
| 7118 | gene-TMSB4XP4 | **TMSB4XP4** | TMSB4X pseudogene 4 | pseudogene | 2 | 2 | 3 | 3 | 1.249 |
| 7119 | gene-TMSB4XP5 | **TMSB4XP5** | TMSB4X pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 0.922 |
| 7120 | gene-TMSB4XP6 | **TMSB4XP6** | TMSB4X pseudogene 6 | pseudogene | 3 | 3 | 4 | 4 | 1.053 |
| 7121 | gene-TMSB4XP7 | **TMSB4XP7** | TMSB4X pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7122 | NM_001130861,NM | **CLDN5** | claudin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7123 | NM_001308394,NM | **CLEC3B** | C-type lectin domain fam | protein_coding | 1 | 1 | 2 | 2 | 0.954 |
| 7124 | NM_000594 | **TNF** | tumor necrosis factor | protein_coding | 0 | 1 | 1 | 2 | 1.060 |
| 7125 | NM_003279,XM_01 | **TNNC2** | troponin C2, fast skeletal | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7126 | NM_021137,XM_01 | **TNFAIP1** | TNF alpha induced prote | protein_coding | 11 | 12 | 12 | 13 | 1.064 |
| 7127 | NM_001371220,NM | **TNFAIP2** | TNF alpha induced prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7128 | NM_001270507,NM | **TNFAIP3** | TNF alpha induced prote | protein_coding | 6 | 5 | 7 | 6 | 0.896 |
| 7130 | NM_007115 | **TNFAIP6** | TNF alpha induced prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7132 | NM_001065,NM_00 | **TNFRSF1A** | TNF receptor superfamily | protein_coding | 79 | 84 | 80 | 85 | 1.063 |
| 7133 | NM_001066,XM_01 | **TNFRSF1B** | TNF receptor superfamily | protein_coding | 395 | 409 | 396 | 410 | 1.036 |
| 7134 | NM_003280 | **TNNC1** | troponin C1, slow skeleta | protein_coding | 0 | 1 | 1 | 2 | 2.255 |
| 7135 | NM_003281 | **TNNI1** | troponin I1, slow skeletal | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7136 | NM_001145829,NM | **TNNI2** | troponin I2, fast skeletal | protein_coding | 1 | 1 | 2 | 2 | 0.758 |
| 7137 | NM_000363 | **TNNI3** | troponin I3, cardiac type | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 7138 | NM_001126132,NM | **TNNT1** | troponin T1, slow skeleta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7139 | NM_000364,NM_00 | **TNNT2** | troponin T2, cardiac type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7140 | NM_001042780,NM | **TNNT3** | troponin T3, fast skeletal | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7141 | NM_003284 | **TNP1** | transition protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7142 | NM_005425 | **TNP2** | transition protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7143 | NM_001328635,NM | **TNR** | tenascin R | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7145 | NM_001308022,NM | **TNS1** | tensin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.871 |
| 7146 | NR_001284 | **TNXA** | tenascin XA (pseudogen | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7148 | NM_001365276,NM | **TNXB** | tenascin XB | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 7150 | NM_003286 | **TOP1** | DNA topoisomerase I | protein_coding | 288 | 257 | 289 | 258 | 0.892 |
| 7151 | NR_002719 | **TOP1P1** | DNA topoisomerase I pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.045 |
| 7152 | NR_001283 | **TOP1P2** | DNA topoisomerase I pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7153 | NM_001067,XM_00 | **TOP2A** | DNA topoisomerase II alp | protein_coding | 413 | 329 | 414 | 330 | 0.798 |
| 7155 | NM_001068,NM_00 | **TOP2B** | DNA topoisomerase II be | protein_coding | 73 | 57 | 74 | 58 | 0.785 |
| 7156 | NM_001320759,NM | **TOP3A** | DNA topoisomerase III al | protein_coding | 19 | 18 | 20 | 19 | 0.923 |
| 7157 | NM_000546,NM_00 | **TP53** | tumor protein p53 | protein_coding | 7 | 8 | 8 | 9 | 1.093 |
| 7158 | NM_001141979,NM | **TP53BP1** | tumor protein p53 bindin | protein_coding | 37 | 32 | 38 | 33 | 0.891 |
| 7159 | NM_001031685,NM | **TP53BP2** | tumor protein p53 bindin | protein_coding | 25 | 22 | 26 | 23 | 0.880 |
| 7161 | NM_001126240,NM | **TP73** | tumor protein p73 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7162 | NM_001166392,NM | **TPBG** | trophoblast glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7163 | NM_001025252,NM | **TPD52** | tumor protein D52 | protein_coding | 48 | 47 | 49 | 48 | 0.971 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7164 | NM_001003395,NM | **TPD52L1** | TPD52 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7165 | NM_001243891,NM | **TPD52L2** | TPD52 like 2 | protein_coding | 122 | 125 | 123 | 126 | 1.026 |
| 7166 | NM_004179 | **TPH1** | tryptophan hydroxylase 1 | protein_coding | 2 | 2 | 3 | 3 | 1.006 |
| 7167 | NM_000365,NM_00 | **TPI1** | triosephosphate isomera | protein_coding | 933 | 946 | 934 | 947 | 1.014 |
| 7168 | NM_000366,NM_00 | **TPM1** | tropomyosin 1 | protein_coding | 5 | 4 | 6 | 5 | 0.769 |
| 7169 | NM_001301226,NM | **TPM2** | tropomyosin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7170 | NM_001043351,NM | **TPM3** | tropomyosin 3 | protein_coding | 527 | 534 | 528 | 535 | 1.013 |
| 7171 | NM_001145160,NM | **TPM4** | tropomyosin 4 | protein_coding | 689 | 623 | 690 | 624 | 0.904 |
| 7172 | NM_000367,NM_00 | **TPMT** | thiopurine S-methyltrans | protein_coding | 28 | 25 | 29 | 26 | 0.899 |
| 7173 | NM_000547,NM_00 | **TPO** | thyroid peroxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7174 | NM_001330588,NM | **TPP2** | tripeptidyl peptidase 2 | protein_coding | 68 | 57 | 69 | 58 | 0.850 |
| 7175 | NM_003292 | **TPR** | translocated promoter re | protein_coding | 73 | 66 | 74 | 67 | 0.901 |
| 7177 | NM_003294 | **TPSAB1** | tryptase alpha/beta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7178 | NM_001286272,NM | **TPT1** | tumor protein, translation | protein_coding | 770 | 735 | 771 | 736 | 0.955 |
| 7179 | NM_001290224,NM | **TPTE** | transmembrane phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7180 | NM_001142407,NM | **CRISP2** | cysteine rich secretory pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7181 | NM_001032287,NM | **NR2C1** | nuclear receptor subfam | protein_coding | 10 | 11 | 11 | 12 | 1.033 |
| 7182 | NM_001291694,NM | **NR2C2** | nuclear receptor subfam | protein_coding | 12 | 10 | 13 | 11 | 0.857 |
| 7184 | NM_003299 | **HSP90B1** | heat shock protein 90 be | protein_coding | 674 | 679 | 675 | 680 | 1.007 |
| 7185 | NM_001190945,NM | **TRAF1** | TNF receptor associated | protein_coding | 21 | 21 | 22 | 22 | 1.029 |
| 7186 | NM_021138,XM_01 | **TRAF2** | TNF receptor associated | protein_coding | 47 | 43 | 48 | 44 | 0.920 |
| 7187 | NM_001199427,NM | **TRAF3** | TNF receptor associated | protein_coding | 23 | 22 | 24 | 23 | 0.945 |
| 7188 | NM_001033910,NM | **TRAF5** | TNF receptor associated | protein_coding | 32 | 27 | 33 | 28 | 0.840 |
| 7189 | NM_004620,NM_14 | **TRAF6** | TNF receptor associated | protein_coding | 5 | 5 | 6 | 6 | 0.934 |
| 7190 | NR_073383 | **HSP90B2P** | heat shock protein 90 be | transcribed_pseu | 1 | 1 | 2 | 2 | 0.917 |
| 7193 | rna-TRE-TTC3-1 | **TRE-TTC3-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7195 | rna-TRG-CCC1-1 | **TRG-CCC1-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7196 | rna-TRG-GCC2-6 | **TRG-GCC2-6** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7197 | rna-TRG-TCC1-1 | **TRG-TCC1-1** | tRNA-Gly | tRNA | 1 | 1 | 2 | 2 | 1.104 |
| 7198 | rna-TRG-GCC3-1 | **TRG-GCC3-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7200 | NM_007117 | **TRH** | thyrotropin releasing hor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7201 | NM_003301 | **TRHR** | thyrotropin releasing hor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7202 | rna-TRI-AAT9-1 | **TRI-AAT9-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7203 | NM_001008800,NM | **CCT3** | chaperonin containing T( | protein_coding | 883 | 873 | 884 | 874 | 0.988 |
| 7204 | NM_007118,NR_13 | **TRIO** | trio Rho guanine nucleot | protein_coding | 3 | 2 | 4 | 3 | 0.793 |
| 7205 | NM_003302 | **TRIP6** | thyroid hormone recepto | protein_coding | 1 | 1 | 2 | 2 | 1.035 |
| 7206 | rna-TRK-TTT3-5 | **TRK-TTT3-5** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.442 |
| 7207 | rna-TRL-AAG2-3 | **TRL-AAG2-3** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7208 | rna-TRL-TAG1-1 | **TRL-TAG1-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7210 | rna-TRX-CAT1-2 | **TRX-CAT1-2** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7212 | rna-TRX-CAT2-1 | **TRX-CAT2-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7214 | rna-TRN-GTT2-7 | **TRN-GTT2-7** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.007 |
| 7216 | NM_001039705,NM | **TRO** | trophinin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7217 | rna-TRP-AGG2-5 | **TRP-AGG2-5** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7218 | rna-TRP-AGG2-6 | **TRP-AGG2-6** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7219 | rna-TRP-TGG3-1 | **TRP-TGG3-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.117 |
| 7220 | NM_001251845,NM | **TRPC1** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7221 | NR_002720 | **TRPC2** | transient receptor potent | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7222 | NM_001130698,NM | **TRPC3** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7223 | NM_001135955,NM | **TRPC4** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7224 | NM_012471,XM_01 | **TRPC5** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7225 | NM_004621,XM_01 | **TRPC6** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7226 | NM_001320350,NM | **TRPM2** | transient receptor potent | protein_coding | 9 | 8 | 10 | 9 | 0.903 |
| 7227 | NM_001282902,NM | **TRPS1** | transcriptional repressor | protein_coding | 2 | 2 | 3 | 3 | 0.908 |
| 7228 | rna-TRQ-CTG1-5 | **TRQ-CTG1-5** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.434 |
| 7229 | rna-TRQ-TTG1-1 | **TRQ-TTG1-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7230 | rna-TRR-TCT2-1 | **TRR-TCT2-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7231 | rna-TRR-ACG1-2 | **TRR-ACG1-2** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 0.751 |
| 7232 | rna-TRR-TCG4-1 | **TRR-TCG4-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7233 | rna-TRR-CCG2-1 | **TRR-CCG2-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7236 | rna-TRT-TGT6-1 | **TRT-TGT6-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7237 | rna-TRT-TGT3-1 | **TRT-TGT3-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7239 | rna-TRV-AAC1-4 | **TRV-AAC1-4** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7240 | rna-TRV-CAC1-2 | **TRV-CAC1-2** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7241 | rna-TRV-AAC1-3 | **TRV-AAC1-3** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7247 | NM_001261401,NM | **TSN** | translin | protein_coding | 123 | 116 | 124 | 117 | 0.940 |
| 7248 | NM_000368,NM_00 | **TSC1** | TSC complex subunit 1 | protein_coding | 5 | 5 | 6 | 6 | 0.905 |
| 7249 | NM_000548,NM_00 | **TSC2** | TSC complex subunit 2 | protein_coding | 27 | 27 | 28 | 28 | 0.977 |
| 7251 | NM_006292,XM_00 | **TSG101** | tumor susceptibility 101 | protein_coding | 90 | 83 | 91 | 84 | 0.925 |
| 7252 | NM_000549,NM_00 | **TSHB** | thyroid stimulating hormo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7253 | NM_000369,NM_00 | **TSHR** | thyroid stimulating hormo | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 7257 | NM_005999 | **TSNAX** | translin associated factor | protein_coding | 58 | 53 | 59 | 54 | 0.916 |
| 7258 | NM_001197242,NM | **TSPY1** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7259 | NM_003309 | **TSPYL1** | TSPY like 1 | protein_coding | 25 | 26 | 26 | 27 | 1.023 |
| 7260 | NM_001330530,NM | **EIPR1** | EARP complex and GAR | protein_coding | 29 | 37 | 30 | 38 | 1.263 |
| 7262 | NM_003311 | **PHLDA2** | pleckstrin homology like | protein_coding | 0 | 0 | 1 | 1 | 0.827 |
| 7263 | NM_001270483,NM | **TST** | thiosulfate sulfurtransfer | protein_coding | 16 | 19 | 17 | 20 | 1.168 |
| 7264 | NM_001317783,NM | **GFUS** | GDP-L-fucose synthase | protein_coding | 39 | 45 | 40 | 46 | 1.151 |
| 7265 | NM_001282500,NM | **TTC1** | tetratricopeptide repeat d | protein_coding | 155 | 152 | 156 | 153 | 0.978 |
| 7266 | NM_001144766,NM | **DNAJC7** | DnaJ heat shock protein | protein_coding | 167 | 162 | 168 | 163 | 0.969 |
| 7267 | NM_001001894,NM | **TTC3** | tetratricopeptide repeat d | protein_coding | 27 | 20 | 28 | 21 | 0.772 |
| 7268 | NM_001291333,NM | **TTC4** | tetratricopeptide repeat d | protein_coding | 91 | 91 | 92 | 92 | 1.002 |
| 7270 | NM_001205296,NM | **TTF1** | transcription termination | protein_coding | 23 | 24 | 24 | 25 | 1.020 |
| 7272 | NM_001166691,NM | **TTK** | TTK protein kinase | protein_coding | 58 | 53 | 59 | 54 | 0.923 |
| 7273 | NM_001256850,NM | **TTN** | titin | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 7274 | NM_000370,XM_00 | **TTPA** | alpha tocopherol transfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7275 | NM_003320,NM_17 | **TUB** | TUB bipartite transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7276 | NM_000371 | **TTR** | transthyretin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7277 | NM_001278552,NM | **TUBA4A** | tubulin alpha 4a | protein_coding | 270 | 271 | 271 | 272 | 1.002 |
| 7278 | NM_006001 | **TUBA3C** | tubulin alpha 3c | protein_coding | 19 | 15 | 20 | 16 | 0.816 |
| 7280 | NM_001069,NM_00 | **TUBB2A** | tubulin beta 2A class IIa | protein_coding | 1 | 1 | 2 | 2 | 1.169 |
| 7283 | NM_001070,XM_02 | **TUBG1** | tubulin gamma 1 | protein_coding | 175 | 180 | 176 | 181 | 1.029 |
| 7284 | NM_001365360,NM | **TUFM** | Tu translation elongation | protein_coding | 455 | 472 | 456 | 473 | 1.037 |
| 7286 | NM_001126337,NM | **TUFT1** | tuftelin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7287 | NM_001289395,NM | **TULP1** | TUB like protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7288 | NM_003323,XM_00 | **TULP2** | TUB like protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7289 | NM_001160408,NM | **TULP3** | TUB like protein 3 | protein_coding | 10 | 12 | 11 | 13 | 1.180 |
| 7290 | NM_003325 | **HIRA** | histone cell cycle regulat | protein_coding | 59 | 62 | 60 | 63 | 1.050 |
| 7291 | NM_000474,NR_14 | **TWIST1** | twist family bHLH transcr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7292 | NM_001297562,NM | **TNFSF4** | TNF superfamily membe | protein_coding | 1 | 1 | 2 | 2 | 0.961 |
| 7293 | NM_003327,XM_01 | **TNFRSF4** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 7294 | NM_003328,XM_01 | **TXK** | TXK tyrosine kinase | protein_coding | 57 | 46 | 58 | 47 | 0.807 |
| 7295 | NM_001244938,NM | **TXN** | thioredoxin | protein_coding | 613 | 651 | 614 | 652 | 1.061 |
| 7296 | NM_001093771,NM | **TXNRD1** | thioredoxin reductase 1 | protein_coding | 166 | 149 | 167 | 150 | 0.898 |
| 7297 | NM_003331,XM_01 | **TYK2** | tyrosine kinase 2 | protein_coding | 60 | 59 | 61 | 60 | 0.985 |
| 7298 | NM_001071,NM_00 | **TYMS** | thymidylate synthetase | protein_coding | 346 | 330 | 347 | 331 | 0.952 |
| 7299 | NM_000372,XM_01 | **TYR** | tyrosinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7300 | gene-TYRL | **TYRL** | tyrosinase like (pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7301 | NM_001330264,NM | **TYRO3** | TYRO3 protein tyrosine k | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7302 | NR_028510 | **TYRO3P** | TYRO3P protein tyrosine | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7305 | NM_001173514,NM | **TYROBP** | transmembrane immune | protein_coding | 17 | 19 | 18 | 20 | 1.109 |
| 7306 | NM_000550,XR_00 | **TYRP1** | tyrosinase related protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7307 | NM_001025203,NM | **U2AF1** | U2 small nuclear RNA au | protein_coding | 288 | 310 | 289 | 311 | 1.074 |
| 7310 | gene-ZRSR2P1 | **ZRSR2P1** | ZRSR2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.960 |
| 7311 | NM_001033930,NM | **UBA52** | ubiquitin A-52 residue rib | protein_coding | 422 | 444 | 423 | 445 | 1.053 |
| 7312 | gene-UBA52P1 | **UBA52P1** | ubiquitin A-52 residue rib | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7313 | gene-UBA52P2 | **UBA52P2** | ubiquitin A-52 residue rib | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7314 | NM_001281716,NM | **UBB** | ubiquitin B | protein_coding | 899 | 965 | 900 | 966 | 1.074 |
| 7315 | gene-UBBP1 | **UBBP1** | ubiquitin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 7316 | NM_021009 | **UBC** | ubiquitin C | protein_coding | 1,132 | 1,238 | 1,133 | 1,239 | 1.094 |
| 7317 | NM_003334,NM_15 | **UBA1** | ubiquitin like modifier act | protein_coding | 263 | 267 | 264 | 268 | 1.015 |
| 7318 | NM_003335,XM_00 | **UBA7** | ubiquitin like modifier act | protein_coding | 1 | 2 | 2 | 3 | 1.078 |
| 7319 | NM_001282161,NM | **UBE2A** | ubiquitin conjugating en | protein_coding | 149 | 131 | 150 | 132 | 0.883 |
| 7320 | NM_003337 | **UBE2B** | ubiquitin conjugating en | protein_coding | 50 | 50 | 51 | 51 | 1.011 |
| 7321 | NM_001204880,NM | **UBE2D1** | ubiquitin conjugating en | protein_coding | 23 | 22 | 24 | 23 | 0.969 |
| 7322 | NM_003339,NM_18 | **UBE2D2** | ubiquitin conjugating en | protein_coding | 152 | 146 | 153 | 147 | 0.956 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7323 | NM_001300795,NM | **UBE2D3** | ubiquitin conjugating en | protein_coding | 203 | 188 | 204 | 189 | 0.925 |
| 7324 | NM_001202476,NM | **UBE2E1** | ubiquitin conjugating en | protein_coding | 50 | 44 | 51 | 45 | 0.894 |
| 7325 | NM_001370225,NM | **UBE2E2** | ubiquitin conjugating en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7326 | NM_003342 | **UBE2G1** | ubiquitin conjugating en | protein_coding | 47 | 45 | 48 | 46 | 0.959 |
| 7327 | NM_001202489,NM | **UBE2G2** | ubiquitin conjugating en | protein_coding | 129 | 119 | 130 | 120 | 0.923 |
| 7328 | NM_001202498,NM | **UBE2H** | ubiquitin conjugating en | protein_coding | 24 | 21 | 25 | 22 | 0.851 |
| 7329 | NM_003345,NM_19 | **UBE2I** | ubiquitin conjugating en | protein_coding | 123 | 129 | 124 | 130 | 1.049 |
| 7332 | NM_001256355,NM | **UBE2L3** | ubiquitin conjugating en | protein_coding | 143 | 143 | 144 | 144 | 0.998 |
| 7333 | gene-UBE2L4 | **UBE2L4** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.458 |
| 7334 | NM_003348,XR_002 | **UBE2N** | ubiquitin conjugating en | protein_coding | 115 | 107 | 116 | 108 | 0.925 |
| 7335 | NM_001032288,NM | **UBE2V1** | ubiquitin conjugating en | protein_coding | 324 | 298 | 325 | 299 | 0.919 |
| 7336 | NM_003350,XM_01 | **UBE2V2** | ubiquitin conjugating en | protein_coding | 75 | 66 | 76 | 67 | 0.882 |
| 7337 | NM_000462,NM_00 | **UBE3A** | ubiquitin protein ligase E | protein_coding | 61 | 54 | 62 | 55 | 0.882 |
| 7339 | gene-UBE3AP2 | **UBE3AP2** | ubiquitin protein ligase E | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7341 | NM_001005781,NM | **SUMO1** | small ubiquitin like modif | protein_coding | 341 | 322 | 342 | 323 | 0.945 |
| 7342 | NM_001128160,NM | **UBP1** | upstream binding protein | protein_coding | 71 | 71 | 72 | 72 | 0.995 |
| 7343 | NM_001076683,NM | **UBTF** | upstream binding transcr | protein_coding | 114 | 120 | 115 | 121 | 1.055 |
| 7345 | NM_004181 | **UCHL1** | ubiquitin C-terminal hydr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7347 | NM_001270952,NM | **UCHL3** | ubiquitin C-terminal hydr | protein_coding | 118 | 111 | 119 | 112 | 0.948 |
| 7348 | NM_006952 | **UPK1B** | uroplakin 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7349 | NM_003353 | **UCN** | urocortin | protein_coding | 1 | 1 | 2 | 2 | 1.085 |
| 7350 | NM_021833,XM_005 | **UCP1** | uncoupling protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7351 | NM_001381943,NM | **UCP2** | uncoupling protein 2 | protein_coding | 77 | 90 | 78 | 91 | 1.160 |
| 7352 | NM_003356,NM_02 | **UCP3** | uncoupling protein 3 | protein_coding | 1 | 1 | 2 | 2 | 0.933 |
| 7353 | NM_001035247,NM | **UFD1** | ubiquitin recognition fact | protein_coding | 75 | 80 | 76 | 81 | 1.068 |
| 7355 | NM_001032289,NM | **SLC35A2** | solute carrier family 35 m | protein_coding | 33 | 38 | 34 | 39 | 1.151 |
| 7356 | NM_003357 | **SCGB1A1** | secretoglobin family 1A r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7357 | NM_003358,XM_005 | **UGCG** | UDP-glucose ceramide g | protein_coding | 32 | 26 | 33 | 27 | 0.828 |
| 7358 | NM_001184700,NM | **UGDH** | UDP-glucose 6-dehydrog | protein_coding | 34 | 32 | 35 | 33 | 0.950 |
| 7360 | NM_001001521,NM | **UGP2** | UDP-glucose pyrophosp | protein_coding | 135 | 130 | 136 | 131 | 0.967 |
| 7363 | NM_001297615,NM | **UGT2B4** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7364 | NM_001074,NM_00 | **UGT2B7** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7365 | NM_001075,NM_00 | **UGT2B10** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7366 | NM_001076 | **UGT2B15** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7367 | NM_001077,XM_024 | **UGT2B17** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7368 | NM_001128174,NM | **UGT8** | UDP glycosyltransferase | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 7369 | NM_001008389,NM | **UMOD** | uromodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7371 | NM_001363568,NM | **UCK2** | uridine-cytidine kinase 2 | protein_coding | 66 | 63 | 67 | 64 | 0.950 |
| 7372 | NM_000373,NR_03 | **UMPS** | uridine monophosphate s | protein_coding | 43 | 43 | 44 | 44 | 1.003 |
| 7373 | NM_021110,XM_005 | **COL14A1** | collagen type XIV alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7374 | NM_003362,NM_08 | **UNG** | uracil DNA glycosylase | protein_coding | 57 | 61 | 58 | 62 | 1.081 |
| 7375 | NM_001251877,NM | **USP4** | ubiquitin specific peptida | protein_coding | 21 | 20 | 22 | 21 | 0.935 |
| 7376 | NM_001256647,NM | **NR1H2** | nuclear receptor subfam | protein_coding | 25 | 28 | 26 | 29 | 1.101 |
| 7378 | NM_001287426,NM | **UPP1** | uridine phosphorylase 1 | protein_coding | 85 | 91 | 86 | 92 | 1.070 |
| 7379 | NM_006760 | **UPK2** | uroplakin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7380 | NM_001167574,NM | **UPK3A** | uroplakin 3A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7381 | NM_001199975,NM | **UQCRB** | ubiquinol-cytochrome c r | protein_coding | 83 | 83 | 84 | 84 | 1.010 |
| 7384 | NM_003365,XR_002 | **UQCRC1** | ubiquinol-cytochrome c r | protein_coding | 261 | 269 | 262 | 270 | 1.031 |
| 7385 | NM_003366 | **UQCRC2** | ubiquinol-cytochrome c r | protein_coding | 199 | 192 | 200 | 193 | 0.966 |
| 7386 | NM_006003 | **UQCRFS1** | ubiquinol-cytochrome c r | protein_coding | 108 | 107 | 109 | 108 | 0.992 |
| 7388 | NM_001297565,NM | **UQCRH** | ubiquinol-cytochrome c r | protein_coding | 936 | 1,014 | 937 | 1,015 | 1.084 |
| 7389 | NM_000374,NR_03 | **UROD** | uroporphyrinogen decart | protein_coding | 59 | 67 | 60 | 68 | 1.139 |
| 7390 | NM_000375,NM_00 | **UROS** | uroporphyrinogen III synt | protein_coding | 34 | 33 | 35 | 34 | 0.988 |
| 7391 | NM_001276373,NM | **USF1** | upstream transcription fa | protein_coding | 80 | 83 | 81 | 84 | 1.036 |
| 7392 | NM_001321150,NM | **USF2** | upstream transcription fa | protein_coding | 70 | 74 | 71 | 75 | 1.050 |
| 7398 | NM_001017415,NM | **USP1** | ubiquitin specific peptida | protein_coding | 171 | 152 | 172 | 153 | 0.889 |
| 7399 | NM_007123,NM_20 | **USH2A** | usherin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7401 | NM_001195794,NM | **CLRN1** | clarin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7402 | NM_001375323,NM | **UTRN** | utrophin | protein_coding | 21 | 17 | 22 | 18 | 0.852 |
| 7403 | NM_001291415,NM | **KDM6A** | lysine demethylase 6A | protein_coding | 15 | 15 | 16 | 16 | 1.020 |
| 7404 | NM_001258249,NM | **UTY** | ubiquitously transcribed | protein_coding | 6 | 5 | 7 | 6 | 0.868 |
| 7405 | NM_003369,XM_01 | **UVRAG** | UV radiation resistance a | protein_coding | 12 | 10 | 13 | 11 | 0.868 |
| 7407 | NM_006295,XM_005 | **VARS1** | valyl-tRNA synthetase 1 | protein_coding | 161 | 150 | 162 | 151 | 0.931 |
| 7408 | NM_003370,XM_005 | **VASP** | vasodilator stimulated ph | protein_coding | 190 | 193 | 191 | 194 | 1.014 |
| 7409 | NM_001258206,NM | **VAV1** | vav guanine nucleotide e | protein_coding | 123 | 123 | 124 | 124 | 1.004 |
| 7410 | NM_001134398,NM | **VAV2** | vav guanine nucleotide e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7411 | NM_001303543,NM | **VBP1** | VHL binding protein 1 | protein_coding | 150 | 132 | 151 | 133 | 0.878 |
| 7412 | NM_001078,NM_00 | **VCAM1** | vascular cell adhesion m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7414 | NM_003373,NM_01 | **VCL** | vinculin | protein_coding | 20 | 17 | 21 | 18 | 0.827 |
| 7415 | NM_001354927,NM | **VCP** | valosin containing protei | protein_coding | 172 | 171 | 173 | 172 | 0.994 |
| 7416 | NM_003374,NR_03 | **VDAC1** | voltage dependent anion | protein_coding | 629 | 596 | 630 | 597 | 0.949 |
| 7417 | NM_001184783,NM | **VDAC2** | voltage dependent anion | protein_coding | 244 | 247 | 245 | 248 | 1.011 |
| 7418 | gene-VDAC1P4 | **VDAC1P4** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 7419 | NM_001135694,NM | **VDAC3** | voltage dependent anion | protein_coding | 444 | 444 | 445 | 445 | 1.000 |
| 7421 | NM_000376,NM_00 | **VDR** | vitamin D receptor | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 7422 | NM_001025366,NM | **VEGFA** | vascular endothelial grov | protein_coding | 0 | 0 | 1 | 1 | 0.852 |
| 7423 | NM_001243733,NM | **VEGFB** | vascular endothelial grov | protein_coding | 3 | 3 | 4 | 4 | 0.985 |
| 7424 | NM_005429 | **VEGFC** | vascular endothelial grov | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7425 | NM_003378,XM_005 | **VGF** | VGF nerve growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.262 |
| 7428 | NM_000551,NM_00 | **VHL** | von Hippel-Lindau tumor | protein_coding | 62 | 53 | 63 | 54 | 0.855 |
| 7429 | NM_007127 | **VIL1** | villin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 7430 | NM_001111077,NM | **EZR** | ezrin | protein_coding | 167 | 171 | 168 | 172 | 1.020 |
| 7431 | NM_003380,XM_006 | **VIM** | vimentin | protein_coding | 716 | 682 | 717 | 683 | 0.952 |
| 7432 | NM_003381,NM_19 | **VIP** | vasoactive intestinal pep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7433 | NM_001251882,NM | **VIPR1** | vasoactive intestinal pep | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 7434 | NM_001304522,NM | **VIPR2** | vasoactive intestinal pep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7436 | NM_001018056,NM | **VLDLR** | very low density lipoprote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7439 | NM_001139443,NM | **BEST1** | bestrophin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 7441 | NM_001303509,NM | **VPREB1** | V-set pre-B cell surrogat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7442 | NM_018727,NM_08 | **TRPV1** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.070 |
| 7443 | NM_003384,XM_00 | **VRK1** | VRK serine/threonine kin | protein_coding | 88 | 79 | 89 | 80 | 0.903 |
| 7444 | NM_001130480,NM | **VRK2** | VRK serine/threonine kin | protein_coding | 16 | 14 | 17 | 15 | 0.926 |
| 7447 | NM_001366803,NM | **VSNL1** | visinin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7448 | NM_000638 | **VTN** | vitronectin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7450 | NM_000552 | **VWF** | von Willebrand factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7451 | gene-VWFP1 | **VWFP1** | von Willebrand factor ps | pseudogene | 1 | 0 | 2 | 1 | 0.937 |
| 7453 | NM_004184,NM_17 | **WARS1** | tryptophanyl-tRNA synth | protein_coding | 211 | 214 | 212 | 215 | 1.011 |
| 7454 | NM_000377,XM_01 | **WAS** | WASP actin nucleation p | protein_coding | 173 | 174 | 174 | 175 | 1.006 |
| 7455 | NM_003386,NM_17 | **ZAN** | zonadhesin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7456 | NM_001077269,NM | **WIPF1** | WAS/WASL interacting p | protein_coding | 607 | 510 | 608 | 511 | 0.841 |
| 7458 | NM_022170,NM_03 | **EIF4H** | eukaryotic translation init | protein_coding | 633 | 618 | 634 | 619 | 0.976 |
| 7461 | NM_003388,NM_03 | **CLIP2** | CAP-Gly domain contain | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 7462 | NM_014146,NM_03 | **LAT2** | linker for activation of T c | protein_coding | 29 | 22 | 30 | 23 | 0.763 |
| 7464 | NM_003389,NM_05 | **CORO2A** | coronin 2A | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 7465 | NM_001143976,NM | **WEE1** | WEE1 G2 checkpoint kir | protein_coding | 36 | 30 | 37 | 31 | 0.857 |
| 7466 | NM_001145853,NM | **WFS1** | wolframin ER transmemt | protein_coding | 13 | 14 | 14 | 15 | 1.012 |
| 7468 | NM_001042424,NM | **NSD2** | nuclear receptor binding | protein_coding | 129 | 109 | 130 | 110 | 0.852 |
| 7469 | NM_005663,XM_01 | **NELFA** | negative elongation factc | protein_coding | 63 | 59 | 64 | 60 | 0.929 |
| 7471 | NM_005430 | **WNT1** | Wnt family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7472 | NM_003391,NR_024 | **WNT2** | Wnt family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7473 | NM_030753 | **WNT3** | Wnt family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7474 | NM_001256105,NM | **WNT5A** | Wnt family member 5A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7475 | NM_006522 | **WNT6** | Wnt family member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 7476 | NM_004625,XM_01 | **WNT7A** | Wnt family member 7A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7477 | NM_058238,XM_01 | **WNT7B** | Wnt family member 7B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7478 | NM_001300938,NM | **WNT8A** | Wnt family member 8A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7479 | NM_003393 | **WNT8B** | Wnt family member 8B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7480 | NM_003394,XM_01 | **WNT10B** | Wnt family member 10B | protein_coding | 17 | 18 | 18 | 19 | 1.084 |
| 7481 | NM_004626,XM_005 | **WNT11** | Wnt family member 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7482 | NM_001291880,NM | **WNT2B** | Wnt family member 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7483 | NM_003395,XM_01 | **WNT9A** | Wnt family member 9A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7484 | NM_001320458,NM | **WNT9B** | Wnt family member 9B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7485 | NM_001146218,NM | **GET1** | guided entry of tail-anch | protein_coding | 39 | 37 | 40 | 38 | 0.932 |
| 7486 | NM_000553,XM_01 | **WRN** | WRN RecQ like helicase | protein_coding | 23 | 20 | 24 | 21 | 0.889 |
| 7490 | NM_000378,NM_00 | **WT1** | WT1 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7494 | NM_001079539,NM | **XBP1** | X-box binding protein 1 | protein_coding | 95 | 86 | 96 | 87 | 0.903 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7495 | gene-XBP1P1 | **XBP1P1** | X-box binding protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 7498 | NM_000379,XM_01 | **XDH** | xanthine dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7499 | NM_001141919,NM | **XG** | Xg glycoprotein (Xg bloo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7503 | NR_001564 | **XIST** | X inactive specific transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7504 | NM_021083,XM_01 | **XK** | X-linked Kx blood group | protein_coding | 15 | 14 | 16 | 15 | 0.948 |
| 7507 | NM_000380,NM_00 | **XPA** | XPA, DNA damage recog | protein_coding | 20 | 19 | 21 | 20 | 0.949 |
| 7508 | NM_001354726,NM | **XPC** | XPC complex subunit, D | protein_coding | 21 | 22 | 22 | 23 | 1.071 |
| 7511 | NM_001167604,NM | **XPNPEP1** | X-prolyl aminopeptidase | protein_coding | 47 | 49 | 48 | 50 | 1.027 |
| 7512 | NM_003399 | **XPNPEP2** | X-prolyl aminopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 7514 | NM_003400,XM_00 | **XPO1** | exportin 1 | protein_coding | 246 | 215 | 247 | 216 | 0.874 |
| 7515 | NM_006297 | **XRCC1** | X-ray repair cross compl | protein_coding | 61 | 60 | 62 | 61 | 0.974 |
| 7516 | NM_005431 | **XRCC2** | X-ray repair cross compl | protein_coding | 29 | 22 | 30 | 23 | 0.767 |
| 7517 | NM_001100118,NM | **XRCC3** | X-ray repair cross compl | protein_coding | 51 | 51 | 52 | 52 | 0.989 |
| 7518 | NM_001318012,NM | **XRCC4** | X-ray repair cross compl | protein_coding | 22 | 20 | 23 | 21 | 0.922 |
| 7520 | NM_021141 | **XRCC5** | X-ray repair cross compl | protein_coding | 628 | 574 | 629 | 575 | 0.915 |
| 7525 | NM_005433,XM_00 | **YES1** | YES proto-oncogene 1, S | protein_coding | 4 | 3 | 5 | 4 | 0.837 |
| 7526 | gene-YES1P1 | **YES1P1** | YES1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7528 | NM_003403 | **YY1** | YY1 transcription factor | protein_coding | 60 | 58 | 61 | 59 | 0.977 |
| 7529 | NM_003404,NM_13 | **YWHAB** | tyrosine 3-monooxygena | protein_coding | 442 | 415 | 443 | 416 | 0.938 |
| 7531 | NM_006761,NR_02 | **YWHAE** | tyrosine 3-monooxygena | protein_coding | 395 | 403 | 396 | 404 | 1.021 |
| 7532 | NM_012479 | **YWHAG** | tyrosine 3-monooxygena | protein_coding | 277 | 254 | 278 | 255 | 0.920 |
| 7533 | NM_003405 | **YWHAH** | tyrosine 3-monooxygena | protein_coding | 347 | 357 | 348 | 358 | 1.027 |
| 7534 | NM_001135699,NM | **YWHAZ** | tyrosine 3-monooxygena | protein_coding | 876 | 823 | 877 | 824 | 0.939 |
| 7535 | NM_001079,NM_00 | **ZAP70** | zeta chain of T cell recep | protein_coding | 149 | 157 | 150 | 158 | 1.055 |
| 7536 | NM_001178030,NM | **SF1** | splicing factor 1 | protein_coding | 268 | 255 | 269 | 256 | 0.949 |
| 7538 | NM_003407 | **ZFP36** | ZFP36 ring finger protein | protein_coding | 67 | 77 | 68 | 78 | 1.152 |
| 7539 | NM_001282515,NM | **ZFP37** | ZFP37 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7541 | NM_001143823,NM | **ZBTB14** | zinc finger and BTB dom | protein_coding | 11 | 11 | 12 | 12 | 0.981 |
| 7542 | NM_006782 | **ZFPL1** | zinc finger protein like 1 | protein_coding | 24 | 30 | 25 | 31 | 1.228 |
| 7543 | NM_001178084,NM | **ZFX** | zinc finger protein X-link | protein_coding | 17 | 15 | 18 | 16 | 0.889 |
| 7544 | NM_001145275,NM | **ZFY** | zinc finger protein Y-link | protein_coding | 14 | 11 | 15 | 12 | 0.825 |
| 7545 | NM_003412 | **ZIC1** | Zic family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7546 | NM_007129 | **ZIC2** | Zic family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7547 | NM_001330661,NM | **ZIC3** | Zic family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7549 | NM_001017396,NM | **ZNF2** | zinc finger protein 2 | protein_coding | 5 | 4 | 6 | 5 | 0.850 |
| 7551 | NM_001278284,NM | **ZNF3** | zinc finger protein 3 | protein_coding | 21 | 21 | 22 | 22 | 1.008 |
| 7552 | NM_001330574,NM | **ZNF711** | zinc finger protein 711 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7553 | NM_001282795,NM | **ZNF7** | zinc finger protein 7 | protein_coding | 9 | 10 | 10 | 11 | 1.078 |
| 7554 | NM_021089 | **ZNF8** | zinc finger protein 8 | protein_coding | 1 | 1 | 2 | 2 | 0.979 |
| 7555 | NM_001127192,NM | **CNBP** | CCHC-type zinc finger nu | protein_coding | 457 | 438 | 458 | 439 | 0.959 |
| 7556 | NM_015394 | **ZNF10** | zinc finger protein 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7559 | NM_006956,NM_01 | **ZNF12** | zinc finger protein 12 | protein_coding | 12 | 10 | 13 | 11 | 0.872 |
| 7561 | NM_021030 | **ZNF14** | zinc finger protein 14 | protein_coding | 1 | 1 | 2 | 2 | 0.967 |
| 7562 | NM_001297560,NM | **ZNF708** | zinc finger protein 708 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7564 | NM_001029976,NM | **ZNF16** | zinc finger protein 16 | protein_coding | 2 | 4 | 3 | 5 | 1.301 |
| 7565 | NM_001330617,NM | **ZNF17** | zinc finger protein 17 | protein_coding | 10 | 11 | 11 | 12 | 1.099 |
| 7566 | NM_001303281,NM | **ZNF18** | zinc finger protein 18 | protein_coding | 4 | 4 | 5 | 5 | 0.931 |
| 7567 | NM_006961 | **ZNF19** | zinc finger protein 19 | protein_coding | 1 | 1 | 2 | 2 | 0.986 |
| 7568 | NM_001203250,NM | **ZNF20** | zinc finger protein 20 | protein_coding | 3 | 2 | 4 | 3 | 0.771 |
| 7569 | NM_001007088,NM | **ZNF182** | zinc finger protein 182 | protein_coding | 12 | 12 | 13 | 13 | 0.954 |
| 7570 | NM_006963 | **ZNF22** | zinc finger protein 22 | protein_coding | 139 | 123 | 140 | 124 | 0.885 |
| 7571 | NM_001304492,NM | **ZNF23** | zinc finger protein 23 | protein_coding | 12 | 13 | 13 | 14 | 1.054 |
| 7572 | NM_001308123,NM | **ZNF24** | zinc finger protein 24 | protein_coding | 42 | 36 | 43 | 37 | 0.849 |
| 7574 | NM_001256279,NM | **ZNF26** | zinc finger protein 26 | protein_coding | 0 | 0 | 1 | 1 | 1.151 |
| 7576 | NM_001369761,NM | **ZNF28** | zinc finger protein 28 | protein_coding | 7 | 6 | 8 | 7 | 0.889 |
| 7579 | NM_001377376,NM | **ZSCAN20** | zinc finger and SCAN do | protein_coding | 2 | 2 | 3 | 3 | 1.011 |
| 7580 | NM_001005368,NM | **ZNF32** | zinc finger protein 32 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7581 | NM_001278170,NM | **ZNF33A** | zinc finger protein 33A | protein_coding | 7 | 6 | 8 | 7 | 0.888 |
| 7582 | NM_001305033,NM | **ZNF33B** | zinc finger protein 33B | protein_coding | 12 | 11 | 13 | 12 | 0.962 |
| 7584 | NM_003420 | **ZNF35** | zinc finger protein 35 | protein_coding | 16 | 15 | 17 | 16 | 0.941 |
| 7586 | NM_001287054,NM | **ZKSCAN1** | zinc finger with KRAB an | protein_coding | 20 | 17 | 21 | 18 | 0.862 |
| 7587 | NM_001007094,NM | **ZNF37A** | zinc finger protein 37A | protein_coding | 8 | 7 | 9 | 8 | 0.858 |
| 7589 | NM_001362779,NM | **ZSCAN21** | zinc finger and SCAN do | protein_coding | 12 | 11 | 13 | 12 | 0.882 |
| 7592 | NM_001324139,NM | **ZNF41** | zinc finger protein 41 | protein_coding | 16 | 14 | 17 | 15 | 0.885 |
| 7593 | NM_001267033,NM | **MZF1** | myeloid zinc finger 1 | protein_coding | 5 | 4 | 6 | 5 | 0.941 |
| 7594 | NM_001256648,NM | **ZNF43** | zinc finger protein 43 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7596 | NM_003425,XM_01 | **ZNF45** | zinc finger protein 45 | protein_coding | 14 | 12 | 15 | 13 | 0.873 |
| 7597 | NM_001304507,NM | **ZBTB25** | zinc finger and BTB dom | protein_coding | 5 | 5 | 6 | 6 | 0.896 |
| 7608 | NM_001355194 | **ZNF56** | zinc finger protein 56 | protein_coding | 1 | 1 | 2 | 2 | 0.908 |
| 7617 | NM_001355197 | **ZNF66** | zinc finger protein 66 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7618 | gene-ZNF726P1 | **ZNF726P1** | zinc finger protein 726 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7620 | NM_001321163,NM | **ZNF69** | zinc finger protein 69 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7621 | NM_021916,XM_02 | **ZNF70** | zinc finger protein 70 | protein_coding | 3 | 2 | 4 | 3 | 0.655 |
| 7625 | NM_001256523,NM | **ZNF74** | zinc finger protein 74 | protein_coding | 10 | 10 | 11 | 11 | 1.070 |
| 7626 | NM_001185063,NM | **ZNF75D** | zinc finger protein 75D | protein_coding | 4 | 3 | 5 | 4 | 0.909 |
| 7627 | NM_001302109,NM | **ZNF75A** | zinc finger protein 75a | protein_coding | 1 | 1 | 2 | 2 | 0.917 |
| 7628 | gene-ZNF75BP | **ZNF75BP** | zinc finger protein 75B, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7629 | NM_001292032,NM | **ZNF76** | zinc finger protein 76 | protein_coding | 15 | 15 | 16 | 16 | 0.961 |
| 7633 | NM_001286696,NM | **ZNF79** | zinc finger protein 79 | protein_coding | 5 | 6 | 6 | 7 | 1.120 |
| 7634 | NM_007136 | **ZNF80** | zinc finger protein 80 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7637 | NM_001127372,NM | **ZNF84** | zinc finger protein 84 | protein_coding | 1 | 1 | 2 | 2 | 0.899 |
| 7638 | NM_001297588,NM | **ZNF221** | zinc finger protein 221 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7639 | NM_001256171,NM | **ZNF85** | zinc finger protein 85 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7643 | NM_007138,XR_00 | **ZNF90** | zinc finger protein 90 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7644 | NM_001300951,NM | **ZNF91** | zinc finger protein 91 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7652 | NM_001080409 | **ZNF99** | zinc finger protein 99 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7661 | gene-ZNF90P1 | **ZNF90P1** | zinc finger protein 90 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7673 | NM_001129996,NM | **ZNF222** | zinc finger protein 222 | protein_coding | 1 | 1 | 2 | 2 | 1.228 |
| 7675 | NM_001008727,NM | **ZNF121** | zinc finger protein 121 | protein_coding | 26 | 22 | 27 | 23 | 0.854 |
| 7678 | NM_001243740,NM | **ZNF124** | zinc finger protein 124 | protein_coding | 12 | 10 | 13 | 11 | 0.863 |
| 7681 | NM_005664 | **MKRN3** | makorin ring finger prote | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 7682 | gene-MKRN4P | **MKRN4P** | makorin ring finger prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7683 | gene-MKRN5P | **MKRN5P** | makorin ring finger prote | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 7686 | NR_026640 | **MKRN7P** | makorin ring finger prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7690 | NM_001297548,NM | **ZNF131** | zinc finger protein 131 | protein_coding | 44 | 41 | 45 | 42 | 0.942 |
| 7691 | NM_003433 | **ZNF132** | zinc finger protein 132 | protein_coding | 7 | 6 | 8 | 7 | 0.914 |
| 7692 | NM_001083330,NM | **ZNF133** | zinc finger protein 133 | protein_coding | 3 | 4 | 4 | 5 | 1.034 |
| 7693 | NM_003435 | **ZNF134** | zinc finger protein 134 | protein_coding | 9 | 9 | 10 | 10 | 1.044 |
| 7694 | NM_001164527,NM | **ZNF135** | zinc finger protein 135 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7695 | NM_001348013,NM | **ZNF136** | zinc finger protein 136 | protein_coding | 10 | 9 | 11 | 10 | 0.904 |
| 7696 | NR_023311 | **ZNF137P** | zinc finger protein 137, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7697 | NM_001160183,NM | **ZNF138** | zinc finger protein 138 | protein_coding | 21 | 19 | 22 | 20 | 0.903 |
| 7699 | NM_001300776,NM | **ZNF140** | zinc finger protein 140 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7700 | NM_001348277,NM | **ZNF141** | zinc finger protein 141 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7701 | NM_001105537,NM | **ZNF142** | zinc finger protein 142 | protein_coding | 32 | 31 | 33 | 32 | 0.966 |
| 7702 | NM_001282656,NM | **ZNF143** | zinc finger protein 143 | protein_coding | 19 | 17 | 20 | 18 | 0.885 |
| 7703 | NM_001369614,NM | **PCGF2** | polycomb group ring fing | protein_coding | 5 | 3 | 6 | 4 | 0.764 |
| 7704 | NM_001018011,NM | **ZBTB16** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7705 | NM_001099638,NM | **ZNF146** | zinc finger protein 146 | protein_coding | 121 | 105 | 122 | 106 | 0.863 |
| 7706 | NM_005082 | **TRIM25** | tripartite motif containing | protein_coding | 61 | 49 | 62 | 50 | 0.806 |
| 7707 | NM_001348424,NM | **ZNF148** | zinc finger protein 148 | protein_coding | 25 | 20 | 26 | 21 | 0.803 |
| 7709 | NM_001242884,NM | **ZBTB17** | zinc finger and BTB dom | protein_coding | 17 | 16 | 18 | 17 | 0.941 |
| 7710 | NM_001085384,NR | **ZNF154** | zinc finger protein 154 | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 7711 | NM_001260486,NM | **ZNF155** | zinc finger protein 155 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7712 | NM_003446 | **ZNF157** | zinc finger protein 157 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7716 | NM_001330393,NM | **VEZF1** | vascular endothelial zinc | protein_coding | 21 | 18 | 22 | 19 | 0.866 |
| 7718 | NM_001376491,NM | **ZNF165** | zinc finger protein 165 | protein_coding | 1 | 1 | 2 | 2 | 1.040 |
| 7726 | NM_001242783,NM | **TRIM26** | tripartite motif containing | protein_coding | 114 | 115 | 115 | 116 | 1.006 |
| 7727 | NM_001032292,NM | **ZNF174** | zinc finger protein 174 | protein_coding | 28 | 24 | 29 | 25 | 0.878 |
| 7728 | NM_007147,NR_13 | **ZNF175** | zinc finger protein 175 | protein_coding | 10 | 9 | 11 | 10 | 0.922 |
| 7730 | NM_001172651,NM | **ZNF177** | zinc finger protein 177 | protein_coding | 1 | 0 | 2 | 1 | 0.667 |
| 7732 | NM_007148,XM_00 | **RNF112** | ring finger protein 112 | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 7733 | NM_001278508,NM | **ZNF180** | zinc finger protein 180 | protein_coding | 7 | 5 | 8 | 6 | 0.836 |
| 7737 | NM_006978 | **RNF113A** | ring finger protein 113A | protein_coding | 32 | 29 | 33 | 30 | 0.926 |
| 7738 | NM_001318891,NM | **ZNF184** | zinc finger protein 184 | protein_coding | 11 | 10 | 12 | 11 | 0.887 |
| 7739 | NM_001178106,NM | **ZNF185** | zinc finger protein 185 w | protein_coding | 1 | 1 | 2 | 2 | 1.088 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7741 | NM_001023560,NM | **ZSCAN26** | zinc finger and SCAN do | protein_coding | 10 | 11 | 11 | 12 | 1.051 |
| 7743 | NM_001278231,NM | **ZNF189** | zinc finger protein 189 | protein_coding | 10 | 10 | 11 | 11 | 0.989 |
| 7745 | NM_001278119,NM | **ZKSCAN8** | zinc finger with KRAB an | protein_coding | 26 | 21 | 27 | 22 | 0.806 |
| 7746 | NM_001199479,NM | **ZSCAN9** | zinc finger and SCAN do | protein_coding | 18 | 18 | 19 | 19 | 0.994 |
| 7748 | NM_001130519,NM | **ZNF195** | zinc finger protein 195 | protein_coding | 22 | 21 | 23 | 22 | 0.942 |
| 7750 | NM_001190964,NM | **ZMYM2** | zinc finger MYM-type cor | protein_coding | 30 | 31 | 31 | 32 | 1.057 |
| 7752 | NM_001145446,NM | **ZNF200** | zinc finger protein 200 | protein_coding | 38 | 38 | 39 | 39 | 0.979 |
| 7753 | NM_001301779,NM | **ZNF202** | zinc finger protein 202 | protein_coding | 15 | 13 | 16 | 14 | 0.854 |
| 7754 | NR_002722,NR_02 | **ZNF204P** | zinc finger protein 204, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 7755 | NM_001042428,NM | **ZNF205** | zinc finger protein 205 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7756 | NM_001032293,NM | **ZNF207** | zinc finger protein 207 | protein_coding | 168 | 153 | 169 | 154 | 0.912 |
| 7757 | NM_001329971,NM | **ZNF208** | zinc finger protein 208 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7760 | NM_001134655,NM | **ZNF213** | zinc finger protein 213 | protein_coding | 19 | 21 | 20 | 22 | 1.142 |
| 7761 | NM_001354830,NM | **ZNF214** | zinc finger protein 214 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7762 | NM_001354853,NM | **ZNF215** | zinc finger protein 215 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7763 | NM_001102420,NM | **ZFAND5** | zinc finger AN1-type con | protein_coding | 23 | 25 | 24 | 26 | 1.066 |
| 7764 | NM_006526,XM_00 | **ZNF217** | zinc finger protein 217 | protein_coding | 22 | 18 | 23 | 19 | 0.822 |
| 7766 | NM_013361,XM_01 | **ZNF223** | zinc finger protein 223 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7767 | NM_001321645,NM | **ZNF224** | zinc finger protein 224 | protein_coding | 6 | 5 | 7 | 6 | 0.905 |
| 7768 | NM_001321685,NM | **ZNF225** | zinc finger protein 225 | protein_coding | 2 | 2 | 3 | 3 | 0.917 |
| 7769 | NM_001032372,NM | **ZNF226** | zinc finger protein 226 | protein_coding | 6 | 5 | 7 | 6 | 0.899 |
| 7770 | NM_001289166,NM | **ZNF227** | zinc finger protein 227 | protein_coding | 6 | 6 | 7 | 7 | 0.924 |
| 7771 | NM_001083335,NM | **ZNF112** | zinc finger protein 112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7772 | NM_001278510,NM | **ZNF229** | zinc finger protein 229 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7773 | NM_006300 | **ZNF230** | zinc finger protein 230 | protein_coding | 1 | 0 | 2 | 1 | 0.845 |
| 7775 | NM_001320952,NM | **ZNF232** | zinc finger protein 232 | protein_coding | 18 | 15 | 19 | 16 | 0.815 |
| 7776 | NM_001306089,NM | **ZNF236** | zinc finger protein 236 | protein_coding | 4 | 4 | 5 | 5 | 0.939 |
| 7779 | NM_021194 | **SLC30A1** | solute carrier family 30 r | protein_coding | 24 | 24 | 25 | 25 | 1.006 |
| 7780 | NM_001004434,NM | **SLC30A2** | solute carrier family 30 r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7781 | NM_001318949,NM | **SLC30A3** | solute carrier family 30 r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7782 | NM_001321036,NM | **SLC30A4** | solute carrier family 30 r | protein_coding | 3 | 3 | 4 | 4 | 0.987 |
| 7783 | NM_001376231,NM | **ZP2** | zona pellucida glycoprot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7784 | NM_001110354,NM | **ZP3** | zona pellucida glycoprot | protein_coding | 1 | 1 | 2 | 2 | 1.078 |
| 7786 | NM_001193511,NM | **MAP3K12** | mitogen-activated proteir | protein_coding | 6 | 6 | 7 | 7 | 0.958 |
| 7789 | NM_007156 | **ZXDA** | zinc finger X-linked dupli | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 7791 | NM_001010972,NM | **ZYX** | zyxin | protein_coding | 214 | 208 | 215 | 209 | 0.972 |
| 7798 | NM_001142546,NM | **LUZP1** | leucine zipper protein 1 | protein_coding | 14 | 11 | 15 | 12 | 0.775 |
| 7799 | NM_001007257,NM | **PRDM2** | PR/SET domain 2 | protein_coding | 41 | 39 | 42 | 40 | 0.957 |
| 7802 | NM_003462 | **DNALI1** | dynein axonemal light int | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7803 | NM_003463,XM_01 | **PTP4A1** | protein tyrosine phospha | protein_coding | 114 | 110 | 115 | 111 | 0.965 |
| 7804 | NM_001018054,NM | **LRP8** | LDL receptor related prot | protein_coding | 53 | 44 | 54 | 45 | 0.838 |
| 7805 | NM_006762,XM_01 | **LAPTM5** | lysosomal protein transm | protein_coding | 96 | 86 | 97 | 87 | 0.891 |
| 7809 | NM_057176 | **BSND** | barttin CLCNK type acce | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7812 | NM_001007553,NM | **CSDE1** | cold shock domain conta | protein_coding | 353 | 330 | 354 | 331 | 0.935 |
| 7813 | NM_001308248,NM | **EVI5** | ecotropic viral integration | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7818 | NM_001199849,NM | **DAP3** | death associated protein | protein_coding | 210 | 192 | 211 | 193 | 0.913 |
| 7827 | NM_001297575,NM | **NPHS2** | NPHS2 stomatin family r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7832 | NM_006763 | **BTG2** | BTG anti-proliferation fac | protein_coding | 22 | 21 | 23 | 22 | 0.963 |
| 7837 | NM_012293,XM_00 | **PXDN** | peroxidasin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7840 | NM_001378454,NM | **ALMS1** | ALMS1 centrosome and | protein_coding | 10 | 8 | 11 | 9 | 0.857 |
| 7841 | NM_001146158,NM | **MOGS** | mannosyl-oligosacharid | protein_coding | 84 | 84 | 85 | 85 | 1.003 |
| 7844 | NM_001198951,NM | **RNF103** | ring finger protein 103 | protein_coding | 7 | 7 | 8 | 8 | 1.021 |
| 7845 | gene-PAFAH1B1P1 | **PAFAH1B1P1** | platelet activating factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 7846 | NM_001270399,NM | **TUBA1A** | tubulin alpha 1a | protein_coding | 284 | 308 | 285 | 309 | 1.084 |
| 7849 | NM_003466,NM_01 | **PAX8** | paired box 8 | protein_coding | 2 | 2 | 3 | 3 | 1.290 |
| 7850 | NM_001261419,NM | **IL1R2** | interleukin 1 receptor typ | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 7851 | NM_001371559,NM | **MALL** | mal, T cell differentiation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7852 | NM_001008540,NM | **CXCR4** | C-X-C motif chemokine r | protein_coding | 239 | 245 | 240 | 246 | 1.026 |
| 7855 | NM_003468,XM_02 | **FZD5** | frizzled class receptor 5 | protein_coding | 1 | 0 | 2 | 1 | 0.765 |
| 7857 | NM_003469 | **SCG2** | secretogranin II | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 7862 | NM_001003694,NM | **BRPF1** | bromodomain and PHD f | protein_coding | 24 | 25 | 25 | 26 | 1.036 |
| 7866 | NM_006764 | **IFRD2** | interferon related develo | protein_coding | 93 | 102 | 94 | 103 | 1.096 |
| 7867 | NM_001243925,NM | **MAPKAPK3** | MAPK activated protein k | protein_coding | 164 | 165 | 165 | 166 | 1.003 |
| 7869 | NM_001005914,NM | **SEMA3B** | semaphorin 3B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7871 | NM_001304420,NM | **SLMAP** | sarcolemma associated p | protein_coding | 18 | 17 | 19 | 18 | 0.950 |
| 7873 | NM_006010 | **MANF** | mesencephalic astrocyte | protein_coding | 353 | 358 | 354 | 359 | 1.015 |
| 7874 | NM_001286457,NM | **USP7** | ubiquitin specific peptida | protein_coding | 124 | 111 | 125 | 112 | 0.900 |
| 7879 | NM_004637 | **RAB7A** | RAB7A, member RAS on | protein_coding | 268 | 268 | 269 | 269 | 1.001 |
| 7881 | NM_001308217,NM | **KCNAB1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 7884 | NM_001306074,NM | **SLBP** | stem-loop binding protei | protein_coding | 99 | 130 | 100 | 131 | 1.318 |
| 7903 | NM_005668,NM_17 | **ST8SIA4** | ST8 alpha-N-acetyl-neur | protein_coding | 36 | 28 | 37 | 29 | 0.777 |
| 7905 | NM_005669,XM_01 | **REEP5** | receptor accessory prote | protein_coding | 113 | 106 | 114 | 107 | 0.939 |
| 7913 | NM_001134709,NM | **DEK** | DEK proto-oncogene | protein_coding | 554 | 471 | 555 | 472 | 0.851 |
| 7915 | NM_001080,NM_00 | **ALDH5A1** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7916 | NM_004638,NM_08 | **PRRC2A** | proline rich coiled-coil 2A | protein_coding | 258 | 238 | 259 | 239 | 0.925 |
| 7917 | NM_001098534,NM | **BAG6** | BAG cochaperone 6 | protein_coding | 144 | 137 | 145 | 138 | 0.950 |
| 7918 | NM_001199237,NM | **GPANK1** | G-patch domain and ank | protein_coding | 50 | 44 | 51 | 45 | 0.884 |
| 7919 | NM_004640,NM_08 | **DDX39B** | DExD-box helicase 39B | protein_coding | 296 | 302 | 297 | 303 | 1.019 |
| 7920 | NM_001177515,NM | **ABHD16A** | abhydrolase domain con | protein_coding | 55 | 50 | 56 | 51 | 0.908 |
| 7922 | NM_001077516,NM | **SLC39A7** | solute carrier family 39 r | protein_coding | 171 | 169 | 172 | 170 | 0.994 |
| 7923 | NM_014234 | **HSD17B8** | hydroxysteroid 17-beta d | protein_coding | 8 | 9 | 9 | 10 | 1.118 |
| 7932 | NM_007160,XM_01 | **OR2H2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7936 | NM_002904,XM_00 | **NELFE** | negative elongation factc | protein_coding | 141 | 137 | 142 | 138 | 0.973 |
| 7940 | NM_001166538,NM | **LST1** | leukocyte specific transc | protein_coding | 45 | 47 | 46 | 48 | 1.056 |
| 7941 | NM_001168357,NM | **PLA2G7** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7942 | NM_001167827,NM | **TFEB** | transcription factor EB | protein_coding | 2 | 1 | 3 | 2 | 0.729 |
| 7955 | NR_026876 | **RNF217-AS1** | RNF217 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 7957 | NM_001018041,NM | **EPM2A** | EPM2A glucan phosphat | protein_coding | 3 | 3 | 4 | 4 | 0.988 |
| 7965 | NM_001326606,NM | **AIMP2** | aminoacyl tRNA synthet | protein_coding | 89 | 96 | 90 | 97 | 1.088 |
| 7975 | NM_002360,XM_00 | **MAFK** | MAF bZIP transcription fa | protein_coding | 29 | 29 | 30 | 30 | 0.989 |
| 7976 | NM_017412,NM_14 | **FZD3** | frizzled class receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7978 | NM_001301134,NM | **MTERF1** | mitochondrial transcriptic | protein_coding | 19 | 21 | 20 | 22 | 1.125 |
| 7979 | NM_006304,NR_03 | **SEM1** | SEM1 26S proteasome c | protein_coding | 361 | 359 | 362 | 360 | 0.994 |
| 7980 | NM_001271003,NM | **TFPI2** | tissue factor pathway inh | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7982 | NM_001369598,NM | **ST7** | suppression of tumorige | protein_coding | 4 | 3 | 5 | 4 | 0.784 |
| 7984 | NM_005435,XM_01 | **ARHGEF5** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7988 | NM_012256 | **ZNF212** | zinc finger protein 212 | protein_coding | 12 | 12 | 13 | 13 | 1.000 |
| 7991 | NM_001356429,NM | **TUSC3** | tumor suppressor candic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 7993 | NM_001282189,NM | **UBXN8** | UBX domain protein 8 | protein_coding | 36 | 36 | 37 | 37 | 1.001 |
| 7994 | NM_001305878,NM | **KAT6A** | lysine acetyltransferase 6 | protein_coding | 44 | 36 | 45 | 37 | 0.820 |
| 8000 | NM_005672,NR_03 | **PSCA** | prostate stem cell antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8001 | NM_001042543,NM | **GLRA3** | glycine receptor alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 8013 | NM_006981,NM_17 | **NR4A3** | nuclear receptor subfam | protein_coding | 1 | 1 | 2 | 2 | 1.003 |
| 8019 | NM_007371,XM_00 | **BRD3** | bromodomain containing | protein_coding | 11 | 10 | 12 | 11 | 0.891 |
| 8021 | NM_001318324,NM | **NUP214** | nucleoporin 214 | protein_coding | 26 | 25 | 27 | 26 | 0.970 |
| 8022 | NM_001363746,NM | **LHX3** | LIM homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 8027 | NM_001324282,NM | **STAM** | signal transducing adapt | protein_coding | 2 | 3 | 3 | 4 | 1.022 |
| 8028 | NM_001195626,NM | **MLLT10** | MLLT10 histone lysine m | protein_coding | 8 | 6 | 9 | 7 | 0.852 |
| 8029 | NM_001081,XM_01 | **CUBN** | cubilin | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 8030 | NM_005436 | **CCDC6** | coiled-coil domain contai | protein_coding | 25 | 24 | 26 | 25 | 0.972 |
| 8031 | NM_001145260,NM | **NCOA4** | nuclear receptor coactiva | protein_coding | 147 | 134 | 148 | 135 | 0.914 |
| 8034 | NM_001324312,NM | **SLC25A16** | solute carrier family 25 r | protein_coding | 6 | 5 | 7 | 6 | 0.939 |
| 8036 | NM_001269039,NM | **SHOC2** | SHOC2 leucine rich repe | protein_coding | 32 | 27 | 33 | 28 | 0.849 |
| 8038 | NM_001288973,NM | **ADAM12** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8045 | NM_001143993,NM | **RASSF7** | Ras association domain f | protein_coding | 15 | 15 | 16 | 16 | 0.948 |
| 8048 | NM_001369404,NM | **CSRP3** | cysteine and glycine rich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8050 | NM_001135024,NM | **PDHX** | pyruvate dehydrogenase | protein_coding | 57 | 50 | 58 | 51 | 0.872 |
| 8061 | NM_001300844,NM | **FOSL1** | FOS like 1, AP-1 transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8065 | NM_003478,XM_00 | **CUL5** | cullin 5 | protein_coding | 23 | 19 | 24 | 20 | 0.841 |
| 8073 | NM_001195100,NM | **PTP4A2** | protein tyrosine phospha | protein_coding | 302 | 286 | 303 | 287 | 0.948 |
| 8074 | NM_020638 | **FGF23** | fibroblast growth factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8076 | NM_001297709,NM | **MFAP5** | microfibril associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8078 | NM_001098536,NM | **USP5** | ubiquitin specific peptida | protein_coding | 53 | 57 | 54 | 58 | 1.071 |
| 8079 | NM_001382225,NM | **MLF2** | myeloid leukemia factor 2 | protein_coding | 121 | 126 | 122 | 127 | 1.037 |
| 8082 | NM_001135823,NM | **SSPN** | sarcospan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8085 | NM_003482,XM_00 | **KMT2D** | lysine methyltransferase | protein_coding | 30 | 24 | 31 | 25 | 0.803 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8086 | NM_001173466,NM | **AAAS** | aladin WD repeat nucleo | protein_coding | 57 | 61 | 58 | 62 | 1.061 |
| 8087 | NM_001013438,NM | **FXR1** | FMR1 autosomal homolc | protein_coding | 119 | 112 | 120 | 113 | 0.947 |
| 8089 | NM_001300950,NM | **YEATS4** | YEATS domain containin | protein_coding | 42 | 36 | 43 | 37 | 0.860 |
| 8091 | NM_001300918,NM | **HMGA2** | high mobility group AT-h | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8092 | NM_006982,XM_01 | **ALX1** | ALX homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8099 | NM_001270433,NM | **CDK2AP1** | cyclin dependent kinase | protein_coding | 26 | 25 | 27 | 26 | 0.991 |
| 8100 | NM_001318491,NM | **IFT88** | intraflagellar transport 8 | protein_coding | 10 | 9 | 11 | 10 | 0.867 |
| 8106 | NM_001360551,NM | **PABPN1** | poly(A) binding protein n | protein_coding | 164 | 194 | 165 | 195 | 1.183 |
| 8110 | NM_001280542,NM | **DPF3** | double PHD fingers 3 | protein_coding | 13 | 12 | 14 | 13 | 0.872 |
| 8111 | NM_001177676,NM | **GPR68** | G protein-coupled recep | protein_coding | 34 | 34 | 35 | 35 | 1.015 |
| 8115 | NM_001098725,NM | **TCL1A** | TCL1 family AKT coactiva | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8120 | NM_001278511,NM | **AP3B2** | adaptor related protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8123 | NR_022008 | **PWAR5** | Prader Willi/Angelman re | lncRNA | 3 | 2 | 4 | 3 | 0.721 |
| 8125 | NM_006305 | **ANP32A** | acidic nuclear phosphop | protein_coding | 520 | 524 | 521 | 525 | 1.006 |
| 8128 | NM_001330416,NM | **ST8SIA2** | ST8 alpha-N-acetyl-neur | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8131 | NM_001039476,NM | **NPRL3** | NPR3 like, GATOR1 com | protein_coding | 37 | 41 | 38 | 42 | 1.098 |
| 8139 | NM_001377486,NM | **GAN** | gigaxonin | protein_coding | 4 | 4 | 5 | 5 | 0.873 |
| 8140 | NM_003486,XM_00 | **SLC7A5** | solute carrier family 7 me | protein_coding | 92 | 84 | 93 | 85 | 0.914 |
| 8148 | NM_003487,NM_13 | **TAF15** | TATA-box binding protein | protein_coding | 629 | 658 | 630 | 659 | 1.044 |
| 8153 | NM_005440,XM_01 | **RND2** | Rho family GTPase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8161 | NM_004645 | **COIL** | coilin | protein_coding | 36 | 36 | 37 | 37 | 0.981 |
| 8165 | NM_001242902,NM | **AKAP1** | A-kinase anchoring prote | protein_coding | 66 | 65 | 67 | 66 | 0.986 |
| 8170 | NM_001242692,NM | **SLC14A2** | solute carrier family 14 m | protein_coding | 5 | 5 | 6 | 6 | 1.043 |
| 8174 | NM_130760,NM_13 | **MADCAM1** | mucosal vascular addres | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8175 | NM_007165 | **SF3A2** | splicing factor 3a subuni | protein_coding | 207 | 210 | 208 | 211 | 1.013 |
| 8178 | NM_006532,XM_01 | **ELL** | elongation factor for RNA | protein_coding | 27 | 26 | 28 | 27 | 0.958 |
| 8187 | NM_001099282,NM | **ZNF239** | zinc finger protein 239 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8189 | NM_004819,XM_00 | **SYMPK** | symplekin | protein_coding | 71 | 69 | 72 | 70 | 0.974 |
| 8190 | NM_001202553,NM | **MIA** | MIA SH3 domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.249 |
| 8192 | NM_006012 | **CLPP** | caseinolytic mitochondria | protein_coding | 58 | 62 | 59 | 63 | 1.071 |
| 8193 | NM_001135155,NM | **DPF1** | double PHD fingers 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8195 | NM_018848,NM_17 | **MKKS** | McKusick-Kaufman synd | protein_coding | 9 | 9 | 10 | 10 | 0.976 |
| 8200 | NM_000557,NM_00 | **GDF5** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 8202 | NM_001174087,NM | **NCOA3** | nuclear receptor coactiva | protein_coding | 37 | 29 | 38 | 30 | 0.793 |
| 8204 | NM_003489,XM_00 | **NRIP1** | nuclear receptor interacti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8208 | NM_005441,XM_01 | **CHAF1B** | chromatin assembly fact | protein_coding | 22 | 20 | 23 | 21 | 0.906 |
| 8209 | NM_001320383,NM | **GATD3A** | glutamine amidotransfera | protein_coding | 56 | 60 | 57 | 61 | 1.069 |
| 8214 | NM_005675,XM_01 | **DGCR6** | DiGeorge syndrome critic | protein_coding | 1 | 1 | 2 | 2 | 1.148 |
| 8215 | gene-DVL1P1 | **DVL1P1** | dishevelled segment pol | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8216 | NM_006767 | **LZTR1** | leucine zipper like transc | protein_coding | 15 | 14 | 16 | 15 | 0.957 |
| 8218 | NM_001835,NM_00 | **CLTCL1** | clathrin heavy chain like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8220 | NM_022719,NR_13 | **ESS2** | ess-2 splicing factor hom | protein_coding | 17 | 15 | 18 | 16 | 0.879 |
| 8224 | NM_001135774,NM | **SYN3** | synapsin III | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8225 | NM_012227,NM_01 | **GTPBP6** | GTP binding protein 6 (p | protein_coding | 29 | 31 | 30 | 32 | 1.069 |
| 8226 | NM_001135565,NM | **PUDP** | pseudouridine 5'-phosph | protein_coding | 49 | 48 | 50 | 49 | 0.980 |
| 8227 | NM_005088,NM_00 | **AKAP17A** | A-kinase anchoring prote | protein_coding | 27 | 31 | 28 | 32 | 1.137 |
| 8228 | NM_001142389,NM | **PNPLA4** | patatin like phospholipas | protein_coding | 6 | 8 | 7 | 9 | 1.210 |
| 8233 | NM_005089,XM_00 | **ZRSR2** | zinc finger CCCH-type, F | protein_coding | 21 | 17 | 22 | 18 | 0.794 |
| 8237 | NM_001371072,XM | **USP11** | ubiquitin specific peptida | protein_coding | 66 | 69 | 67 | 70 | 1.045 |
| 8239 | NM_001039590,NM | **USP9X** | ubiquitin specific peptida | protein_coding | 34 | 28 | 35 | 29 | 0.823 |
| 8241 | NM_001204466,NM | **RBM10** | RNA binding motif protei | protein_coding | 88 | 87 | 89 | 88 | 0.991 |
| 8242 | NM_001146702,NM | **KDM5C** | lysine demethylase 5C | protein_coding | 59 | 56 | 60 | 57 | 0.953 |
| 8243 | NM_001281463,NM | **SMC1A** | structural maintenance o | protein_coding | 84 | 78 | 85 | 79 | 0.934 |
| 8251 | gene-HNRNPDP1 | **HNRNPDP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8260 | NM_001256119,NM | **NAA10** | N-alpha-acetyltransferas | protein_coding | 106 | 100 | 107 | 101 | 0.943 |
| 8263 | NM_012151 | **F8A1** | coagulation factor VIII as | protein_coding | 21 | 23 | 22 | 24 | 1.118 |
| 8266 | NM_014235 | **UBL4A** | ubiquitin like 4A | protein_coding | 98 | 99 | 99 | 100 | 1.008 |
| 8269 | NM_003492,XM_01 | **TMEM187** | transmembrane protein 1 | protein_coding | 2 | 2 | 3 | 3 | 0.978 |
| 8270 | NM_006014 | **LAGE3** | L antigen family member | protein_coding | 52 | 56 | 53 | 57 | 1.087 |
| 8273 | NM_001142391,NM | **SLC10A3** | solute carrier family 10 m | protein_coding | 45 | 50 | 46 | 51 | 1.116 |
| 8277 | NM_001145933,NM | **TKTL1** | transketolase like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.885 |
| 8284 | NM_001146705,NM | **KDM5D** | lysine demethylase 5D | protein_coding | 22 | 19 | 23 | 20 | 0.864 |
| 8287 | NM_004654,XM_01 | **USP9Y** | ubiquitin specific peptida | protein_coding | 9 | 8 | 10 | 9 | 0.876 |
| 8288 | NM_000502 | **EPX** | eosinophil peroxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8289 | NM_006015,NM_13 | **ARID1A** | AT-rich interaction domai | protein_coding | 78 | 72 | 79 | 73 | 0.922 |
| 8290 | NM_003493 | **H3-4** | H3.4 histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8291 | NM_001130455,NM | **DYSF** | dysferlin | protein_coding | 34 | 30 | 35 | 31 | 0.894 |
| 8292 | NM_005677,NM_08 | **COLQ** | collagen like tail subunit | protein_coding | 1 | 1 | 2 | 2 | 1.281 |
| 8293 | NM_021967,NM_02 | **SERF1A** | small EDRK-rich factor 1 | protein_coding | 20 | 21 | 21 | 22 | 1.011 |
| 8294 | NM_003495 | **H4C9** | H4 clustered histone 9 | protein_coding | 9 | 14 | 10 | 15 | 1.490 |
| 8295 | NM_001244580,NM | **TRRAP** | transformation/transcripti | protein_coding | 39 | 31 | 40 | 32 | 0.798 |
| 8301 | NM_001008660,NM | **PICALM** | phosphatidylinositol bind | protein_coding | 107 | 94 | 108 | 95 | 0.878 |
| 8302 | NM_013431 | **KLRC4** | killer cell lectin like recep | protein_coding | 2 | 1 | 3 | 2 | 0.733 |
| 8303 | NM_003498,XM_01 | **SNN** | stannin | protein_coding | 3 | 3 | 4 | 4 | 1.043 |
| 8309 | NM_003500,XM_00 | **ACOX2** | acyl-CoA oxidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 8310 | NM_001101667,NM | **ACOX3** | acyl-CoA oxidase 3, prist | protein_coding | 5 | 5 | 6 | 6 | 1.043 |
| 8312 | NM_003502,NM_18 | **AXIN1** | axin 1 | protein_coding | 92 | 90 | 93 | 91 | 0.984 |
| 8313 | NM_001363813,NM | **AXIN2** | axin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8314 | NM_004656,XM_01 | **BAP1** | BRCA1 associated protei | protein_coding | 61 | 60 | 62 | 61 | 0.990 |
| 8315 | NM_006768,XM_00 | **BRAP** | BRCA1 associated protei | protein_coding | 24 | 24 | 25 | 25 | 0.965 |
| 8317 | NM_001134419,NM | **CDC7** | cell division cycle 7 | protein_coding | 63 | 56 | 64 | 57 | 0.894 |
| 8318 | NM_001178010,NM | **CDC45** | cell division cycle 45 | protein_coding | 73 | 73 | 74 | 74 | 1.006 |
| 8320 | NM_001278182,NM | **EOMES** | eomesodermin | protein_coding | 84 | 79 | 85 | 80 | 0.944 |
| 8321 | NM_003505 | **FZD1** | frizzled class receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 8322 | NM_012193 | **FZD4** | frizzled class receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 8323 | NM_001164615,NM | **FZD6** | frizzled class receptor 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8324 | NM_003507 | **FZD7** | frizzled class receptor 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8325 | NM_031866 | **FZD8** | frizzled class receptor 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8326 | NM_003508 | **FZD9** | frizzled class receptor 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8327 | gene-GABPAP | **GABPAP** | GABPA pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.889 |
| 8328 | NM_001135031,NM | **GFI1B** | growth factor independe | protein_coding | 1 | 1 | 2 | 2 | 1.096 |
| 8329 | NM_003509 | **H2AC13** | H2A clustered histone 13 | protein_coding | 4 | 6 | 5 | 7 | 1.342 |
| 8330 | NM_003510 | **H2AC15** | H2A clustered histone 15 | protein_coding | 1 | 2 | 2 | 3 | 1.401 |
| 8331 | NM_021066 | **H2AC14** | H2A clustered histone 14 | protein_coding | 1 | 2 | 2 | 3 | 1.474 |
| 8332 | NM_003511 | **H2AC16** | H2A clustered histone 16 | protein_coding | 3 | 4 | 4 | 5 | 1.195 |
| 8334 | NM_003512 | **H2AC6** | H2A clustered histone 6 | protein_coding | 87 | 98 | 88 | 99 | 1.120 |
| 8335 | NM_003513 | **H2AC4** | H2A clustered histone 4 | protein_coding | 1 | 1 | 2 | 2 | 1.059 |
| 8336 | NM_003514 | **H2AC17** | H2A clustered histone 17 | protein_coding | 4 | 6 | 5 | 7 | 1.347 |
| 8337 | NM_003516 | **H2AC18** | H2A clustered histone 18 | protein_coding | 59 | 65 | 60 | 66 | 1.086 |
| 8338 | NM_003517 | **H2AC20** | H2A clustered histone 20 | protein_coding | 7 | 9 | 8 | 10 | 1.355 |
| 8339 | NM_003518 | **H2BC8** | H2B clustered histone 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8340 | NM_003519 | **H2BC13** | H2B clustered histone 13 | protein_coding | 0 | 1 | 1 | 2 | 1.658 |
| 8341 | NM_003520 | **H2BC15** | H2B clustered histone 15 | protein_coding | 2 | 2 | 3 | 3 | 1.275 |
| 8342 | NM_003521 | **H2BC14** | H2B clustered histone 14 | protein_coding | 2 | 2 | 3 | 3 | 1.037 |
| 8343 | NM_003522 | **H2BC7** | H2B clustered histone 7 | protein_coding | 1 | 1 | 2 | 2 | 0.961 |
| 8344 | NM_003523 | **H2BC6** | H2B clustered histone 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8345 | NM_003524 | **H2BC9** | H2B clustered histone 9 | protein_coding | 7 | 9 | 8 | 10 | 1.181 |
| 8346 | NM_003525 | **H2BC10** | H2B clustered histone 10 | protein_coding | 1 | 1 | 2 | 2 | 1.120 |
| 8347 | NM_001381989,NM | **H2BC4** | H2B clustered histone 4 | protein_coding | 6 | 5 | 7 | 6 | 0.937 |
| 8348 | NM_003527 | **H2BC17** | H2B clustered histone 17 | protein_coding | 7 | 6 | 8 | 7 | 0.863 |
| 8349 | NM_003528 | **H2BC21** | H2B clustered histone 21 | protein_coding | 3 | 2 | 4 | 3 | 0.811 |
| 8350 | NM_003529 | **H3C1** | H3 clustered histone 1 | protein_coding | 0 | 1 | 1 | 2 | 1.592 |
| 8351 | NM_001376937,NM | **H3C4** | H3 clustered histone 4 | protein_coding | 7 | 5 | 8 | 6 | 0.746 |
| 8352 | NM_003531 | **H3C3** | H3 clustered histone 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8353 | NM_001381999,NM | **H3C6** | H3 clustered histone 6 | protein_coding | 0 | 0 | 1 | 1 | 0.804 |
| 8354 | NM_003533 | **H3C11** | H3 clustered histone 11 | protein_coding | 3 | 3 | 4 | 4 | 1.067 |
| 8355 | NM_003534 | **H3C8** | H3 clustered histone 8 | protein_coding | 3 | 4 | 4 | 5 | 1.113 |
| 8356 | NM_003535 | **H3C12** | H3 clustered histone 12 | protein_coding | 0 | 0 | 1 | 1 | 0.872 |
| 8357 | NM_003536 | **H3C10** | H3 clustered histone 10 | protein_coding | 6 | 6 | 7 | 7 | 0.946 |
| 8358 | NM_003537 | **H3C2** | H3 clustered histone 2 | protein_coding | 1 | 0 | 2 | 1 | 0.700 |
| 8359 | NM_003538 | **H4C1** | H4 clustered histone 1 | protein_coding | 0 | 1 | 1 | 2 | 1.058 |
| 8360 | NM_003539 | **H4C4** | H4 clustered histone 4 | protein_coding | 2 | 1 | 3 | 2 | 0.831 |
| 8361 | NM_003540 | **H4C6** | H4 clustered histone 6 | protein_coding | 1 | 1 | 2 | 2 | 1.202 |
| 8362 | NM_003541 | **H4C12** | H4 clustered histone 12 | protein_coding | 8 | 8 | 9 | 9 | 1.020 |
| 8363 | NM_021968 | **H4C11** | H4 clustered histone 11 | protein_coding | 8 | 9 | 9 | 10 | 1.096 |
| 8364 | NM_003542 | **H4C3** | H4 clustered histone 3 | protein_coding | 3 | 2 | 4 | 3 | 0.705 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8365 | NM_003543 | **H4C8** | H4 clustered histone 8 | protein_coding | 4 | 6 | 5 | 7 | 1.353 |
| 8366 | NM_003544 | **H4C2** | H4 clustered histone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8367 | NM_003545 | **H4C5** | H4 clustered histone 5 | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 8368 | NM_003546 | **H4C13** | H4 clustered histone 13 | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 8369 | NM_003547 | **H4C7** | H4 clustered histone 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8370 | NM_003548 | **H4C14** | H4 clustered histone 14 | protein_coding | 11 | 13 | 12 | 14 | 1.132 |
| 8372 | NM_001200029,NM | **HYAL3** | hyaluronidase 3 | protein_coding | 5 | 5 | 6 | 6 | 1.001 |
| 8373 | gene-IFIT1P1 | **IFIT1P1** | interferon induced protei | pseudogene | 0 | 0 | 1 | 1 | 1.187 |
| 8379 | NM_001013836,NM | **MAD1L1** | mitotic arrest deficient 1 | protein_coding | 64 | 73 | 65 | 74 | 1.131 |
| 8382 | NM_003551,XM_00 | **NME5** | NME/NM23 family memb | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8383 | NM_014565 | **OR1A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8386 | NM_014566 | **OR1D5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8387 | NM_003553 | **OR1E1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8388 | NM_003554 | **OR1E2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8389 | NM_001348201 | **OR1E3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8390 | NM_003555 | **OR1G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8392 | NM_012373,XM_01 | **OR3A3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8394 | NM_001135636,NM | **PIP5K1A** | phosphatidylinositol-4-ph | protein_coding | 98 | 87 | 99 | 88 | 0.892 |
| 8395 | NM_001278253,NM | **PIP5K1B** | phosphatidylinositol-4-ph | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 8396 | NM_003559,XM_01 | **PIP4K2B** | phosphatidylinositol-5-ph | protein_coding | 66 | 61 | 67 | 62 | 0.931 |
| 8398 | NM_001004426,NM | **PLA2G6** | phospholipase A2 group | protein_coding | 2 | 2 | 3 | 3 | 0.988 |
| 8399 | NM_003561,NR_13 | **PLA2G10** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8402 | NM_001165417,NM | **SLC25A11** | solute carrier family 25 m | protein_coding | 59 | 64 | 60 | 65 | 1.089 |
| 8403 | NM_004189 | **SOX14** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8404 | NM_001128310,NM | **SPARCL1** | SPARC like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8405 | NM_001007226,NM | **SPOP** | speckle type BTB/POZ p | protein_coding | 38 | 37 | 39 | 38 | 0.964 |
| 8406 | NM_001170750,NM | **SRPX** | sushi repeat containing p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8407 | NM_001277223,NM | **TAGLN2** | transgelin 2 | protein_coding | 985 | 1,057 | 986 | 1,058 | 1.073 |
| 8408 | NM_003565,XM_01 | **ULK1** | unc-51 like autophagy ac | protein_coding | 6 | 6 | 7 | 7 | 1.049 |
| 8409 | NM_004182,NM_15 | **UXT** | ubiquitously expressed p | protein_coding | 142 | 152 | 143 | 153 | 1.070 |
| 8410 | gene-RPS9P1 | **RPS9P1** | ribosomal protein S9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8411 | NM_003566,XM_01 | **EEA1** | early endosome antigen | protein_coding | 7 | 7 | 8 | 8 | 0.957 |
| 8412 | NM_001261408,NM | **BCAR3** | BCAR3 adaptor protein, | protein_coding | 0 | 0 | 1 | 1 | 1.174 |
| 8416 | NM_003568,XM_01 | **ANXA9** | annexin A9 | protein_coding | 2 | 3 | 3 | 4 | 1.188 |
| 8417 | NM_001326578,NM | **STX7** | syntaxin 7 | protein_coding | 7 | 5 | 8 | 6 | 0.734 |
| 8418 | NR_002174,NR_02 | **CMAHP** | cytidine monophospho-N | transcribed_pseu | 87 | 61 | 88 | 62 | 0.706 |
| 8419 | NM_003571,XM_01 | **BFSP2** | beaded filament structur | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8420 | NR_002909,NR_03 | **SNHG3** | small nucleolar RNA hos | lncRNA | 70 | 63 | 71 | 64 | 0.901 |
| 8424 | NM_001376258,NM | **BBOX1** | gamma-butyrobetaine hy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8425 | NM_001042544,NM | **LTBP4** | latent transforming growt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8427 | NM_001303481,NM | **ZNF282** | zinc finger protein 282 | protein_coding | 15 | 17 | 16 | 18 | 1.068 |
| 8428 | NM_001032296,NM | **STK24** | serine/threonine kinase 2 | protein_coding | 93 | 79 | 94 | 80 | 0.856 |
| 8431 | NM_021969,XM_01 | **NR0B2** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8433 | NM_003577 | **UTF1** | undifferentiated embryon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8434 | NM_001316345,NM | **RECK** | reversion inducing cystei | protein_coding | 1 | 0 | 2 | 1 | 0.949 |
| 8435 | NM_003578 | **SOAT2** | sterol O-acyltransferase | protein_coding | 1 | 1 | 2 | 2 | 1.130 |
| 8436 | NM_004657 | **CAVIN2** | caveolae associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8437 | NM_001193520,NM | **RASAL1** | RAS protein activator like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8438 | NM_001142548,NM | **RAD54L** | RAD54 like | protein_coding | 23 | 22 | 24 | 23 | 0.963 |
| 8439 | NM_001144772,NM | **NSMAF** | neutral sphingomyelinas | protein_coding | 63 | 58 | 64 | 59 | 0.937 |
| 8440 | NM_001004720,NM | **NCK2** | NCK adaptor protein 2 | protein_coding | 5 | 4 | 6 | 5 | 0.762 |
| 8443 | NM_001316350,NM | **GNPAT** | glyceronephosphate O-a | protein_coding | 55 | 48 | 56 | 49 | 0.884 |
| 8444 | NM_001004023,NM | **DYRK3** | dual specificity tyrosine p | protein_coding | 2 | 2 | 3 | 3 | 0.871 |
| 8445 | NM_003583,NM_00 | **DYRK2** | dual specificity tyrosine p | protein_coding | 10 | 8 | 11 | 9 | 0.799 |
| 8446 | NM_003584 | **DUSP11** | dual specificity phosphat | protein_coding | 71 | 67 | 72 | 68 | 0.937 |
| 8447 | NM_003585,XM_01 | **DOC2B** | double C2 domain beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8448 | NM_001282062,NM | **DOC2A** | double C2 domain alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8449 | NM_001164239,NM | **DHX16** | DEAH-box helicase 16 | protein_coding | 80 | 83 | 81 | 84 | 1.030 |
| 8450 | NM_001079872,NM | **CUL4B** | cullin 4B | protein_coding | 21 | 19 | 22 | 20 | 0.911 |
| 8451 | NM_001008895,NM | **CUL4A** | cullin 4A | protein_coding | 81 | 78 | 82 | 79 | 0.960 |
| 8452 | NM_001257197,NM | **CUL3** | cullin 3 | protein_coding | 67 | 60 | 68 | 61 | 0.895 |
| 8453 | NM_001198777,NM | **CUL2** | cullin 2 | protein_coding | 15 | 12 | 16 | 13 | 0.831 |
| 8454 | NM_001370660,NM | **CUL1** | cullin 1 | protein_coding | 309 | 267 | 310 | 268 | 0.864 |
| 8455 | NM_001207047,NM | **ATRN** | attractin | protein_coding | 10 | 8 | 11 | 9 | 0.834 |
| 8456 | NM_001369369,NM | **FOXN1** | forkhead box N1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8458 | NM_003594,XM_00 | **TTF2** | transcription termination | protein_coding | 43 | 41 | 44 | 42 | 0.960 |
| 8459 | NM_001008566,NM | **TPST2** | tyrosylprotein sulfotransf | protein_coding | 31 | 34 | 32 | 35 | 1.079 |
| 8460 | NM_003596,XM_00 | **TPST1** | tyrosylprotein sulfotransf | protein_coding | 0 | 1 | 1 | 2 | 1.176 |
| 8462 | NM_001177716,NM | **KLF11** | Kruppel like factor 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8463 | NM_001256658,NM | **TEAD2** | TEA domain transcriptior | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 8464 | NM_001261823,NM | **SUPT3H** | SPT3 homolog, SAGA a | protein_coding | 4 | 3 | 5 | 4 | 0.857 |
| 8467 | NM_003601,XR_00 | **SMARCA5** | SWI/SNF related, matrix | protein_coding | 78 | 70 | 79 | 71 | 0.899 |
| 8468 | NM_001135211,NM | **FKBP6** | FKBP prolyl isomerase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8470 | NM_001145670,NM | **SORBS2** | sorbin and SH3 domain c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8471 | NM_001379150,NM | **IRS4** | insulin receptor substrate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8473 | NM_181672,NM_18 | **OGT** | O-linked N-acetylglucosa | protein_coding | 111 | 101 | 112 | 102 | 0.909 |
| 8476 | NM_001366010,NM | **CDC42BPA** | CDC42 binding protein k | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8477 | NM_003608 | **GPR65** | G protein-coupled recep | protein_coding | 11 | 11 | 12 | 12 | 0.934 |
| 8479 | NM_001197323,NM | **HIRIP3** | HIRA interacting protein | protein_coding | 75 | 80 | 76 | 81 | 1.059 |
| 8480 | NM_001015885,NM | **RAE1** | ribonucleic acid export 1 | protein_coding | 106 | 113 | 107 | 114 | 1.065 |
| 8481 | NM_001330209,NM | **OFD1** | OFD1 centriole and cent | protein_coding | 27 | 19 | 28 | 20 | 0.722 |
| 8482 | NM_001146029,NM | **SEMA7A** | semaphorin 7A (John Mil | protein_coding | 71 | 78 | 72 | 79 | 1.095 |
| 8483 | NM_003613,XM_01 | **CILP** | cartilage intermediate lay | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8484 | NM_003614 | **GALR3** | galanin receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8487 | NM_001009182,NM | **GEMIN2** | gem nuclear organelle a | protein_coding | 46 | 44 | 47 | 45 | 0.960 |
| 8488 | gene-RPL3P1 | **RPL3P1** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8489 | gene-RPL23AP3 | **RPL23AP3** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8490 | NM_001195303,NM | **RGS5** | regulator of G protein sig | protein_coding | 4 | 5 | 5 | 6 | 1.162 |
| 8491 | NM_001270425,NM | **MAP4K3** | mitogen-activated protein | protein_coding | 7 | 5 | 8 | 6 | 0.779 |
| 8492 | NM_003619,XM_00 | **PRSS12** | serine protease 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8493 | NM_003620,XR_93 | **PPM1D** | protein phosphatase, Mg | protein_coding | 14 | 13 | 15 | 14 | 0.901 |
| 8495 | NM_001256568,NM | **PPFIBP2** | PPFIA binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 8496 | NM_001198915,NM | **PPFIBP1** | PPFIA binding protein 1 | protein_coding | 10 | 8 | 11 | 9 | 0.800 |
| 8497 | NM_001304331,NM | **PPFIA4** | PTPRF interacting protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8498 | NM_001300865,NM | **RANBP3** | RAN binding protein 3 | protein_coding | 65 | 65 | 66 | 66 | 1.012 |
| 8499 | NM_001220473,NM | **PPFIA2** | PTPRF interacting protei | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 8500 | NM_001378006,NM | **PPFIA1** | PTPRF interacting protei | protein_coding | 49 | 45 | 50 | 46 | 0.919 |
| 8501 | NM_001198810,NM | **SLC43A1** | solute carrier family 43 m | protein_coding | 1 | 1 | 2 | 2 | 0.977 |
| 8502 | NM_001005476,NM | **PKP4** | plakophilin 4 | protein_coding | 35 | 30 | 36 | 31 | 0.853 |
| 8503 | NM_001114172,NM | **PIK3R3** | phosphoinositide-3-kinas | protein_coding | 16 | 14 | 17 | 15 | 0.886 |
| 8504 | NM_003630 | **PEX3** | peroxisomal biogenesis f | protein_coding | 18 | 19 | 19 | 20 | 1.056 |
| 8505 | NM_001303486,NM | **PARG** | poly(ADP-ribose) glycoh | protein_coding | 28 | 26 | 29 | 27 | 0.928 |
| 8506 | NM_003632,XM_00 | **CNTNAP1** | contactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 0.922 |
| 8507 | NM_001256574,NM | **ENC1** | ectodermal-neural cortex | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8508 | NM_001202502,NM | **NIPSNAP1** | nipsnap homolog 1 | protein_coding | 17 | 18 | 18 | 19 | 1.060 |
| 8509 | NM_001330107,NM | **NDST2** | N-deacetylase and N-sul | protein_coding | 12 | 12 | 13 | 13 | 0.975 |
| 8510 | NM_006983,XM_01 | **MMP23B** | matrix metallopeptidase 2 | protein_coding | 1 | 0 | 2 | 1 | 0.850 |
| 8511 | NR_002946 | **MMP23A** | matrix metallopeptidase 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.969 |
| 8512 | NR_002724 | **MBL1P** | mannose binding lectin 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 8513 | NM_001198828,NM | **LIPF** | lipase F, gastric type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8514 | NM_001199860,NM | **KCNAB2** | potassium voltage-gated | protein_coding | 175 | 180 | 176 | 181 | 1.026 |
| 8515 | NM_001303040,NM | **ITGA10** | integrin subunit alpha 10 | protein_coding | 1 | 1 | 2 | 2 | 0.982 |
| 8516 | NM_001291494,NM | **ITGA8** | integrin subunit alpha 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8517 | NM_001099856,NM | **IKBKG** | inhibitor of nuclear factor | protein_coding | 26 | 29 | 27 | 30 | 1.080 |
| 8518 | NM_001318360,NM | **ELP1** | elongator complex protei | protein_coding | 32 | 28 | 33 | 29 | 0.893 |
| 8519 | NM_003641 | **IFITM1** | interferon induced transr | protein_coding | 809 | 816 | 810 | 817 | 1.009 |
| 8520 | NM_003642,NR_02 | **HAT1** | histone acetyltransferase | protein_coding | 247 | 226 | 248 | 227 | 0.917 |
| 8521 | NM_003643,XM_01 | **GCM1** | glial cells missing transc | protein_coding | 0 | 0 | 1 | 1 | 0.943 |
| 8522 | NM_001130831,NM | **GAS7** | growth arrest specific 7 | protein_coding | 1 | 1 | 2 | 2 | 1.005 |
| 8525 | NM_001105540,NM | **DGKZ** | diacylglycerol kinase zet | protein_coding | 246 | 255 | 247 | 256 | 1.037 |
| 8526 | NM_003647,XM_01 | **DGKE** | diacylglycerol kinase eps | protein_coding | 21 | 18 | 22 | 19 | 0.842 |
| 8527 | NM_001377259,NM | **DGKD** | diacylglycerol kinase del | protein_coding | 77 | 71 | 78 | 72 | 0.922 |
| 8528 | NM_001368170,NM | **DDO** | D-aspartate oxidase | protein_coding | 0 | 0 | 1 | 1 | 1.184 |
| 8529 | NM_001082 | **CYP4F2** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8530 | NM_003650 | **CST7** | cystatin F | protein_coding | 225 | 230 | 226 | 231 | 1.024 |
| 8531 | NM_001145426,NM | **YBX3** | Y-box binding protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.092 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8532 | NM_001014447,NM | **CPZ** | carboxypeptidase Z | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8533 | NM_001199125,NM | **COPS3** | COP9 signalosome subu | protein_coding | 95 | 92 | 96 | 93 | 0.963 |
| 8534 | NM_003654,XM_00 | **CHST1** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8535 | NM_003655,XM_01 | **CBX4** | chromobox 4 | protein_coding | 22 | 26 | 23 | 27 | 1.136 |
| 8536 | NM_003656,XM_00 | **CAMK1** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8537 | NM_001316361,NM | **BCAS1** | brain enriched myelin as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8538 | NM_003658,XM_01 | **BARX2** | BARX homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8539 | NM_001142930,NM | **API5** | apoptosis inhibitor 5 | protein_coding | 182 | 161 | 183 | 162 | 0.886 |
| 8540 | NM_003659,XM_01 | **AGPS** | alkylglycerone phosphat | protein_coding | 78 | 67 | 79 | 68 | 0.866 |
| 8541 | NM_003660,NR_10 | **PPFIA3** | PTPRF interacting protei | protein_coding | 3 | 3 | 4 | 4 | 1.130 |
| 8542 | NM_001136540,NM | **APOL1** | apolipoprotein L1 | protein_coding | 21 | 20 | 22 | 21 | 0.982 |
| 8543 | NM_001369491,NM | **LMO4** | LIM domain only 4 | protein_coding | 56 | 58 | 57 | 59 | 1.037 |
| 8544 | NM_001018109,NM | **PIR** | pirin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8545 | NM_001008390,NM | **CGGBP1** | CGG triplet repeat bindir | protein_coding | 83 | 71 | 84 | 72 | 0.850 |
| 8546 | NM_001271769,NM | **AP3B1** | adaptor related protein c | protein_coding | 56 | 49 | 57 | 50 | 0.866 |
| 8547 | NM_003665,NM_17 | **FCN3** | ficolin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8548 | NM_001320972,NM | **BLZF1** | basic leucine zipper nucl | protein_coding | 19 | 16 | 20 | 17 | 0.811 |
| 8549 | NM_001277226,NM | **LGR5** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8550 | NM_001371479,NM | **MAPKAPK5** | MAPK activated protein k | protein_coding | 10 | 11 | 11 | 12 | 1.093 |
| 8551 | NR_002725 | **INE2** | inactivation escape 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 8552 | NR_024616 | **INE1** | inactivation escape 1 | lncRNA | 1 | 1 | 2 | 2 | 1.488 |
| 8553 | NM_003670,XM_02 | **BHLHE40** | basic helix-loop-helix fan | protein_coding | 180 | 173 | 181 | 174 | 0.957 |
| 8554 | NM_001320687,NM | **PIAS1** | protein inhibitor of activa | protein_coding | 24 | 22 | 25 | 23 | 0.929 |
| 8555 | NM_001077181,NM | **CDC14B** | cell division cycle 14B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8556 | NM_001319210,NM | **CDC14A** | cell division cycle 14A | protein_coding | 1 | 1 | 2 | 2 | 0.845 |
| 8557 | NM_003673 | **TCAP** | titin-cap | protein_coding | 2 | 0 | 3 | 1 | 0.517 |
| 8558 | NM_001098533,NM | **CDK10** | cyclin dependent kinase | protein_coding | 13 | 12 | 14 | 13 | 0.980 |
| 8559 | NM_003675,XM_01 | **PRPF18** | pre-mRNA processing fa | protein_coding | 12 | 10 | 13 | 11 | 0.873 |
| 8560 | NM_001321541,NM | **DEGS1** | delta 4-desaturase, sphii | protein_coding | 119 | 120 | 120 | 121 | 1.010 |
| 8562 | NM_003677 | **DENR** | density regulated re-initia | protein_coding | 100 | 87 | 101 | 88 | 0.867 |
| 8563 | NM_001002877,NM | **THOC5** | THO complex 5 | protein_coding | 33 | 38 | 34 | 39 | 1.159 |
| 8564 | NM_003679,XM_00 | **KMO** | kynurenine 3-monooxyge | protein_coding | 0 | 0 | 1 | 1 | 1.096 |
| 8565 | NM_003680,XM_01 | **YARS1** | tyrosyl-tRNA synthetase | protein_coding | 324 | 315 | 325 | 316 | 0.972 |
| 8566 | NM_001331030,NM | **PDXK** | pyridoxal kinase | protein_coding | 26 | 24 | 27 | 25 | 0.920 |
| 8567 | NM_001135943,NM | **MADD** | MAP kinase activating de | protein_coding | 31 | 29 | 32 | 30 | 0.916 |
| 8568 | NM_003683,XM_01 | **RRP1** | ribosomal RNA processir | protein_coding | 75 | 75 | 76 | 76 | 1.000 |
| 8569 | NM_001135553,NM | **MKNK1** | MAPK interacting serine/ | protein_coding | 32 | 29 | 33 | 30 | 0.929 |
| 8570 | NM_001366299,NM | **KHSRP** | KH-type splicing regulat | protein_coding | 363 | 366 | 364 | 367 | 1.007 |
| 8572 | NM_001131027,NM | **PDLIM4** | PDZ and LIM domain 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8573 | NM_001126054,NM | **CASK** | calcium/calmodulin depe | protein_coding | 3 | 2 | 4 | 3 | 0.902 |
| 8574 | NM_001320979,NM | **AKR7A2** | aldo-keto reductase fami | protein_coding | 24 | 23 | 25 | 24 | 0.946 |
| 8575 | NM_001139517,NM | **PRKRA** | protein activator of interf | protein_coding | 68 | 62 | 69 | 63 | 0.922 |
| 8576 | NM_001008910,NM | **STK16** | serine/threonine kinase 1 | protein_coding | 26 | 32 | 27 | 33 | 1.234 |
| 8577 | NM_003692 | **TMEFF1** | transmembrane protein v | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8578 | NM_003693,NM_14 | **SCARF1** | scavenger receptor class | protein_coding | 0 | 1 | 1 | 2 | 1.079 |
| 8581 | NM_003695 | **LY6D** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8587 | NR_045004 | **OR7E2P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 8590 | NM_003696 | **OR6A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8600 | NM_003701,NM_03 | **TNFSF11** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8601 | NM_001286673,NM | **RGS20** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8602 | NM_001291978,NM | **NOP14** | NOP14 nucleolar protein | protein_coding | 127 | 123 | 128 | 124 | 0.963 |
| 8603 | NM_001256666,NM | **FAM193A** | family with sequence sim | protein_coding | 16 | 14 | 17 | 15 | 0.887 |
| 8604 | NM_003705,NR_04 | **SLC25A12** | solute carrier family 25 m | protein_coding | 52 | 45 | 53 | 46 | 0.877 |
| 8605 | NM_001159322,NM | **PLA2G4C** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8607 | NM_001319084,NM | **RUVBL1** | RuvB like AAA ATPase 1 | protein_coding | 255 | 262 | 256 | 263 | 1.030 |
| 8608 | NM_001320108,NM | **RDH16** | retinol dehydrogenase 1( | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 8609 | NM_001270942,NM | **KLF7** | Kruppel like factor 7 | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 8611 | NM_003711,NM_17 | **PLPP1** | phospholipid phosphatas | protein_coding | 3 | 2 | 4 | 3 | 0.835 |
| 8612 | NM_003712,NM_17 | **PLPP2** | phospholipid phosphatas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8613 | NM_003713 | **PLPP3** | phospholipid phosphatas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8614 | NM_003714 | **STC2** | stanniocalcin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 8615 | NM_001290049,NM | **USO1** | USO1 vesicle transport fa | protein_coding | 52 | 48 | 53 | 49 | 0.921 |
| 8618 | NM_003716,NM_18 | **CADPS** | calcium dependent secre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8620 | NM_001320296,NM | **NPFF** | neuropeptide FF-amide p | protein_coding | 1 | 1 | 2 | 2 | 0.760 |
| 8621 | NM_003718,NM_03 | **CDK13** | cyclin dependent kinase | protein_coding | 11 | 10 | 12 | 11 | 0.921 |
| 8622 | NM_001029851,NM | **PDE8B** | phosphodiesterase 8B | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 8623 | NM_001173473,NM | **ASMTL** | acetylserotonin O-methy | protein_coding | 10 | 12 | 11 | 13 | 1.214 |
| 8624 | NM_001261824,NM | **PSMG1** | proteasome assembly ch | protein_coding | 113 | 113 | 114 | 114 | 1.000 |
| 8625 | NM_001278727,NM | **RFXANK** | regulatory factor X assoc | protein_coding | 73 | 78 | 74 | 79 | 1.059 |
| 8626 | NM_001114978,NM | **TP63** | tumor protein p63 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8629 | NM_001077527,NM | **JRK** | Jrk helix-turn-helix protei | protein_coding | 7 | 6 | 8 | 7 | 0.914 |
| 8630 | NM_003725,XM_00 | **HSD17B6** | hydroxysteroid 17-beta d | protein_coding | 2 | 3 | 3 | 4 | 1.235 |
| 8631 | NM_001075099,NM | **SKAP1** | src kinase associated ph | protein_coding | 86 | 80 | 87 | 81 | 0.932 |
| 8632 | NM_173628,XM_01 | **DNAH17** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8633 | NM_003728,XM_00 | **UNC5C** | unc-5 netrin receptor C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8634 | NM_001130841,NM | **RTCA** | RNA 3'-terminal phospha | protein_coding | 67 | 62 | 68 | 63 | 0.926 |
| 8635 | NM_003730,XM_01 | **RNASET2** | ribonuclease T2 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 8636 | NM_003731 | **SSNA1** | SS nuclear autoantigen 1 | protein_coding | 103 | 112 | 104 | 113 | 1.087 |
| 8637 | NM_003732 | **EIF4EBP3** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 0.915 |
| 8638 | NM_001261825,NM | **OASL** | 2'-5'-oligoadenylate synth | protein_coding | 115 | 100 | 116 | 101 | 0.866 |
| 8639 | NM_001277731,NM | **AOC3** | amine oxidase copper co | protein_coding | 1 | 1 | 2 | 2 | 0.946 |
| 8641 | NM_003736,NM_03 | **PCDHGB4** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 8642 | NM_003737 | **DCHS1** | dachsous cadherin-relate | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 8643 | NM_001166292,NM | **PTCH2** | patched 2 | protein_coding | 1 | 1 | 2 | 2 | 0.907 |
| 8644 | NM_001253908,NM | **AKR1C3** | aldo-keto reductase fami | protein_coding | 2 | 1 | 3 | 2 | 0.758 |
| 8645 | NM_003740,XM_00 | **KCNK5** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.075 |
| 8646 | NM_001304472,NM | **CHRD** | chordin | protein_coding | 2 | 2 | 3 | 3 | 1.211 |
| 8647 | NM_003742,XM_00 | **ABCB11** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8648 | NM_001362950,NM | **NCOA1** | nuclear receptor coactiva | protein_coding | 21 | 19 | 22 | 20 | 0.920 |
| 8649 | NM_001243736,NM | **LAMTOR3** | late endosomal/lysosoma | protein_coding | 19 | 20 | 20 | 21 | 1.066 |
| 8650 | NM_001005743,NM | **NUMB** | NUMB endocytic adaptor | protein_coding | 25 | 23 | 26 | 24 | 0.923 |
| 8651 | NM_003745 | **SOCS1** | suppressor of cytokine si | protein_coding | 3 | 5 | 4 | 6 | 1.428 |
| 8653 | NM_001122665,NM | **DDX3Y** | DEAD-box helicase 3 Y-l | protein_coding | 107 | 88 | 108 | 89 | 0.825 |
| 8654 | NM_001083,NM_03 | **PDE5A** | phosphodiesterase 5A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8655 | NM_001037494,NM | **DYNLL1** | dynein light chain LC8-ty | protein_coding | 482 | 544 | 483 | 545 | 1.129 |
| 8658 | NM_003747,XM_00 | **TNKS** | tankyrase | protein_coding | 5 | 4 | 6 | 5 | 0.971 |
| 8659 | NM_001161504,NM | **ALDH4A1** | aldehyde dehydrogenas | protein_coding | 4 | 5 | 5 | 6 | 1.020 |
| 8660 | NM_003749 | **IRS2** | insulin receptor substrate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8661 | NM_003750 | **EIF3A** | eukaryotic translation init | protein_coding | 286 | 255 | 287 | 256 | 0.890 |
| 8662 | NM_001037283,NM | **EIF3B** | eukaryotic translation init | protein_coding | 224 | 225 | 225 | 226 | 1.001 |
| 8663 | NM_001037808,NM | **EIF3C** | eukaryotic translation init | protein_coding | 459 | 459 | 460 | 460 | 1.002 |
| 8664 | NM_003753,NR_15 | **EIF3D** | eukaryotic translation init | protein_coding | 291 | 266 | 292 | 267 | 0.915 |
| 8665 | NM_003754 | **EIF3F** | eukaryotic translation init | protein_coding | 52 | 57 | 53 | 58 | 1.102 |
| 8666 | NM_003755 | **EIF3G** | eukaryotic translation init | protein_coding | 383 | 394 | 384 | 395 | 1.028 |
| 8667 | NM_003756 | **EIF3H** | eukaryotic translation init | protein_coding | 150 | 154 | 151 | 155 | 1.024 |
| 8668 | NM_003757,XM_02 | **EIF3I** | eukaryotic translation init | protein_coding | 406 | 415 | 407 | 416 | 1.022 |
| 8669 | NM_001284335,NM | **EIF3J** | eukaryotic translation init | protein_coding | 309 | 281 | 310 | 282 | 0.910 |
| 8671 | NM_001098484,NM | **SLC4A4** | solute carrier family 4 me | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 8672 | NM_001198801,NM | **EIF4G3** | eukaryotic translation init | protein_coding | 38 | 30 | 39 | 31 | 0.799 |
| 8673 | NM_003761,XM_01 | **VAMP8** | vesicle associated memb | protein_coding | 108 | 110 | 109 | 111 | 1.017 |
| 8674 | NM_001185127,NM | **VAMP4** | vesicle associated memb | protein_coding | 8 | 8 | 9 | 9 | 0.997 |
| 8675 | NM_001001433,NM | **STX16** | syntaxin 16 | protein_coding | 71 | 63 | 72 | 64 | 0.890 |
| 8676 | NM_003764,XM_01 | **STX11** | syntaxin 11 | protein_coding | 39 | 40 | 40 | 41 | 1.031 |
| 8677 | NM_001271609,NM | **STX10** | syntaxin 10 | protein_coding | 75 | 78 | 76 | 79 | 1.046 |
| 8678 | NM_001313998,NM | **BECN1** | beclin 1 | protein_coding | 137 | 133 | 138 | 134 | 0.974 |
| 8681 | NM_001198588,NM | **JMJD7-PLA2G4B** | JMJD7-PLA2G4B readth | protein_coding | 0 | 3 | 1 | 4 | 3.600 |
| 8682 | NM_001297576,NM | **PEA15** | proliferation and apoptos | protein_coding | 93 | 82 | 94 | 83 | 0.879 |
| 8683 | NM_003769 | **SRSF9** | serine and arginine rich s | protein_coding | 244 | 250 | 245 | 251 | 1.027 |
| 8685 | NM_006770,XM_01 | **MARCO** | macrophage receptor wit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8686 | gene-KRT41P | **KRT41P** | keratin 41 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8687 | NM_006771 | **KRT38** | keratin 38 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8688 | NM_003770 | **KRT37** | keratin 37 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8689 | NM_003771 | **KRT36** | keratin 36 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8690 | NM_001261833,NM | **JRKL** | JRK like | protein_coding | 14 | 13 | 15 | 14 | 0.927 |
| 8692 | NM_003773,NM_03 | **HYAL2** | hyaluronidase 2 | protein_coding | 16 | 15 | 17 | 16 | 0.905 |
| 8693 | NM_003774 | **GALNT4** | polypeptide N-acetylgala | protein_coding | 5 | 3 | 6 | 4 | 0.717 |

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|---|---|---|---|---|---|---|---|---|
| 8694 | NM_012079,XM_01 | **DGAT1** | diacylglycerol O-acyltran | protein_coding | 3 | 4 | 4 | 5 | 1.056 |
| 8697 | NM_004661 | **CDC23** | cell division cycle 23 | protein_coding | 85 | 83 | 86 | 84 | 0.981 |
| 8698 | NM_003775 | **S1PR4** | sphingosine-1-phosphat | protein_coding | 42 | 49 | 43 | 50 | 1.151 |
| 8701 | NM_001277115 | **DNAH11** | dynein axonemal heavy | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 8702 | NM_003778,NM_21 | **B4GALT4** | beta-1,4-galactosyltransf | protein_coding | 16 | 18 | 17 | 19 | 1.125 |
| 8703 | NM_001199873,NM | **B4GALT3** | beta-1,4-galactosyltransf | protein_coding | 68 | 65 | 69 | 66 | 0.962 |
| 8704 | NM_001005417,NM | **B4GALT2** | beta-1,4-galactosyltransf | protein_coding | 43 | 45 | 44 | 46 | 1.052 |
| 8705 | NM_003782 | **B3GALT4** | beta-1,3-galactosyltransf | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 8706 | NM_001038628,NM | **B3GALNT1** | beta-1,3-N-acetylgalacto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8707 | NM_003783 | **B3GALT2** | beta-1,3-galactosyltransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8708 | NM_020981,XM_00 | **B3GALT1** | beta-1,3-galactosyltransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8710 | NM_001040147,NM | **SERPINB7** | serpin family B member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8711 | NM_001251902,NM | **TNK1** | tyrosine kinase non rece | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8712 | NM_003785,XM_01 | **PAGE1** | PAGE family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8714 | NM_001144070,NM | **ABCC3** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8715 | NM_001198546,NM | **NOL4** | nucleolar protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8717 | NM_001323552,NM | **TRADD** | TNFRSF1A associated vi | protein_coding | 9 | 10 | 10 | 11 | 1.043 |
| 8718 | NM_001039664,NM | **TNFRSF25** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8720 | NM_003791,XM_01 | **MBTPS1** | membrane bound transc | protein_coding | 51 | 51 | 52 | 52 | 1.004 |
| 8721 | NM_001281297,NM | **EDF1** | endothelial differentiatior | protein_coding | 420 | 458 | 421 | 459 | 1.089 |
| 8722 | NM_003793,XM_01 | **CTSF** | cathepsin F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8723 | NM_003794,NR_07 | **SNX4** | sorting nexin 4 | protein_coding | 65 | 57 | 66 | 58 | 0.888 |
| 8724 | NM_001300928,NM | **SNX3** | sorting nexin 3 | protein_coding | 141 | 131 | 142 | 132 | 0.927 |
| 8725 | NM_001252641,NM | **URI1** | URI1 prefoldin like chape | protein_coding | 57 | 53 | 58 | 54 | 0.927 |
| 8726 | NM_001308007,NM | **EED** | embryonic ectoderm dev | protein_coding | 63 | 72 | 64 | 73 | 1.145 |
| 8727 | NM_001286974,NM | **CTNNAL1** | catenin alpha like 1 | protein_coding | 27 | 22 | 28 | 23 | 0.808 |
| 8728 | NM_033274,XM_01 | **ADAM19** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8729 | NM_001199378,NM | **GBF1** | golgi brefeldin A resistan | protein_coding | 41 | 38 | 42 | 39 | 0.943 |
| 8731 | NM_001308263,NM | **RNMT** | RNA guanine-7 methyltra | protein_coding | 21 | 20 | 22 | 21 | 0.941 |
| 8732 | NM_001286426,NM | **RNGTT** | RNA guanylyltransferase | protein_coding | 27 | 23 | 28 | 24 | 0.871 |
| 8733 | NM_003801 | **GPAA1** | glycosylphosphatidylinos | protein_coding | 34 | 34 | 35 | 35 | 1.017 |
| 8735 | NM_003802 | **MYH13** | myosin heavy chain 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8736 | NM_003803,NM_01 | **MYOM1** | myomesin 1 | protein_coding | 1 | 1 | 2 | 2 | 0.965 |
| 8737 | NM_001317061,NM | **RIPK1** | receptor interacting serin | protein_coding | 21 | 22 | 22 | 23 | 1.027 |
| 8738 | NM_001320099,NM | **CRADD** | CASP2 and RIPK1 doma | protein_coding | 10 | 10 | 11 | 11 | 0.998 |
| 8739 | NM_003806,NR_07 | **HRK** | harakiri, BCL2 interactinç | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8740 | NM_001376887,NM | **TNFSF14** | TNF superfamily membe | protein_coding | 71 | 60 | 72 | 61 | 0.840 |
| 8741 | NM_001198622,NM | **TNFSF13** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8742 | NM_003809,NR_03 | **TNFSF12** | TNF superfamily membe | protein_coding | 7 | 6 | 8 | 7 | 0.836 |
| 8743 | NM_001190942,NM | **TNFSF10** | TNF superfamily membe | protein_coding | 39 | 34 | 40 | 35 | 0.890 |
| 8744 | NM_003811 | **TNFSF9** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8745 | NM_003812,XM_00 | **ADAM23** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8747 | NM_003813 | **ADAM21** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 8748 | NM_003814,XM_00 | **ADAM20** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 8749 | NM_001190956,NM | **ADAM18** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8751 | NM_001261464,NM | **ADAM15** | ADAM metallopeptidase | protein_coding | 6 | 7 | 7 | 8 | 1.082 |
| 8754 | NM_003816,NR_02 | **ADAM9** | ADAM metallopeptidase | protein_coding | 12 | 11 | 13 | 12 | 0.890 |
| 8755 | NR_002224 | **ADAM6** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 8756 | NM_003817,XM_01 | **ADAM7** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8760 | NM_003818,XM_00 | **CDS2** | CDP-diacylglycerol synth | protein_coding | 16 | 14 | 17 | 15 | 0.909 |
| 8761 | NM_001135653,NM | **PABPC4** | poly(A) binding protein c | protein_coding | 117 | 108 | 118 | 109 | 0.921 |
| 8763 | NM_001142401,NM | **CD164** | CD164 molecule | protein_coding | 226 | 204 | 227 | 205 | 0.906 |
| 8764 | NM_001297605,NM | **TNFRSF14** | TNF receptor superfamily | protein_coding | 11 | 14 | 12 | 15 | 1.212 |
| 8766 | NM_001206836,NM | **RAB11A** | RAB11A, member RAS o | protein_coding | 58 | 55 | 59 | 56 | 0.946 |
| 8767 | NM_001375360,NM | **RIPK2** | receptor interacting serin | protein_coding | 27 | 24 | 28 | 25 | 0.882 |
| 8771 | NM_003823 | **TNFRSF6B** | TNF receptor superfamily | protein_coding | 1 | 0 | 2 | 1 | 0.731 |
| 8772 | NM_003824 | **FADD** | Fas associated via death | protein_coding | 61 | 62 | 62 | 63 | 1.017 |
| 8773 | NM_003825,NM_13 | **SNAP23** | synaptosome associated | protein_coding | 105 | 95 | 106 | 96 | 0.912 |
| 8774 | NM_003826,XM_01 | **NAPG** | NSF attachment protein | protein_coding | 19 | 17 | 20 | 18 | 0.934 |
| 8775 | NM_003827,NR_03 | **NAPA** | NSF attachment protein | protein_coding | 132 | 151 | 133 | 152 | 1.137 |
| 8776 | NM_001306144,NM | **MTMR1** | myotubularin related pro | protein_coding | 52 | 53 | 53 | 54 | 1.023 |
| 8777 | NM_001261406,NM | **MPDZ** | multiple PDZ domain cru | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8778 | NM_003830,XM_01 | **SIGLEC5** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.073 |
| 8780 | NM_001348193,NM | **RIOK3** | RIO kinase 3 | protein_coding | 60 | 57 | 61 | 58 | 0.955 |
| 8781 | gene-PSPHP1 | **PSPHP1** | phosphoserine phosphat | pseudogene | 0 | 0 | 1 | 1 | 1.385 |
| 8784 | NM_004195,NM_14 | **TNFRSF18** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8785 | NM_003833,NM_03 | **MATN4** | matrilin 4 | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 8786 | NM_001286485,NM | **RGS11** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8787 | NM_001081955,NM | **RGS9** | regulator of G protein sig | protein_coding | 4 | 3 | 5 | 4 | 0.920 |
| 8788 | NM_001317172,NM | **DLK1** | delta like non-canonical | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8789 | NM_003837 | **FBP2** | fructose-bisphosphatase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8790 | NM_001199328,NM | **FPGT** | fucose-1-phosphate gua | protein_coding | 8 | 7 | 9 | 8 | 0.932 |
| 8792 | NM_001270949,NM | **TNFRSF11A** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8793 | NM_003840 | **TNFRSF10D** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8794 | NM_003841 | **TNFRSF10C** | TNF receptor superfamily | protein_coding | 1 | 0 | 2 | 1 | 0.827 |
| 8795 | NM_003842,NM_14 | **TNFRSF10B** | TNF receptor superfamily | protein_coding | 20 | 15 | 21 | 16 | 0.784 |
| 8796 | NM_001160706,NM | **SCEL** | sciellin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8797 | NM_003844 | **TNFRSF10A** | TNF receptor superfamily | protein_coding | 2 | 1 | 3 | 2 | 0.789 |
| 8798 | NM_001282285,NM | **DYRK4** | dual specificity tyrosine p | protein_coding | 21 | 23 | 22 | 24 | 1.106 |
| 8799 | NM_001184795,NM | **PEX11B** | peroxisomal biogenesis f | protein_coding | 41 | 41 | 42 | 42 | 1.010 |
| 8800 | NM_001271572,NM | **PEX11A** | peroxisomal biogenesis f | protein_coding | 1 | 1 | 2 | 2 | 1.004 |
| 8801 | NM_001177599,NM | **SUCLG2** | succinate-CoA ligase GD | protein_coding | 41 | 41 | 42 | 42 | 0.988 |
| 8802 | NM_003849 | **SUCLG1** | succinate-CoA ligase GD | protein_coding | 208 | 198 | 209 | 199 | 0.951 |
| 8803 | NM_003850 | **SUCLA2** | succinate-CoA ligase AD | protein_coding | 81 | 76 | 82 | 77 | 0.941 |
| 8804 | NM_003851 | **CREG1** | cellular repressor of E1A | protein_coding | 33 | 33 | 34 | 34 | 1.004 |
| 8805 | NM_003852,NM_01 | **TRIM24** | tripartite motif containing | protein_coding | 16 | 16 | 17 | 17 | 1.005 |
| 8807 | NM_003853,XM_01 | **IL18RAP** | interleukin 18 receptor ac | protein_coding | 1 | 2 | 2 | 3 | 1.131 |
| 8808 | NM_001351446,NM | **IL1RL2** | interleukin 1 receptor like | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 8809 | NM_001282399,NM | **IL18R1** | interleukin 18 receptor 1 | protein_coding | 8 | 7 | 9 | 8 | 0.895 |
| 8811 | NM_003857,XM_01 | **GALR2** | galanin receptor 2 | protein_coding | 1 | 2 | 2 | 3 | 1.020 |
| 8812 | NM_001099402,XM | **CCNK** | cyclin K | protein_coding | 71 | 69 | 72 | 70 | 0.969 |
| 8813 | NM_001317034,NM | **DPM1** | dolichyl-phosphate mant | protein_coding | 258 | 246 | 259 | 247 | 0.954 |
| 8814 | NM_001282236,NM | **CDKL1** | cyclin dependent kinase | protein_coding | 2 | 1 | 3 | 2 | 0.676 |
| 8815 | NM_001143985,NM | **BANF1** | BAF nuclear assembly fa | protein_coding | 428 | 451 | 429 | 452 | 1.053 |
| 8816 | NM_001284206,NM | **DCAF5** | DDB1 and CUL4 associa | protein_coding | 23 | 23 | 24 | 24 | 0.998 |
| 8817 | NM_003862 | **FGF18** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.062 |
| 8818 | NM_001378436,NM | **DPM2** | dolichyl-phosphate mant | protein_coding | 90 | 93 | 91 | 94 | 1.024 |
| 8819 | NM_003864 | **SAP30** | Sin3A associated protein | protein_coding | 39 | 42 | 40 | 43 | 1.058 |
| 8820 | NM_001376058,NM | **HESX1** | HESX homeobox 1 | protein_coding | 1 | 2 | 2 | 3 | 1.355 |
| 8821 | NM_001101669,NM | **INPP4B** | inositol polyphosphate-4 | protein_coding | 4 | 3 | 5 | 4 | 0.749 |
| 8822 | NM_001304478,NM | **FGF17** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 8823 | NM_003868 | **FGF16** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8824 | NM_001365405,NM | **CES2** | carboxylesterase 2 | protein_coding | 22 | 22 | 23 | 23 | 0.982 |
| 8825 | NM_001324423,NM | **LIN7A** | lin-7 homolog A, crumbs | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8826 | NM_003870,XR_00 | **IQGAP1** | IQ motif containing GTPa | protein_coding | 192 | 166 | 193 | 167 | 0.869 |
| 8828 | NM_003872,NM_01 | **NRP2** | neuropilin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 8829 | NM_001024628,NM | **NRP1** | neuropilin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8831 | NM_001130066,NM | **SYNGAP1** | synaptic Ras GTPase ac | protein_coding | 3 | 3 | 4 | 4 | 1.002 |
| 8832 | NM_001184879,NM | **CD84** | CD84 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 8833 | NM_003875,XM_01 | **GMPS** | guanine monophosphate | protein_coding | 47 | 38 | 48 | 39 | 0.821 |
| 8834 | NM_003876,NR_02 | **TMEM11** | transmembrane protein 1 | protein_coding | 76 | 79 | 77 | 80 | 1.039 |
| 8835 | NM_001270467,NM | **SOCS2** | suppressor of cytokine si | protein_coding | 67 | 65 | 68 | 66 | 0.975 |
| 8836 | NM_003878,XM_01 | **GGH** | gamma-glutamyl hydrola | protein_coding | 90 | 88 | 91 | 89 | 0.981 |
| 8837 | NM_001127183,NM | **CFLAR** | CASP8 and FADD like ap | protein_coding | 65 | 57 | 66 | 58 | 0.880 |
| 8838 | NM_003880,NM_19 | **CCN6** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 8839 | NM_001323369,NM | **CCN5** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8840 | NM_001204869,NM | **CCN4** | cellular communication n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8841 | NM_001355039,NM | **HDAC3** | histone deacetylase 3 | protein_coding | 125 | 124 | 126 | 125 | 0.994 |
| 8842 | NM_001145847,NM | **PROM1** | prominin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 8843 | NM_006018 | **HCAR3** | hydroxycarboxylic acid re | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 8844 | NM_001367810,NM | **KSR1** | kinase suppressor of ras | protein_coding | 76 | 77 | 77 | 78 | 1.012 |
| 8846 | NM_006020,XR_00 | **ALKBH1** | alkB homolog 1, histone | protein_coding | 20 | 20 | 21 | 21 | 0.985 |
| 8847 | NR_152566,NR_15 | **DLEU2** | deleted in lymphocytic le | lncRNA | 109 | 103 | 110 | 104 | 0.946 |
| 8848 | NM_001243797,NM | **TSC22D1** | TSC22 domain family me | protein_coding | 11 | 11 | 12 | 12 | 0.974 |
| 8850 | NM_003884,XM_00 | **KAT2B** | lysine acetyltransferase 2 | protein_coding | 50 | 46 | 51 | 47 | 0.937 |
| 8851 | NM_003885,XM_01 | **CDK5R1** | cyclin dependent kinase | protein_coding | 4 | 4 | 5 | 5 | 0.977 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8852 | NM_003886,NM_13 | **AKAP4** | A-kinase anchoring prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8853 | NM_001135191,NM | **ASAP2** | ArfGAP with SH3 domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8854 | NM_001206897,NM | **ALDH1A2** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8856 | NM_003889,NM_02 | **NR1I2** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8857 | NM_003890 | **FCGBP** | Fc fragment of IgG bindi | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 8858 | NM_001256134,NM | **PROZ** | protein Z, vitamin K depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8859 | NM_004197,NM_03 | **STK19** | serine/threonine kinase 1 | protein_coding | 10 | 9 | 11 | 10 | 0.953 |
| 8861 | NM_001113407,NM | **LDB1** | LIM domain binding 1 | protein_coding | 32 | 35 | 33 | 36 | 1.098 |
| 8862 | NM_017413 | **APLN** | apelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8863 | NM_001289861,NM | **PER3** | period circadian regulato | protein_coding | 0 | 0 | 1 | 1 | 0.913 |
| 8864 | NM_022817,XM_00 | **PER2** | period circadian regulato | protein_coding | 41 | 35 | 42 | 36 | 0.866 |
| 8867 | NM_001160302,NM | **SYNJ1** | synaptojanin 1 | protein_coding | 7 | 6 | 8 | 7 | 0.905 |
| 8869 | NM_001042437,NM | **ST3GAL5** | ST3 beta-galactoside alp | protein_coding | 33 | 33 | 34 | 34 | 0.993 |
| 8870 | NM_003897 | **IER3** | immediate early respons | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8871 | NM_001178088,NM | **SYNJ2** | synaptojanin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 8872 | NM_006023,XM_00 | **CDC123** | cell division cycle 123 | protein_coding | 92 | 94 | 93 | 95 | 1.029 |
| 8874 | NM_001113511,NM | **ARHGEF7** | Rho guanine nucleotide | protein_coding | 40 | 34 | 41 | 35 | 0.859 |
| 8875 | NM_001242350,NM | **VNN2** | vanin 2 | protein_coding | 1 | 0 | 2 | 1 | 0.883 |
| 8876 | NM_004666 | **VNN1** | vanin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8877 | NM_001142601,NM | **SPHK1** | sphingosine kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8878 | NM_001142298,NM | **SQSTM1** | sequestosome 1 | protein_coding | 30 | 36 | 31 | 37 | 1.182 |
| 8879 | NM_003901,XM_00 | **SGPL1** | sphingosine-1-phosphat | protein_coding | 22 | 21 | 23 | 22 | 0.948 |
| 8880 | NM_001303433,NM | **FUBP1** | far upstream element bir | protein_coding | 120 | 101 | 121 | 102 | 0.842 |
| 8881 | NM_001078645,NM | **CDC16** | cell division cycle 16 | protein_coding | 71 | 72 | 72 | 73 | 1.006 |
| 8882 | NM_001317086,NM | **ZPR1** | ZPR1 zinc finger | protein_coding | 50 | 51 | 51 | 52 | 1.032 |
| 8883 | NM_001018159,NM | **NAE1** | NEDD8 activating enzym | protein_coding | 131 | 110 | 132 | 111 | 0.843 |
| 8884 | NM_021095,NR_02 | **SLC5A6** | solute carrier family 5 me | protein_coding | 63 | 68 | 64 | 69 | 1.067 |
| 8886 | NM_006773 | **DDX18** | DEAD-box helicase 18 | protein_coding | 156 | 150 | 157 | 151 | 0.958 |
| 8887 | NM_001079864,NM | **TAX1BP1** | Tax1 binding protein 1 | protein_coding | 31 | 29 | 32 | 30 | 0.949 |
| 8888 | NM_003906,XM_00 | **MCM3AP** | minichromosome mainte | protein_coding | 56 | 51 | 57 | 52 | 0.925 |
| 8890 | NM_001034116,NM | **EIF2B4** | eukaryotic translation init | protein_coding | 41 | 49 | 42 | 50 | 1.179 |
| 8891 | NM_001166588,NM | **EIF2B3** | eukaryotic translation init | protein_coding | 73 | 67 | 74 | 68 | 0.921 |
| 8892 | NM_014239 | **EIF2B2** | eukaryotic translation init | protein_coding | 25 | 25 | 26 | 26 | 0.986 |
| 8893 | NM_003907,XM_01 | **EIF2B5** | eukaryotic translation init | protein_coding | 104 | 84 | 105 | 85 | 0.812 |
| 8894 | NM_001316363,NM | **EIF2S2** | eukaryotic translation init | protein_coding | 377 | 344 | 378 | 345 | 0.911 |
| 8895 | NM_003909,XM_00 | **CPNE3** | copine 3 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 8896 | NM_001370407,NM | **BUD31** | BUD31 homolog | protein_coding | 196 | 195 | 197 | 196 | 0.992 |
| 8897 | NM_021090,NM_15 | **MTMR3** | myotubularin related pro | protein_coding | 7 | 7 | 8 | 8 | 0.922 |
| 8898 | NM_001243571,NM | **MTMR2** | myotubularin related pro | protein_coding | 44 | 39 | 45 | 40 | 0.892 |
| 8899 | NM_003913,NR_14 | **PRPF4B** | pre-mRNA processing fa | protein_coding | 59 | 53 | 60 | 54 | 0.896 |
| 8900 | NM_001111045,NM | **CCNA1** | cyclin A1 | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 8904 | NM_001198863,NM | **CPNE1** | copine 1 | protein_coding | 255 | 255 | 256 | 256 | 1.001 |
| 8905 | NM_001272071,NM | **AP1S2** | adaptor related protein c | protein_coding | 21 | 19 | 22 | 20 | 0.898 |
| 8906 | NM_001282474,NM | **AP1G2** | adaptor related protein c | protein_coding | 34 | 36 | 35 | 37 | 1.056 |
| 8907 | NM_001130524,NM | **AP1M1** | adaptor related protein c | protein_coding | 17 | 18 | 18 | 19 | 1.062 |
| 8908 | NM_001079855,NM | **GYG2** | glycogenin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8909 | NM_001172439,NM | **ENDOU** | endonuclease, poly(U) s | protein_coding | 0 | 0 | 1 | 1 | 1.083 |
| 8910 | NM_001099400,NM | **SGCE** | sarcoglycan epsilon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8911 | NM_001003406,NM | **CACNA1I** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8912 | NM_001005407,NM | **CACNA1H** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8913 | NM_001256324,NM | **CACNA1G** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 8914 | NM_001330295,NM | **TIMELESS** | timeless circadian regula | protein_coding | 56 | 54 | 57 | 55 | 0.966 |
| 8915 | NM_001320715,NM | **BCL10** | BCL10 immune signaling | protein_coding | 23 | 23 | 24 | 24 | 0.986 |
| 8916 | NM_001271602,NM | **HERC3** | HECT and RLD domain c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8917 | gene-HERC2P1 | **HERC2P1** | hect domain and RLD 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8918 | gene-HERC2P6 | **HERC2P6** | hect domain and RLD 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 8924 | NM_004667,XM_00 | **HERC2** | HECT and RLD domain c | protein_coding | 16 | 13 | 17 | 14 | 0.833 |
| 8925 | NM_003922,XM_01 | **HERC1** | HECT and RLD domain c | protein_coding | 32 | 23 | 33 | 24 | 0.734 |
| 8926 | NM_005678,NM_02 | **SNURF** | SNRPN upstream readin | protein_coding | 5 | 3 | 6 | 4 | 0.627 |
| 8927 | NM_003458 | **BSN** | bassoon presynaptic cyt | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 8928 | NM_003923 | **FOXH1** | forkhead box H1 | protein_coding | 0 | 0 | 1 | 1 | 0.875 |
| 8929 | NM_003924 | **PHOX2B** | paired like homeobox 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8930 | NM_001276270,NM | **MBD4** | methyl-CpG binding dor | protein_coding | 70 | 71 | 71 | 72 | 1.006 |
| 8932 | NM_003927,NM_01 | **MBD2** | methyl-CpG binding dor | protein_coding | 47 | 46 | 48 | 47 | 0.967 |
| 8933 | NM_001078171 | **RTL8C** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8934 | NM_001135662,NM | **RAB29** | RAB29, member RAS on | protein_coding | 63 | 62 | 64 | 63 | 0.979 |
| 8935 | NM_001303468,NM | **SKAP2** | src kinase associated ph | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 8936 | NM_001024934,NM | **WASF1** | WASP family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8938 | NM_001199096,NM | **BAIAP3** | BAI1 associated protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8939 | NM_003934,XM_00 | **FUBP3** | far upstream element bir | protein_coding | 60 | 52 | 61 | 53 | 0.860 |
| 8940 | NM_001282112,NM | **TOP3B** | DNA topoisomerase III be | protein_coding | 13 | 13 | 14 | 14 | 0.993 |
| 8941 | NM_003936 | **CDK5R2** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8942 | NM_001032998,NM | **KYNU** | kynureninase | protein_coding | 0 | 0 | 1 | 1 | 0.814 |
| 8943 | NM_001261826,NM | **AP3D1** | adaptor related protein c | protein_coding | 106 | 107 | 107 | 108 | 1.013 |
| 8944 | NR_000007 | **SNORD73A** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.997 |
| 8945 | NM_001256856,NM | **BTRC** | beta-transducin repeat c | protein_coding | 9 | 8 | 10 | 9 | 0.886 |
| 8968 | NM_021018 | **H3C7** | H3 clustered histone 7 | protein_coding | 3 | 3 | 4 | 4 | 1.067 |
| 8969 | NM_021064 | **H2AC11** | H2A clustered histone 11 | protein_coding | 7 | 4 | 8 | 5 | 0.644 |
| 8970 | NM_021058 | **H2BC11** | H2B clustered histone 11 | protein_coding | 27 | 26 | 28 | 27 | 0.974 |
| 8971 | NM_006026 | **H1-10** | H1.10 linker histone | protein_coding | 6 | 6 | 7 | 7 | 1.034 |
| 8972 | NM_001365693,NM | **MGAM** | maltase-glucoamylase | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 8973 | NM_001199279,NM | **CHRNA6** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 0.835 |
| 8974 | NM_001017974,NM | **P4HA2** | prolyl 4-hydroxylase sub | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 8975 | NM_003940,XM_01 | **USP13** | ubiquitin specific peptida | protein_coding | 10 | 9 | 11 | 10 | 0.975 |
| 8976 | NM_003941 | **WASL** | WASP like actin nucleati | protein_coding | 3 | 2 | 4 | 3 | 0.867 |
| 8985 | NM_001084 | **PLOD3** | procollagen-lysine,2-oxo | protein_coding | 8 | 9 | 9 | 10 | 1.129 |
| 8986 | NM_001006944,NM | **RPS6KA4** | ribosomal protein S6 kin | protein_coding | 45 | 50 | 46 | 51 | 1.110 |
| 8987 | NM_003943 | **STBD1** | starch binding domain 1 | protein_coding | 6 | 8 | 7 | 9 | 1.313 |
| 8988 | NM_006308 | **HSPB3** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8989 | NM_007332,XM_01 | **TRPA1** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8991 | NM_001258288,NM | **SELENBP1** | selenium binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8992 | NM_003945 | **ATP6V0E1** | ATPase H+ transporting | protein_coding | 99 | 105 | 100 | 106 | 1.064 |
| 8993 | NM_005091 | **PGLYRP1** | peptidoglycan recognitio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8994 | NM_014240,XM_01 | **LIMD1** | LIM domains containing | protein_coding | 23 | 22 | 24 | 23 | 0.939 |
| 8995 | NM_005092 | **TNFSF18** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 8996 | NM_001185057,NM | **NOL3** | nucleolar protein 3 | protein_coding | 1 | 2 | 2 | 3 | 1.835 |
| 8997 | NM_001024660,NM | **KALRN** | kalirin RhoGEF kinase | protein_coding | 1 | 1 | 2 | 2 | 0.983 |
| 8999 | NM_001330724,NM | **CDKL2** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 9001 | NM_001079870,NM | **HAP1** | huntingtin associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9002 | NM_003950,XM_00 | **F2RL3** | F2R like thrombin or tryp | protein_coding | 0 | 0 | 1 | 1 | 0.946 |
| 9013 | NM_001243156,NM | **TAF1C** | TATA-box binding protein | protein_coding | 13 | 15 | 14 | 16 | 1.126 |
| 9014 | NM_001318976,NM | **TAF1B** | TATA-box binding protein | protein_coding | 18 | 14 | 19 | 15 | 0.765 |
| 9015 | NM_001201536,NM | **TAF1A** | TATA-box binding protein | protein_coding | 25 | 25 | 26 | 26 | 1.027 |
| 9016 | NM_001282195,NM | **SLC25A14** | solute carrier family 25 m | protein_coding | 17 | 18 | 18 | 19 | 1.102 |
| 9019 | NM_001146191,NM | **MPZL1** | myelin protein zero like 1 | protein_coding | 4 | 3 | 5 | 4 | 0.891 |
| 9020 | NM_003954,XM_01 | **MAP3K14** | mitogen-activated protein | protein_coding | 9 | 9 | 10 | 10 | 0.938 |
| 9021 | NM_001378932,NM | **SOCS3** | suppressor of cytokine si | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 9022 | NM_004669,XM_01 | **CLIC3** | chloride intracellular cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9023 | NM_003956 | **CH25H** | cholesterol 25-hydroxyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9024 | NM_001256627,NM | **BRSK2** | BR serine/threonine kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9025 | NM_003958,NM_18 | **RNF8** | ring finger protein 8 | protein_coding | 15 | 15 | 16 | 16 | 0.983 |
| 9026 | NM_001303097,NM | **HIP1R** | huntingtin interacting pro | protein_coding | 8 | 7 | 9 | 8 | 0.877 |
| 9027 | NM_003960 | **NAT8** | N-acetyltransferase 8 (pu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9028 | NM_001278720,NM | **RHBDL1** | rhomboid like 1 | protein_coding | 1 | 1 | 2 | 2 | 1.179 |
| 9031 | NM_001370402,NM | **BAZ1B** | bromodomain adjacent to | protein_coding | 143 | 121 | 144 | 122 | 0.844 |
| 9032 | NM_003963 | **TM4SF5** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9033 | NM_001253837,NM | **PKD2L1** | polycystin 2 like 1, transi | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 9034 | NM_001130910,NM | **CCRL2** | C-C motif chemokine rec | protein_coding | 4 | 4 | 5 | 5 | 0.958 |
| 9037 | NM_003966,XM_00 | **SEMA5A** | semaphorin 5A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9038 | NM_003967 | **TAAR5** | trace amine associated re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9039 | NM_001363861,NM | **UBA3** | ubiquitin like modifier act | protein_coding | 86 | 78 | 87 | 79 | 0.915 |
| 9040 | NM_003969 | **UBE2M** | ubiquitin conjugating en | protein_coding | 161 | 162 | 162 | 163 | 1.005 |
| 9043 | NM_001130527,NM | **SPAG9** | sperm associated antige | protein_coding | 28 | 24 | 29 | 25 | 0.852 |
| 9044 | NM_003972,NR_16 | **BTAF1** | B-TFIID TATA-box bindin | protein_coding | 25 | 22 | 26 | 23 | 0.888 |
| 9045 | NM_001034996,NM | **RPL14** | ribosomal protein L14 | protein_coding | 217 | 216 | 218 | 217 | 0.995 |
| 9046 | NM_001317800,NM | **DOK2** | docking protein 2 | protein_coding | 2 | 1 | 3 | 2 | 0.903 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9047 | NM_001161441,NM | **SH2D2A** | SH2 domain containing 2 | protein_coding | 210 | 215 | 211 | 216 | 1.021 |
| 9048 | NM_001136215,NM | **ARTN** | artemin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9049 | NM_001302959,NM | **AIP** | aryl hydrocarbon receptc | protein_coding | 95 | 100 | 96 | 101 | 1.045 |
| 9050 | NM_024430,XM_01 | **PSTPIP2** | proline-serine-threonine | protein_coding | 13 | 12 | 14 | 13 | 0.956 |
| 9051 | NM_001321135,NM | **PSTPIP1** | proline-serine-threonine | protein_coding | 82 | 81 | 83 | 82 | 0.995 |
| 9052 | NM_003979 | **GPRC5A** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9053 | NM_001198608,NM | **MAP7** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9054 | NM_001198989,NM | **NFS1** | NFS1 cysteine desulfura | protein_coding | 27 | 28 | 28 | 29 | 1.036 |
| 9055 | NM_001267580,NM | **PRC1** | protein regulator of cytok | protein_coding | 89 | 79 | 90 | 80 | 0.886 |
| 9056 | NM_001126105,NM | **SLC7A7** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.177 |
| 9057 | NM_001076785,NM | **SLC7A6** | solute carrier family 7 me | protein_coding | 35 | 31 | 36 | 32 | 0.895 |
| 9058 | NM_001145975,NM | **SLC13A2** | solute carrier family 13 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9060 | NM_001015880,NM | **PAPSS2** | 3'-phosphoadenosine 5'- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9061 | NM_005443,XM_01 | **PAPSS1** | 3'-phosphoadenosine 5'- | protein_coding | 23 | 22 | 24 | 23 | 0.989 |
| 9063 | NM_001324046,NM | **PIAS2** | protein inhibitor of activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9064 | NM_001297609,NM | **MAP3K6** | mitogen-activated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9066 | NM_001252065,NM | **SYT7** | synaptotagmin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9068 | NM_001376763,NM | **ANGPTL1** | angiopoietin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.046 |
| 9069 | NM_001185072,NM | **CLDN12** | claudin 12 | protein_coding | 6 | 5 | 7 | 6 | 0.893 |
| 9070 | NM_001105214,NM | **ASH2L** | ASH2 like, histone lysine | protein_coding | 63 | 74 | 64 | 75 | 1.175 |
| 9071 | NM_001160100,NM | **CLDN10** | claudin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9073 | NM_199328 | **CLDN8** | claudin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9074 | NM_021195 | **CLDN6** | claudin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9075 | NM_001171092,NM | **CLDN2** | claudin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9076 | NM_021101 | **CLDN1** | claudin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9077 | NM_004675 | **DIRAS3** | DIRAS family GTPase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9079 | NM_001130834,NM | **LDB2** | LIM domain binding 2 | protein_coding | 9 | 8 | 10 | 9 | 0.863 |
| 9080 | NM_020982 | **CLDN9** | claudin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9081 | NM_004676,XM_01 | **PRY** | PTPN13 like Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9082 | NM_004677 | **XKRY** | XK related, Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9083 | NM_004678 | **BPY2** | basic charge Y-linked 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9084 | NM_004679 | **VCY** | variable charge Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9085 | NM_004680,NM_17 | **CDY1** | chromodomain Y-linked 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9086 | NM_001278612,NM | **EIF1AY** | eukaryotic translation init | protein_coding | 239 | 238 | 240 | 239 | 0.995 |
| 9087 | NM_004202 | **TMSB4Y** | thymosin beta 4 Y-linked | protein_coding | 3 | 4 | 4 | 5 | 1.187 |
| 9088 | NM_001258450,NM | **PKMYT1** | protein kinase, membran | protein_coding | 106 | 106 | 107 | 107 | 0.998 |
| 9091 | NM_004204,NM_14 | **PIGQ** | phosphatidylinositol glyc | protein_coding | 20 | 22 | 21 | 23 | 1.070 |
| 9092 | NM_005146,XM_01 | **SART1** | spliceosome associated 1 | protein_coding | 131 | 142 | 132 | 143 | 1.083 |
| 9093 | NM_001135110,NM | **DNAJA3** | DnaJ heat shock protein | protein_coding | 148 | 150 | 149 | 151 | 1.013 |
| 9094 | NM_001330166,NM | **UNC119** | unc-119 lipid binding cha | protein_coding | 3 | 3 | 4 | 4 | 0.886 |
| 9095 | NM_005149 | **TBX19** | T-box transcription factor | protein_coding | 3 | 2 | 4 | 3 | 0.804 |
| 9096 | NM_001080508,XM | **TBX18** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9097 | NM_001037334,NM | **USP14** | ubiquitin specific peptida | protein_coding | 63 | 57 | 64 | 58 | 0.909 |
| 9098 | NM_001304284,NM | **USP6** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 9099 | NM_001243759,NM | **USP2** | ubiquitin specific peptida | protein_coding | 1 | 1 | 2 | 2 | 0.900 |
| 9100 | NM_001272075,NM | **USP10** | ubiquitin specific peptida | protein_coding | 114 | 103 | 115 | 104 | 0.912 |
| 9101 | NM_001128610,NM | **USP8** | ubiquitin specific peptida | protein_coding | 62 | 61 | 63 | 62 | 0.988 |
| 9103 | NR_047648 | **FCGR2C** | Fc fragment of IgG recep | transcribed_pseu | 0 | 0 | 1 | 1 | 1.048 |
| 9104 | NM_001282848,NM | **RGN** | regucalcin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9107 | NM_004685,XM_01 | **MTMR6** | myotubularin related pro | protein_coding | 43 | 37 | 44 | 38 | 0.855 |
| 9108 | NM_004686,XM_00 | **MTMR7** | myotubularin related pro | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 9110 | NM_001378066,NM | **MTMR4** | myotubularin related pro | protein_coding | 41 | 36 | 42 | 37 | 0.864 |
| 9111 | NM_004688,XM_00 | **NMI** | N-myc and STAT interac | protein_coding | 180 | 170 | 181 | 171 | 0.944 |
| 9112 | NM_001203258,NM | **MTA1** | metastasis associated 1 | protein_coding | 64 | 60 | 65 | 61 | 0.949 |
| 9113 | NM_001270519,NM | **LATS1** | large tumor suppressor k | protein_coding | 13 | 12 | 14 | 13 | 0.891 |
| 9114 | NM_004691,XM_01 | **ATP6V0D1** | ATPase H+ transporting | protein_coding | 46 | 54 | 47 | 55 | 1.177 |
| 9117 | NM_001201572,NM | **SEC22C** | SEC22 homolog C, vesic | protein_coding | 29 | 25 | 30 | 26 | 0.848 |
| 9118 | NM_032727 | **INA** | internexin neuronal inter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9119 | NM_004693 | **KRT75** | keratin 75 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9120 | NM_001174166,NM | **SLC16A6** | solute carrier family 16 m | protein_coding | 16 | 16 | 17 | 17 | 0.972 |
| 9121 | NM_001271765,NM | **SLC16A5** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9122 | NM_001201546,NM | **SLC16A4** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 9123 | NM_001042422,NM | **SLC16A3** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9124 | NM_020992,XM_01 | **PDLIM1** | PDZ and LIM domain 1 | protein_coding | 75 | 85 | 76 | 86 | 1.131 |
| 9125 | NM_001271634,NM | **CNOT9** | CCR4-NOT transcription | protein_coding | 153 | 161 | 154 | 162 | 1.051 |
| 9126 | NM_005445 | **SMC3** | structural maintenance o | protein_coding | 89 | 79 | 90 | 80 | 0.888 |
| 9127 | NM_001159554,NM | **P2RX6** | purinergic receptor P2X | protein_coding | 0 | 0 | 1 | 1 | 0.905 |
| 9128 | NM_001244926,NM | **PRPF4** | pre-mRNA processing fa | protein_coding | 77 | 75 | 78 | 76 | 0.978 |
| 9129 | NM_001350529,NM | **PRPF3** | pre-mRNA processing fa | protein_coding | 64 | 63 | 65 | 64 | 0.977 |
| 9130 | NM_004699 | **FAM50A** | family with sequence sim | protein_coding | 69 | 71 | 70 | 72 | 1.036 |
| 9131 | NM_001130846,NM | **AIFM1** | apoptosis inducing factor | protein_coding | 116 | 111 | 117 | 112 | 0.953 |
| 9132 | NM_004700,NM_17 | **KCNQ4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 9133 | NM_004701 | **CCNB2** | cyclin B2 | protein_coding | 152 | 152 | 153 | 153 | 1.002 |
| 9134 | NM_057749,XM_01 | **CCNE2** | cyclin E2 | protein_coding | 21 | 22 | 22 | 23 | 1.055 |
| 9135 | NM_001083585,NM | **RABEP1** | rabaptin, RAB GTPase b | protein_coding | 30 | 27 | 31 | 28 | 0.917 |
| 9136 | NM_004704 | **RRP9** | ribosomal RNA processir | protein_coding | 133 | 143 | 134 | 144 | 1.079 |
| 9138 | NM_004706,NM_19 | **ARHGEF1** | Rho guanine nucleotide | protein_coding | 171 | 172 | 172 | 173 | 1.010 |
| 9139 | NM_001032999,NM | **CBFA2T2** | CBFA2/RUNX1 partner t | protein_coding | 6 | 6 | 7 | 7 | 0.966 |
| 9140 | NM_001277783,NM | **ATG12** | autophagy related 12 | protein_coding | 40 | 36 | 41 | 37 | 0.888 |
| 9141 | NM_004708,XM_00 | **PDCD5** | programmed cell death 5 | protein_coding | 351 | 349 | 352 | 350 | 0.996 |
| 9143 | NM_004209 | **SYNGR3** | synaptogyrin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9144 | NM_001320523,NM | **SYNGR2** | synaptogyrin 2 | protein_coding | 160 | 171 | 161 | 172 | 1.071 |
| 9145 | NM_004711,NM_14 | **SYNGR1** | synaptogyrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9146 | NM_004712 | **HGS** | hepatocyte growth factor | protein_coding | 48 | 48 | 49 | 49 | 1.000 |
| 9147 | NM_001301732,NM | **NEMF** | nuclear export mediator f | protein_coding | 29 | 26 | 30 | 27 | 0.890 |
| 9148 | NM_004210,XM_00 | **NEURL1** | neuralized E3 ubiquitin p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9149 | NM_004714,NM_00 | **DYRK1B** | dual specificity tyrosine p | protein_coding | 3 | 3 | 4 | 4 | 1.016 |
| 9150 | NM_001202504,NM | **CTDP1** | CTD phosphatase subun | protein_coding | 30 | 31 | 31 | 32 | 1.040 |
| 9152 | NM_001318369,NM | **SLC6A5** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 9153 | NM_004212,XM_01 | **SLC28A2** | solute carrier family 28 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9154 | NM_001287761,NM | **SLC28A1** | solute carrier family 28 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9156 | NM_001319224,NM | **EXO1** | exonuclease 1 | protein_coding | 38 | 34 | 39 | 35 | 0.898 |
| 9158 | NM_004214,NM_19 | **FIBP** | FGF1 intracellular bindin | protein_coding | 65 | 67 | 66 | 68 | 1.026 |
| 9159 | NM_004716,XM_00 | **PCSK7** | proprotein convertase su | protein_coding | 64 | 66 | 65 | 67 | 1.027 |
| 9162 | NM_001321708,NM | **DGKI** | diacylglycerol kinase iota | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9166 | NM_001278938,NM | **EBAG9** | estrogen receptor bindin | protein_coding | 38 | 37 | 39 | 38 | 0.977 |
| 9167 | NM_001319036,NM | **COX7A2L** | cytochrome c oxidase su | protein_coding | 114 | 123 | 115 | 124 | 1.080 |
| 9168 | NM_021103 | **TMSB10** | thymosin beta 10 | protein_coding | 3,392 | 3,820 | 3,393 | 3,821 | 1.126 |
| 9169 | NM_004719,XM_00 | **SCAF11** | SR-related CTD associat | protein_coding | 44 | 38 | 45 | 39 | 0.872 |
| 9170 | NM_004720,XM_01 | **LPAR2** | lysophosphatidic acid re | protein_coding | 5 | 6 | 6 | 7 | 1.090 |
| 9172 | NM_003970,XM_00 | **MYOM2** | myomesin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9173 | NM_001282408,NM | **IL1RL1** | interleukin 1 receptor like | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 9175 | NM_001242314,NM | **MAP3K13** | mitogen-activated protein | protein_coding | 25 | 23 | 26 | 24 | 0.932 |
| 9177 | NM_001363563,NM | **HTR3B** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9179 | NM_001363671,NM | **AP4M1** | adaptor related protein c | protein_coding | 6 | 7 | 7 | 8 | 1.219 |
| 9180 | NM_001168355,NM | **OSMR** | oncostatin M receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9181 | NM_001162383,NM | **ARHGEF2** | Rho/Rac guanine nucleo | protein_coding | 65 | 62 | 66 | 63 | 0.957 |
| 9182 | NM_005447,XM_01 | **RASSF9** | Ras association domain f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9183 | NM_004724,XM_01 | **ZW10** | zw10 kinetochore protein | protein_coding | 49 | 45 | 50 | 46 | 0.928 |
| 9184 | NM_001007793,NM | **BUB3** | BUB3 mitotic checkpoint | protein_coding | 101 | 114 | 102 | 115 | 1.131 |
| 9185 | NM_001080975,NM | **REPS2** | RALBP1 associated Eps | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9187 | NM_001254740,NM | **SLC24A1** | solute carrier family 24 m | protein_coding | 1 | 1 | 2 | 2 | 1.059 |
| 9188 | NM_001256910,NM | **DDX21** | DExD-box helicase 21 | protein_coding | 343 | 300 | 344 | 301 | 0.877 |
| 9189 | NM_001171135,NM | **ZBED1** | zinc finger BED-type con | protein_coding | 12 | 12 | 13 | 13 | 0.988 |
| 9191 | NM_001039711,NM | **DEDD** | death effector domain co | protein_coding | 31 | 36 | 32 | 37 | 1.158 |
| 9194 | NM_001270622,NM | **SLC16A7** | solute carrier family 16 m | protein_coding | 5 | 4 | 6 | 5 | 0.729 |
| 9196 | NM_004732,XM_01 | **KCNAB3** | potassium voltage-gated | protein_coding | 1 | 2 | 2 | 3 | 1.265 |
| 9197 | NM_001190992,NM | **SLC33A1** | solute carrier family 33 m | protein_coding | 13 | 9 | 14 | 10 | 0.722 |
| 9200 | NM_014241,XM_00 | **HACD1** | 3-hydroxyacyl-CoA dehy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9201 | NM_001195415,NM | **DCLK1** | doublecortin like kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 0.894 |
| 9202 | NM_001350138,NM | **ZMYM4** | zinc finger MYM-type cor | protein_coding | 31 | 27 | 32 | 28 | 0.895 |
| 9203 | NM_001171162,NM | **ZMYM3** | zinc finger MYM-type cor | protein_coding | 28 | 30 | 29 | 31 | 1.072 |
| 9204 | NM_007167 | **ZMYM6** | zinc finger MYM-type cor | protein_coding | 13 | 12 | 14 | 13 | 0.978 |
| 9205 | NM_001039649,NM | **ZMYM5** | zinc finger MYM-type cor | protein_coding | 22 | 18 | 23 | 19 | 0.812 |
| 9206 | gene-RAD17P2 | **RAD17P2** | RAD17 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 9207 | gene-RAD17P1 | **RAD17P1** | RAD17 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9208 | NM_001137550,NM | **LRRFIP1** | LRR binding FLII interact | protein_coding | 272 | 185 | 273 | 186 | 0.684 |
| 9209 | NM_001134369,NM | **LRRFIP2** | LRR binding FLII interact | protein_coding | 32 | 30 | 33 | 31 | 0.966 |
| 9210 | NM_005448 | **BMP15** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9211 | NM_001308275,NM | **LGI1** | leucine rich glioma inacti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9212 | NM_001256834,NM | **AURKB** | aurora kinase B | protein_coding | 120 | 122 | 121 | 123 | 1.018 |
| 9213 | NM_001135669,NM | **XPR1** | xenotropic and polytropic | protein_coding | 27 | 23 | 28 | 24 | 0.846 |
| 9214 | NM_001142473,NM | **FCMR** | Fc fragment of IgM recep | protein_coding | 11 | 14 | 12 | 15 | 1.194 |
| 9215 | NM_001362949,NM | **LARGE1** | LARGE xylosyl- and gluc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9217 | NM_001195677,NM | **VAPB** | VAMP associated protein | protein_coding | 23 | 22 | 24 | 23 | 0.972 |
| 9218 | NM_003574,NM_19 | **VAPA** | VAMP associated protein | protein_coding | 34 | 34 | 35 | 35 | 1.021 |
| 9219 | NM_001330292,NM | **MTA2** | metastasis associated 1 | protein_coding | 221 | 230 | 222 | 231 | 1.041 |
| 9220 | NM_004740 | **TIAF1** | TGFB1-induced anti-apo | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 9221 | NM_001284388,NM | **NOLC1** | nucleolar and coiled-bod | protein_coding | 321 | 310 | 322 | 311 | 0.968 |
| 9223 | NM_001033057,NM | **MAGI1** | membrane associated gu | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 9227 | NM_001301645,NM | **LRAT** | lecithin retinol acyltransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9228 | NM_001346810,NR | **DLGAP2** | DLG associated protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9229 | NM_001003809,NM | **DLGAP1** | DLG associated protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9230 | NM_004218 | **RAB11B** | RAB11B, member RAS c | protein_coding | 81 | 95 | 82 | 96 | 1.163 |
| 9231 | NM_004747,XM_00 | **DLG5** | discs large MAGUK scaf | protein_coding | 7 | 7 | 8 | 8 | 0.922 |
| 9232 | NM_001282382,NM | **PTTG1** | PTTG1 regulator of siste | protein_coding | 302 | 292 | 303 | 293 | 0.966 |
| 9235 | NM_001012631,NM | **IL32** | interleukin 32 | protein_coding | 2,644 | 2,812 | 2,645 | 2,813 | 1.064 |
| 9236 | NM_001204450,NM | **CCPG1** | cell cycle progression 1 | protein_coding | 12 | 10 | 13 | 11 | 0.857 |
| 9238 | NM_001261834,NM | **TBRG4** | transforming growth fact | protein_coding | 69 | 68 | 70 | 69 | 0.984 |
| 9240 | NM_006029 | **PNMA1** | PNMA family member 1 | protein_coding | 45 | 46 | 46 | 47 | 1.021 |
| 9241 | NM_005450 | **NOG** | noggin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9242 | NM_005098 | **MSC** | musculin | protein_coding | 34 | 40 | 35 | 41 | 1.185 |
| 9244 | NM_004750 | **CRLF1** | cytokine receptor like fac | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 9245 | NM_004751 | **GCNT3** | glucosaminyl (N-acetyl) t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9246 | NM_004223,NM_19 | **UBE2L6** | ubiquitin conjugating en | protein_coding | 276 | 275 | 277 | 276 | 0.994 |
| 9247 | NM_004752 | **GCM2** | glial cells missing transc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9248 | NM_004224,XM_01 | **GPR50** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9249 | NM_001319225,NM | **DHRS3** | dehydrogenase/reductas | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 9252 | NM_001322227,NM | **RPS6KA5** | ribosomal protein S6 kina | protein_coding | 7 | 5 | 8 | 6 | 0.828 |
| 9253 | NM_001289979,NM | **NUMBL** | NUMB like endocytic ada | protein_coding | 2 | 2 | 3 | 3 | 0.982 |
| 9254 | NM_001005505,NM | **CACNA2D2** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9255 | NM_001142415,NM | **AIMP1** | aminoacyl tRNA synthet | protein_coding | 64 | 59 | 65 | 60 | 0.919 |
| 9256 | NM_001261835,NM | **TSPOAP1** | TSPO associated protein | protein_coding | 4 | 5 | 5 | 6 | 1.156 |
| 9258 | NM_004225,XM_01 | **MFHAS1** | malignant fibrous histioc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9260 | NM_005451,NM_20 | **PDLIM7** | PDZ and LIM domain 7 | protein_coding | 6 | 5 | 7 | 6 | 0.884 |
| 9261 | NM_004759,NM_03 | **MAPKAPK2** | MAPK activated protein k | protein_coding | 127 | 133 | 128 | 134 | 1.045 |
| 9262 | NM_004226,XM_01 | **STK17B** | serine/threonine kinase 1 | protein_coding | 200 | 155 | 201 | 156 | 0.774 |
| 9263 | NM_004760,XM_01 | **STK17A** | serine/threonine kinase 1 | protein_coding | 27 | 21 | 28 | 22 | 0.810 |
| 9265 | NM_001367580,NM | **CYTH3** | cytohesin 3 | protein_coding | 4 | 3 | 5 | 4 | 0.862 |
| 9266 | NM_004228,NM_01 | **CYTH2** | cytohesin 2 | protein_coding | 21 | 21 | 22 | 22 | 1.023 |
| 9267 | NM_001292018,NM | **CYTH1** | cytohesin 1 | protein_coding | 28 | 27 | 29 | 28 | 0.975 |
| 9270 | NM_001319066,NM | **ITGB1BP1** | integrin subunit beta 1 bi | protein_coding | 41 | 47 | 42 | 48 | 1.130 |
| 9271 | NM_001190971,NM | **PIWIL1** | piwi like RNA-mediated g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9274 | NM_001286526,NM | **BCL7C** | BAF chromatin remodelir | protein_coding | 36 | 45 | 37 | 46 | 1.235 |
| 9275 | NM_001197244,NM | **BCL7B** | BAF chromatin remodelir | protein_coding | 146 | 147 | 147 | 148 | 1.003 |
| 9276 | NM_004766,NR_02 | **COPB2** | COPI coat complex subu | protein_coding | 148 | 128 | 149 | 129 | 0.870 |
| 9277 | NM_001164267,NM | **WDR46** | WD repeat domain 46 | protein_coding | 131 | 134 | 132 | 135 | 1.024 |
| 9278 | NM_001145338,NM | **ZBTB22** | zinc finger and BTB dom | protein_coding | 2 | 3 | 3 | 4 | 1.273 |
| 9282 | NM_004229,XM_00 | **MED14** | mediator complex subun | protein_coding | 31 | 23 | 32 | 24 | 0.742 |
| 9283 | NM_004767,XM_01 | **GPR37L1** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9284 | NM_006985 | **NPIPA1** | nuclear pore complex int | protein_coding | 1 | 1 | 2 | 2 | 0.962 |
| 9287 | NM_001033080,NM | **TAAR2** | trace amine associated r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9288 | NR_028511 | **TAAR3P** | trace amine associated r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 9289 | NM_001145770,NM | **ADGRG1** | adhesion G protein-coup | protein_coding | 1 | 1 | 2 | 2 | 1.194 |
| 9290 | NM_005683,XM_00 | **GPR55** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.896 |
| 9293 | NM_005684 | **GPR52** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.859 |
| 9294 | NM_004230 | **S1PR2** | sphingosine-1-phosphat | protein_coding | 0 | 0 | 1 | 1 | 0.841 |
| 9295 | NM_001190987,NM | **SRSF11** | serine and arginine rich s | protein_coding | 206 | 178 | 207 | 179 | 0.865 |
| 9296 | NM_001198909,NM | **ATP6V1F** | ATPase H+ transporting | protein_coding | 289 | 312 | 290 | 313 | 1.079 |
| 9297 | NR_002559 | **SNORD29** | small nucleolar RNA, C/I | snoRNA | 29 | 24 | 30 | 25 | 0.832 |
| 9298 | NR_002560 | **SNORD31** | small nucleolar RNA, C/I | snoRNA | 19 | 23 | 20 | 24 | 1.162 |
| 9299 | NR_002561 | **SNORD30** | small nucleolar RNA, C/I | snoRNA | 22 | 19 | 23 | 20 | 0.895 |
| 9300 | NR_002562 | **SNORD28** | small nucleolar RNA, C/I | snoRNA | 19 | 17 | 20 | 18 | 0.895 |
| 9301 | NR_002563 | **SNORD27** | small nucleolar RNA, C/I | snoRNA | 15 | 13 | 16 | 14 | 0.857 |
| 9302 | NR_002564 | **SNORD26** | small nucleolar RNA, C/I | snoRNA | 21 | 17 | 22 | 18 | 0.804 |
| 9303 | NR_002565 | **SNORD25** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.972 |
| 9304 | NR_000008 | **SNORD22** | small nucleolar RNA, C/I | snoRNA | 28 | 28 | 29 | 29 | 0.998 |
| 9306 | NM_004232,XM_00 | **SOCS6** | suppressor of cytokine si | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9308 | NM_001040280,NM | **CD83** | CD83 molecule | protein_coding | 11 | 10 | 12 | 11 | 0.951 |
| 9310 | NM_004234,XM_00 | **ZNF235** | zinc finger protein 235 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9311 | NM_004769,NM_02 | **ASIC3** | acid sensing ion channel | protein_coding | 0 | 0 | 1 | 1 | 1.203 |
| 9312 | NM_004770,XM_01 | **KCNB2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9313 | NM_004771 | **MMP20** | matrix metallopeptidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9314 | NM_001314052,NM | **KLF4** | Kruppel like factor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9315 | NM_001142474,NM | **NREP** | neuronal regeneration re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9317 | NM_001001484,NM | **PTER** | phosphotriesterase relate | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 9318 | NM_001143887,NM | **COPS2** | COP9 signalosome subu | protein_coding | 76 | 70 | 77 | 71 | 0.924 |
| 9319 | NM_001166260,NM | **TRIP13** | thyroid hormone recepto | protein_coding | 84 | 82 | 85 | 83 | 0.973 |
| 9320 | NM_001284214,NM | **TRIP12** | thyroid hormone recepto | protein_coding | 100 | 85 | 101 | 86 | 0.859 |
| 9321 | NM_001321851,NM | **TRIP11** | thyroid hormone recepto | protein_coding | 9 | 8 | 10 | 9 | 0.884 |
| 9322 | NM_001288962,NM | **TRIP10** | thyroid hormone recepto | protein_coding | 9 | 7 | 10 | 8 | 0.788 |
| 9324 | NM_001201362,NM | **HMGN3** | high mobility group nucl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9325 | NM_001321924,NM | **TRIP4** | thyroid hormone recepto | protein_coding | 27 | 26 | 28 | 27 | 0.963 |
| 9326 | NM_001281432,NM | **ZNHIT3** | zinc finger HIT-type cont | protein_coding | 136 | 148 | 137 | 149 | 1.086 |
| 9328 | NM_001122823,NM | **GTF3C5** | general transcription fact | protein_coding | 78 | 80 | 79 | 81 | 1.032 |
| 9329 | NM_012204,NR_13 | **GTF3C4** | general transcription fact | protein_coding | 22 | 19 | 23 | 20 | 0.864 |
| 9330 | NM_001206774,NM | **GTF3C3** | general transcription fact | protein_coding | 46 | 43 | 47 | 44 | 0.948 |
| 9331 | NM_001330570,NM | **B4GALT6** | beta-1,4-galactosyltransf | protein_coding | 3 | 3 | 4 | 4 | 1.176 |
| 9332 | NM_001370145,NM | **CD163** | CD163 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 9333 | NM_004245,NM_20 | **TGM5** | transglutaminase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9334 | NM_004776 | **B4GALT5** | beta-1,4-galactosyltransf | protein_coding | 153 | 152 | 154 | 153 | 0.996 |
| 9337 | NM_001301073,NM | **CNOT8** | CCR4-NOT transcription | protein_coding | 52 | 50 | 53 | 51 | 0.963 |
| 9338 | NM_001006639,NM | **TCEAL1** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9340 | NM_004246,XM_00 | **GLP2R** | glucagon like peptide 2 r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9341 | NM_004781,XM_01 | **VAMP3** | vesicle associated memb | protein_coding | 22 | 23 | 23 | 24 | 1.042 |
| 9342 | NM_004782 | **SNAP29** | synaptosome associated | protein_coding | 34 | 32 | 35 | 33 | 0.941 |
| 9343 | NM_001142605,NM | **EFTUD2** | elongation factor Tu GTF | protein_coding | 187 | 178 | 188 | 179 | 0.956 |
| 9344 | NM_001252043,NM | **TAOK2** | TAO kinase 2 | protein_coding | 44 | 44 | 45 | 45 | 1.006 |
| 9348 | NM_004784,NR_14 | **NDST3** | N-deacetylase and N-sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9349 | NM_000978 | **RPL23** | ribosomal protein L23 | protein_coding | 694 | 720 | 695 | 721 | 1.038 |
| 9350 | NM_005454,XR_00 | **CER1** | cerberus 1, DAN family E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9351 | NM_001130012,NM | **SLC9A3R2** | SLC9A3 regulator 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9352 | NM_004786,NR_02 | **TXNL1** | thioredoxin like 1 | protein_coding | 40 | 35 | 41 | 36 | 0.882 |
| 9353 | NM_001289135,NM | **SLIT2** | slit guidance ligand 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9354 | NM_001204077,NM | **UBE4A** | ubiquitination factor E4A | protein_coding | 44 | 41 | 45 | 42 | 0.931 |
| 9355 | NM_004789,XM_00 | **LHX2** | LIM homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9356 | NM_004790,NM_15 | **SLC22A6** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9358 | NM_001271754,NM | **ITGBL1** | integrin subunit beta like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9360 | NM_004792,XM_00 | **PPIG** | peptidylprolyl isomerase | protein_coding | 77 | 67 | 78 | 68 | 0.873 |
| 9361 | NM_001276479,NM | **LONP1** | lon peptidase 1, mitocho | protein_coding | 114 | 120 | 115 | 121 | 1.054 |
| 9362 | NM_001280558,NM | **CPNE6** | copine 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9363 | NM_004794,XM_01 | **RAB33A** | RAB33A, member RAS o | protein_coding | 48 | 45 | 49 | 46 | 0.926 |
| 9364 | NM_001017979,NM | **RAB28** | RAB28, member RAS on | protein_coding | 38 | 34 | 39 | 35 | 0.913 |
| 9365 | NM_004795,XM_00 | **KL** | klotho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9366 | NR_000039 | **RAB9BP1** | RAB9B, member RAS on | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 9367 | NM_001195328,NM | **RAB9A** | RAB9A, member RAS on | protein_coding | 21 | 19 | 22 | 20 | 0.922 |
| 9368 | NM_004252,XR_00 | **SLC9A3R1** | SLC9A3 regulator 1 | protein_coding | 414 | 403 | 415 | 404 | 0.973 |
| 9369 | NM_001105250,NM | **NRXN3** | neurexin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 9370 | NM_001177800,NM | **ADIPOQ** | adiponectin, C1Q and co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9371 | NM_004798,XR_00 | **KIF3B** | kinesin family member 3I | protein_coding | 34 | 29 | 35 | 30 | 0.856 |
| 9372 | NM_004799,NM_00 | **ZFYVE9** | zinc finger FYVE-type co | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 9373 | NM_001031689,NM | **PLAA** | phospholipase A2 activat | protein_coding | 35 | 33 | 36 | 34 | 0.939 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9374 | NM_001204103,NM | **PPT2** | palmitoyl-protein thioeste | protein_coding | 4 | 3 | 5 | 4 | 0.877 |
| 9375 | NM_004800 | **TM9SF2** | transmembrane 9 superf | protein_coding | 105 | 94 | 106 | 95 | 0.895 |
| 9376 | NM_001184732,NM | **SLC22A8** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9377 | NM_004255 | **COX5A** | cytochrome c oxidase su | protein_coding | 280 | 303 | 281 | 304 | 1.085 |
| 9378 | NM_001135659,NM | **NRXN1** | neurexin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 9379 | NM_001376262,NM | **NRXN2** | neurexin 2 | protein_coding | 1 | 1 | 2 | 2 | 0.918 |
| 9380 | NM_012203,XM_00 | **GRHPR** | glyoxylate and hydroxyp | protein_coding | 44 | 51 | 45 | 52 | 1.167 |
| 9381 | NM_001287489,NM | **OTOF** | otoferlin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9382 | NM_018714 | **COG1** | component of oligomeric | protein_coding | 13 | 15 | 14 | 16 | 1.151 |
| 9383 | NR_003255 | **TSIX** | TSIX transcript, XIST ant | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 9384 | gene-COX6CP1 | **COX6CP1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.163 |
| 9385 | gene-COX5AP1 | **COX5AP1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 9386 | gene-COX7CP1 | **COX7CP1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 0.892 |
| 9388 | NM_001308006,NM | **LIPG** | lipase G, endothelial typ | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 9389 | NM_001320033,NM | **SLC22A14** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9390 | NM_004256 | **SLC22A13** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 9391 | NM_004804,XM_02 | **CIAO1** | cytosolic iron-sulfur asse | protein_coding | 81 | 76 | 82 | 77 | 0.941 |
| 9392 | NM_001142621,NM | **TGFBRAP1** | transforming growth fact | protein_coding | 37 | 32 | 38 | 33 | 0.879 |
| 9394 | NM_004807 | **HS6ST1** | heparan sulfate 6-O-sulf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9397 | NM_001308295,NM | **NMT2** | N-myristoyltransferase 2 | protein_coding | 6 | 6 | 7 | 7 | 0.956 |
| 9398 | NM_001256106,NM | **CD101** | CD101 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.945 |
| 9399 | NM_001256672,NM | **STOML1** | stomatin like 1 | protein_coding | 6 | 9 | 7 | 10 | 1.496 |
| 9400 | NM_001003715,NM | **RECQL5** | RecQ like helicase 5 | protein_coding | 16 | 19 | 17 | 20 | 1.154 |
| 9401 | NM_004260,XM_01 | **RECQL4** | RecQ like helicase 4 | protein_coding | 18 | 19 | 19 | 20 | 1.069 |
| 9402 | NM_001291824,NM | **GRAP2** | GRB2 related adaptor pr | protein_coding | 37 | 30 | 38 | 31 | 0.822 |
| 9403 | NM_004261,NM_20 | **SELENOF** | selenoprotein F | protein_coding | 263 | 253 | 264 | 254 | 0.961 |
| 9404 | NM_001143995,NM | **LPXN** | leupaxin | protein_coding | 194 | 193 | 195 | 194 | 0.995 |
| 9406 | NM_005455,NM_20 | **ZRANB2** | zinc finger RANBP2-type | protein_coding | 223 | 183 | 224 | 184 | 0.824 |
| 9407 | NM_004262,XM_00 | **TMPRSS11D** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9409 | NM_004813,NM_05 | **PEX16** | peroxisomal biogenesis f | protein_coding | 48 | 52 | 49 | 53 | 1.069 |
| 9410 | NM_004814 | **SNRNP40** | small nuclear ribonucleo | protein_coding | 228 | 219 | 229 | 220 | 0.958 |
| 9411 | NM_001328664,NM | **ARHGAP29** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9412 | NM_001271811,NM | **MED21** | mediator complex subun | protein_coding | 32 | 28 | 33 | 29 | 0.859 |
| 9413 | NM_001127608,NM | **FAM189A2** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9414 | NM_001170414,NM | **TJP2** | tight junction protein 2 | protein_coding | 1 | 1 | 2 | 2 | 0.849 |
| 9415 | NM_001281501,NM | **FADS2** | fatty acid desaturase 2 | protein_coding | 6 | 6 | 7 | 7 | 1.015 |
| 9416 | NM_004818 | **DDX23** | DEAD-box helicase 23 | protein_coding | 131 | 133 | 132 | 134 | 1.010 |
| 9419 | NM_014171 | **CRIPT** | CXXC repeat containing | protein_coding | 3 | 4 | 4 | 5 | 1.136 |
| 9420 | NM_001324112,NM | **CYP7B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9421 | NM_004821,XM_00 | **HAND1** | heart and neural crest de | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9422 | NM_003417,XM_01 | **ZNF264** | zinc finger protein 264 | protein_coding | 9 | 7 | 10 | 8 | 0.772 |
| 9423 | NM_004822,XM_00 | **NTN1** | netrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9424 | NM_004823,XM_01 | **KCNK6** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9425 | NM_001143970,NM | **CDYL** | chromodomain Y like | protein_coding | 47 | 43 | 48 | 44 | 0.913 |
| 9426 | NM_004825 | **CDY2A** | chromodomain Y-linked 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9427 | NM_001290787,NM | **ECEL1** | endothelin converting en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9429 | NM_001257386,NM | **ABCG2** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9430 | gene-MYLKP1 | **MYLKP1** | myosin light chain kinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 9435 | NM_004267 | **CHST2** | carbohydrate sulfotransf | protein_coding | 23 | 23 | 24 | 24 | 0.982 |
| 9436 | NM_001199509,NM | **NCR2** | natural cytotoxicity trigge | protein_coding | 31 | 35 | 32 | 36 | 1.107 |
| 9437 | NM_001145457,NM | **NCR1** | natural cytotoxicity trigge | protein_coding | 74 | 62 | 75 | 63 | 0.830 |
| 9439 | NM_001270521,NM | **MED23** | mediator complex subun | protein_coding | 13 | 12 | 14 | 13 | 0.943 |
| 9440 | NM_004268 | **MED17** | mediator complex subun | protein_coding | 19 | 17 | 20 | 18 | 0.925 |
| 9441 | NM_004831 | **MED26** | mediator complex subun | protein_coding | 21 | 21 | 22 | 22 | 1.001 |
| 9442 | NM_001253881,NM | **MED27** | mediator complex subun | protein_coding | 49 | 52 | 50 | 53 | 1.073 |
| 9443 | NM_001100816,NM | **MED7** | mediator complex subun | protein_coding | 24 | 22 | 25 | 23 | 0.910 |
| 9444 | NM_001301085,NM | **QKI** | QKI, KH domain containi | protein_coding | 11 | 8 | 12 | 9 | 0.754 |
| 9445 | NM_021999 | **ITM2B** | integral membrane prote | protein_coding | 26 | 23 | 27 | 24 | 0.902 |
| 9446 | NM_001191002,NM | **GSTO1** | glutathione S-transferase | protein_coding | 137 | 132 | 138 | 133 | 0.962 |
| 9447 | NM_001348247,NM | **AIM2** | absent in melanoma 2 | protein_coding | 42 | 38 | 43 | 39 | 0.915 |
| 9448 | NM_001242559,NM | **MAP4K4** | mitogen-activated protein | protein_coding | 11 | 11 | 12 | 12 | 1.002 |
| 9450 | NM_004271,XM_01 | **LY86** | lymphocyte antigen 86 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9451 | NM_001313915,NM | **EIF2AK3** | eukaryotic translation init | protein_coding | 24 | 22 | 25 | 23 | 0.935 |
| 9452 | NM_001171581,NM | **ITM2A** | integral membrane prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9453 | NM_001037277,NM | **GGPS1** | geranylgeranyl diphosph | protein_coding | 14 | 13 | 15 | 14 | 0.961 |
| 9454 | NM_001145721,NM | **HOMER3** | homer scaffold protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9455 | NM_004839,NM_19 | **HOMER2** | homer scaffold protein 2 | protein_coding | 1 | 1 | 2 | 2 | 0.975 |
| 9456 | NM_001277077,NM | **HOMER1** | homer scaffold protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9457 | NM_001170807,NM | **FHL5** | four and a half LIM doma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9459 | NM_001306177,NM | **ARHGEF6** | Rac/Cdc42 guanine nucl | protein_coding | 55 | 48 | 56 | 49 | 0.866 |
| 9462 | NM_004841,NM_17 | **RASAL2** | RAS protein activator like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9463 | NM_001039583,NM | **PICK1** | protein interacting with P | protein_coding | 20 | 22 | 21 | 23 | 1.071 |
| 9464 | NM_021973 | **HAND2** | heart and neural crest de | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9465 | NM_001376570,NM | **AKAP7** | A-kinase anchoring prote | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 9466 | NM_004843 | **IL27RA** | interleukin 27 receptor su | protein_coding | 23 | 23 | 24 | 24 | 0.995 |
| 9467 | NM_001018009,NM | **SH3BP5** | SH3 domain binding pro | protein_coding | 12 | 14 | 13 | 15 | 1.156 |
| 9468 | NM_001163264,NM | **PCYT1B** | phosphate cytidylyltransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9469 | NM_004273,XM_00 | **CHST3** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9470 | NM_001276336,NM | **EIF4E2** | eukaryotic translation init | protein_coding | 164 | 172 | 165 | 173 | 1.045 |
| 9472 | NM_004274,XM_01 | **AKAP6** | A-kinase anchoring prote | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 9473 | NM_001039477,NM | **THEMIS2** | thymocyte selection assc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9474 | NM_001286106,NM | **ATG5** | autophagy related 5 | protein_coding | 41 | 38 | 42 | 39 | 0.946 |
| 9475 | NM_001321643,NM | **ROCK2** | Rho associated coiled-co | protein_coding | 12 | 10 | 13 | 11 | 0.844 |
| 9476 | NM_004851,XM_01 | **NAPSA** | napsin A aspartic peptid | protein_coding | 5 | 5 | 6 | 6 | 0.993 |
| 9477 | NM_001305455,NM | **MED20** | mediator complex subun | protein_coding | 50 | 52 | 51 | 53 | 1.056 |
| 9478 | NM_001033677,NM | **CABP1** | calcium binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9479 | NM_005456 | **MAPK8IP1** | mitogen-activated protein | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 9480 | NM_004852 | **ONECUT2** | one cut homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9481 | NM_001204051,NM | **SLC25A27** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9482 | NM_004853,NR_03 | **STX8** | syntaxin 8 | protein_coding | 23 | 27 | 24 | 28 | 1.135 |
| 9486 | NM_004854,XM_01 | **CHST10** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9487 | NM_004278,XM_01 | **PIGL** | phosphatidylinositol glyc | protein_coding | 5 | 5 | 6 | 6 | 0.985 |
| 9488 | NM_004855,XM_00 | **PIGB** | phosphatidylinositol glyc | protein_coding | 27 | 25 | 28 | 26 | 0.945 |
| 9489 | NM_024419,NR_11 | **PGS1** | phosphatidylglycerophos | protein_coding | 21 | 19 | 22 | 20 | 0.914 |
| 9491 | NM_001323407,NM | **PSMF1** | proteasome inhibitor sub | protein_coding | 47 | 49 | 48 | 50 | 1.034 |
| 9493 | NM_001281301,NM | **KIF23** | kinesin family member 2 | protein_coding | 85 | 79 | 86 | 80 | 0.934 |
| 9495 | NM_004857 | **AKAP5** | A-kinase anchoring prote | protein_coding | 1 | 1 | 2 | 2 | 0.915 |
| 9496 | NM_001321120,NM | **TBX4** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9497 | NM_001258379,NM | **SLC4A7** | solute carrier family 4 me | protein_coding | 41 | 31 | 42 | 32 | 0.761 |
| 9498 | NM_001039960,NM | **SLC4A8** | solute carrier family 4 me | protein_coding | 6 | 4 | 7 | 5 | 0.760 |
| 9499 | NM_001135940,NM | **MYOT** | myotilin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9500 | NM_001005332,NM | **MAGED1** | MAGE family member D1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9501 | NM_001190411,NM | **RPH3AL** | rabphilin 3A like (without | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9502 | NM_130777,XM_01 | **XAGE2** | X antigen family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9506 | NM_001318877,NM | **PAGE4** | PAGE family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9507 | NM_001320336,NM | **ADAMTS4** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 9508 | NM_014243,XM_01 | **ADAMTS3** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9509 | NM_014244,NM_02 | **ADAMTS2** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 9510 | NM_006988 | **ADAMTS1** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9512 | NM_004279,XM_00 | **PMPCB** | peptidase, mitochondrial | protein_coding | 57 | 57 | 58 | 58 | 1.002 |
| 9513 | NM_004860,XR_24 | **FXR2** | FMR1 autosomal homolo | protein_coding | 21 | 21 | 22 | 22 | 1.039 |
| 9514 | NM_001318103,NM | **GAL3ST1** | galactose-3-O-sulfotrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9515 | NM_001308330,NM | **STXBP5L** | syntaxin binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 9516 | NM_001136472,NM | **LITAF** | lipopolysaccharide induc | protein_coding | 22 | 23 | 23 | 24 | 1.031 |
| 9517 | NM_004863,XM_01 | **SPTLC2** | serine palmitoyltransfera | protein_coding | 39 | 35 | 40 | 36 | 0.898 |
| 9518 | NM_004864,XM_02 | **GDF15** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.212 |
| 9519 | NM_001253676,NM | **TBPL1** | TATA-box binding protein | protein_coding | 22 | 22 | 23 | 23 | 0.995 |
| 9520 | NM_001330257,NM | **NPEPPS** | aminopeptidase puromyc | protein_coding | 68 | 64 | 69 | 65 | 0.937 |
| 9521 | NM_001135650,NM | **EEF1E1** | eukaryotic translation elo | protein_coding | 191 | 181 | 192 | 182 | 0.948 |
| 9522 | NM_001290229,NM | **SCAMP1** | secretory carrier membra | protein_coding | 14 | 12 | 15 | 13 | 0.832 |
| 9524 | NM_001321170,NM | **TECR** | trans-2,3-enoyl-CoA redu | protein_coding | 90 | 98 | 91 | 99 | 1.087 |
| 9525 | NM_004869,XM_00 | **VPS4B** | vacuolar protein sorting 4 | protein_coding | 64 | 56 | 65 | 57 | 0.885 |
| 9526 | NM_001330073,NM | **MPDU1** | mannose-P-dolichol utiliz | protein_coding | 75 | 73 | 76 | 74 | 0.979 |
| 9527 | NM_001007024,NM | **GOSR1** | golgi SNAP receptor com | protein_coding | 43 | 40 | 44 | 41 | 0.929 |
| 9528 | NM_001305043,NM | **TMEM59** | transmembrane protein 5 | protein_coding | 43 | 39 | 44 | 40 | 0.915 |
| 9529 | NM_001015048,NM | **BAG5** | BAG cochaperone 5 | protein_coding | 41 | 38 | 42 | 39 | 0.942 |

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|---|---|---|---|---|---|---|---|---|---|
| 9530 | NM_001204878,NM | **BAG4** | BAG cochaperone 4 | protein_coding | 41 | 38 | 42 | 39 | 0.948 |
| 9531 | NM_004281,XM_00 | **BAG3** | BAG cochaperone 3 | protein_coding | 1 | 2 | 2 | 3 | 1.461 |
| 9532 | NM_004282,XM_00 | **BAG2** | BAG cochaperone 2 | protein_coding | 12 | 11 | 13 | 12 | 0.964 |
| 9533 | NM_001318876,NM | **POLR1C** | RNA polymerase I and III | protein_coding | 82 | 92 | 83 | 93 | 1.109 |
| 9534 | NM_001278661,NM | **ZNF254** | zinc finger protein 254 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9535 | NM_001301008,NM | **GMFG** | glia maturation factor ga | protein_coding | 109 | 114 | 110 | 115 | 1.044 |
| 9536 | NM_004878 | **PTGES** | prostaglandin E synthas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9537 | NM_001258320,NM | **TP53I11** | tumor protein p53 inducil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9538 | NM_001290135,NM | **EI24** | EI24 autophagy associat | protein_coding | 101 | 102 | 102 | 103 | 1.010 |
| 9540 | NM_001206802,NM | **TP53I3** | tumor protein p53 inducil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9541 | NM_004882 | **CIR1** | corepressor interacting w | protein_coding | 42 | 40 | 43 | 41 | 0.962 |
| 9542 | NM_001184935,NM | **NRG2** | neuregulin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9543 | NM_004884,XM_01 | **IGDCC3** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9545 | NM_004283 | **RAB3D** | RAB3D, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 9546 | NM_004886,XM_00 | **APBA3** | amyloid beta precursor p | protein_coding | 25 | 26 | 26 | 27 | 1.051 |
| 9547 | NM_004887 | **CXCL14** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9550 | NM_004888 | **ATP6V1G1** | ATPase H+ transporting | protein_coding | 113 | 114 | 114 | 115 | 1.011 |
| 9551 | NM_001003713,NM | **ATP5MF** | ATP synthase membrane | protein_coding | 869 | 887 | 870 | 888 | 1.020 |
| 9552 | NM_004890,XM_00 | **SPAG7** | sperm associated antige | protein_coding | 48 | 52 | 49 | 53 | 1.076 |
| 9553 | NM_004891,NM_14 | **MRPL33** | mitochondrial ribosomal | protein_coding | 188 | 162 | 189 | 163 | 0.863 |
| 9554 | NM_004892,XM_01 | **SEC22B** | SEC22 homolog B, vesic | protein_coding | 32 | 31 | 33 | 32 | 0.984 |
| 9555 | NM_001040158,NM | **MACROH2A1** | macroH2A.1 histone | protein_coding | 451 | 476 | 452 | 477 | 1.056 |
| 9556 | NM_001127393,NM | **ATP5MPL** | ATP synthase membrane | protein_coding | 204 | 216 | 205 | 217 | 1.057 |
| 9557 | NM_001256336,NM | **CHD1L** | chromodomain helicase l | protein_coding | 43 | 40 | 44 | 41 | 0.927 |
| 9559 | NM_001035260,NM | **VPS26A** | VPS26, retromer comple | protein_coding | 50 | 47 | 51 | 48 | 0.936 |
| 9560 | NM_001291468,NM | **CCL4L2** | C-C motif chemokine liga | protein_coding | 264 | 230 | 265 | 231 | 0.870 |
| 9562 | NM_001178117,NM | **MINPP1** | multiple inositol-polypho | protein_coding | 15 | 14 | 16 | 15 | 0.924 |
| 9563 | NM_001282587,NM | **H6PD** | hexose-6-phosphate deh | protein_coding | 1 | 1 | 2 | 2 | 0.958 |
| 9564 | NM_001170714,NM | **BCAR1** | BCAR1 scaffold protein, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9567 | NM_004286,XM_01 | **GTPBP1** | GTP binding protein 1 | protein_coding | 48 | 48 | 49 | 49 | 0.994 |
| 9568 | NM_005458,XM_00 | **GABBR2** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9569 | NM_001199207,NM | **GTF2IRD1** | GTF2I repeat domain co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9570 | NM_001012511,NM | **GOSR2** | golgi SNAP receptor com | protein_coding | 59 | 55 | 60 | 56 | 0.933 |
| 9572 | NM_021724 | **NR1D1** | nuclear receptor subfam | protein_coding | 7 | 7 | 8 | 8 | 0.983 |
| 9573 | NM_020634 | **GDF3** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9575 | NM_001267843,NM | **CLOCK** | clock circadian regulator | protein_coding | 6 | 6 | 7 | 7 | 0.932 |
| 9576 | NM_001253854,NM | **SPAG6** | sperm associated antige | protein_coding | 1 | 1 | 2 | 2 | 0.957 |
| 9577 | NM_001261840,NM | **BABAM2** | BRISC and BRCA1 A co | protein_coding | 30 | 30 | 31 | 31 | 0.997 |
| 9578 | NM_006035,XM_00 | **CDC42BPB** | CDC42 binding protein k | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9580 | NM_005686,XM_00 | **SOX13** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 9581 | NM_001042385,NM | **PREPL** | prolyl endopeptidase like | protein_coding | 39 | 35 | 40 | 36 | 0.902 |
| 9582 | NM_001270411,NM | **APOBEC3B** | apolipoprotein B mRNA e | protein_coding | 74 | 76 | 75 | 77 | 1.029 |
| 9583 | NM_001128930,NM | **ENTPD4** | ectonucleoside triphosph | protein_coding | 10 | 9 | 11 | 10 | 0.931 |
| 9584 | NM_001242599,NM | **RBM39** | RNA binding motif protei | protein_coding | 193 | 186 | 194 | 187 | 0.964 |
| 9585 | NM_001284259,NM | **KIF20B** | kinesin family member 2 | protein_coding | 47 | 34 | 48 | 35 | 0.744 |
| 9586 | NM_001011666,NM | **CREB5** | cAMP responsive elemer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9587 | NM_001003690,NM | **MAD2L1BP** | MAD2L1 binding protein | protein_coding | 83 | 84 | 84 | 85 | 1.020 |
| 9588 | NM_004905 | **PRDX6** | peroxiredoxin 6 | protein_coding | 264 | 276 | 265 | 277 | 1.047 |
| 9589 | NM_001270531,NM | **WTAP** | WT1 associated protein | protein_coding | 163 | 157 | 164 | 158 | 0.961 |
| 9590 | NM_001370346,NM | **AKAP12** | A-kinase anchoring prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9592 | NM_004907 | **IER2** | immediate early respons | protein_coding | 163 | 172 | 164 | 173 | 1.051 |
| 9595 | NM_004288,XM_01 | **CYTIP** | cytohesin 1 interacting p | protein_coding | 191 | 179 | 192 | 180 | 0.940 |
| 9597 | NR_026763 | **SMAD5-AS1** | SMAD5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 9600 | NM_001130848,NM | **PITPNM1** | phosphatidylinositol tran | protein_coding | 37 | 38 | 38 | 39 | 1.033 |
| 9601 | NM_001371244,NM | **PDIA4** | protein disulfide isomera | protein_coding | 223 | 226 | 224 | 227 | 1.016 |
| 9603 | NM_004289 | **NFE2L3** | nuclear factor, erythroid | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 9604 | NM_001201365,NM | **RNF14** | ring finger protein 14 | protein_coding | 34 | 30 | 35 | 31 | 0.885 |
| 9605 | NM_004913,XM_00 | **VPS9D1** | VPS9 domain containing | protein_coding | 4 | 3 | 5 | 4 | 0.868 |
| 9607 | NM_004291 | **CARTPT** | CART prepropeptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9609 | NM_001349877,NM | **RAB36** | RAB36, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9610 | NM_001363559,NM | **RIN1** | Ras and Rab interactor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 9611 | NM_001190438,NM | **NCOR1** | nuclear receptor corepre | protein_coding | 34 | 27 | 35 | 28 | 0.802 |
| 9612 | NM_001077261,NM | **NCOR2** | nuclear receptor corepre | protein_coding | 51 | 44 | 52 | 45 | 0.879 |
| 9615 | NM_001242505,NM | **GDA** | guanine deaminase | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 9616 | NM_001201370,NM | **RNF7** | ring finger protein 7 | protein_coding | 72 | 74 | 73 | 75 | 1.026 |
| 9617 | NM_001354073,NM | **MTRF1** | mitochondrial translation | protein_coding | 17 | 16 | 18 | 17 | 0.933 |
| 9618 | NM_004295,XM_01 | **TRAF4** | TNF receptor associated | protein_coding | 21 | 23 | 22 | 24 | 1.091 |
| 9619 | NM_004915,NM_01 | **ABCG1** | ATP binding cassette sul | protein_coding | 6 | 5 | 7 | 6 | 0.910 |
| 9620 | NM_001378328,NM | **CELSR1** | cadherin EGF LAG seve | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 9622 | NM_001302961,NM | **KLK4** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9623 | NM_004918 | **TCL1B** | TCL1 family AKT coactiva | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9625 | NM_001080395,NM | **AATK** | apoptosis associated tyr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9626 | NM_001363884,NM | **GUCA1C** | guanylate cyclase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9627 | NM_001242935,NM | **SNCAIP** | synuclein alpha interacti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9628 | NM_001204416,NM | **RGS6** | regulator of G protein sig | protein_coding | 7 | 6 | 8 | 7 | 0.908 |
| 9629 | NR_024604 | **CLCA3P** | chloride channel accesso | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 9630 | NM_004297,XM_01 | **GNA14** | G protein subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 9631 | NM_001278312,NM | **NUP155** | nucleoporin 155 | protein_coding | 46 | 38 | 47 | 39 | 0.837 |
| 9632 | NM_004922,NM_19 | **SEC24C** | SEC24 homolog C, COP | protein_coding | 93 | 92 | 94 | 93 | 0.981 |
| 9633 | NM_001039656,NM | **TESMIN** | testis expressed metallot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9635 | NM_006536,XM_01 | **CLCA2** | chloride channel accesso | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 9636 | NM_005101 | **ISG15** | ISG15 ubiquitin like mod | protein_coding | 337 | 347 | 338 | 348 | 1.030 |
| 9637 | NM_001042548,NM | **FEZ2** | fasciculation and elonga | protein_coding | 12 | 11 | 13 | 12 | 0.903 |
| 9638 | NM_005103,NM_02 | **FEZ1** | fasciculation and elonga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9639 | NM_001308152,NM | **ARHGEF10** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 9640 | NM_014630,XM_00 | **ZNF592** | zinc finger protein 592 | protein_coding | 29 | 29 | 30 | 30 | 1.001 |
| 9641 | NM_001193321,NM | **IKBKE** | inhibitor of nuclear factor | protein_coding | 15 | 16 | 16 | 17 | 1.085 |
| 9643 | NM_001142418,NM | **MORF4L2** | mortality factor 4 like 2 | protein_coding | 169 | 160 | 170 | 161 | 0.944 |
| 9644 | NM_001365079,NM | **SH3PXD2A** | SH3 and PX domains 2A | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 9645 | NM_001282663,NM | **MICAL2** | microtubule associated n | protein_coding | 18 | 14 | 19 | 15 | 0.809 |
| 9646 | NM_001346279,NM | **CTR9** | CTR9 homolog, Paf1/RN | protein_coding | 97 | 90 | 98 | 91 | 0.924 |
| 9647 | NM_014634,XM_01 | **PPM1F** | protein phosphatase, Mg | protein_coding | 13 | 11 | 14 | 12 | 0.903 |
| 9648 | NM_181453,NR_02 | **GCC2** | GRIP and coiled-coil dor | protein_coding | 20 | 15 | 21 | 16 | 0.756 |
| 9649 | NM_001190728,NM | **RALGPS1** | Ral GEF with PH domain | protein_coding | 2 | 1 | 3 | 2 | 0.579 |
| 9650 | NM_001145838,NM | **MTFR1** | mitochondrial fission reg | protein_coding | 14 | 12 | 15 | 13 | 0.856 |
| 9651 | NM_001303012,NM | **PLCH2** | phospholipase C eta 2 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 9652 | NM_014639,XR_00 | **TTC37** | tetratricopeptide repeat c | protein_coding | 37 | 31 | 38 | 32 | 0.846 |
| 9653 | NM_001134492,NM | **HS2ST1** | heparan sulfate 2-O-sulf | protein_coding | 38 | 33 | 39 | 34 | 0.873 |
| 9654 | NM_014640,XM_00 | **TTLL4** | tubulin tyrosine ligase lik | protein_coding | 31 | 28 | 32 | 29 | 0.885 |
| 9655 | NM_014011,NM_14 | **SOCS5** | suppressor of cytokine si | protein_coding | 7 | 6 | 8 | 7 | 0.809 |
| 9656 | NM_014641,XM_00 | **MDC1** | mediator of DNA damage | protein_coding | 34 | 35 | 35 | 36 | 1.014 |
| 9657 | NM_001023570,NM | **IQCB1** | IQ motif containing B1 | protein_coding | 64 | 59 | 65 | 60 | 0.917 |
| 9658 | NM_014643,XM_01 | **ZNF516** | zinc finger protein 516 | protein_coding | 2 | 2 | 3 | 3 | 1.034 |
| 9659 | NM_001002810,NM | **PDE4DIP** | phosphodiesterase 4D in | protein_coding | 12 | 8 | 13 | 9 | 0.687 |
| 9662 | NM_025009,XM_00 | **CEP135** | centrosomal protein 135 | protein_coding | 9 | 8 | 10 | 9 | 0.908 |
| 9663 | NM_001375808,NM | **LPIN2** | lipin 2 | protein_coding | 37 | 32 | 38 | 33 | 0.876 |
| 9665 | NM_001184998,NM | **MARF1** | meiosis regulator and mR | protein_coding | 11 | 9 | 12 | 10 | 0.890 |
| 9666 | NM_014648,XM_00 | **DZIP3** | DAZ interacting zinc fing | protein_coding | 18 | 17 | 19 | 18 | 0.918 |
| 9667 | NM_014649,XM_01 | **SAFB2** | scaffold attachment fact | protein_coding | 91 | 91 | 92 | 92 | 0.991 |
| 9668 | NM_001322284,NM | **ZNF432** | zinc finger protein 432 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9669 | NM_015904 | **EIF5B** | eukaryotic translation init | protein_coding | 157 | 145 | 158 | 146 | 0.928 |
| 9670 | NM_014652,XM_02 | **IPO13** | importin 13 | protein_coding | 31 | 34 | 32 | 35 | 1.079 |
| 9671 | NM_001304447,NM | **WSCD2** | WSC domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9672 | NM_014654,XM_01 | **SDC3** | syndecan 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9673 | NM_001286184,NM | **SLC25A44** | solute carrier family 25 m | protein_coding | 31 | 40 | 32 | 41 | 1.288 |
| 9674 | NM_001162893,NM | **KIAA0040** | KIAA0040 | protein_coding | 26 | 24 | 27 | 25 | 0.913 |
| 9675 | NM_001303457,NM | **TTI1** | TELO2 interacting protei | protein_coding | 52 | 50 | 53 | 51 | 0.964 |
| 9677 | NM_001130858,NM | **PPIP5K1** | diphosphoinositol pentak | protein_coding | 15 | 14 | 16 | 15 | 0.943 |
| 9678 | NM_001007157,NM | **PHF14** | PHD finger protein 14 | protein_coding | 34 | 23 | 35 | 24 | 0.686 |
| 9679 | NM_014661 | **FAM53B** | family with sequence sim | protein_coding | 18 | 18 | 19 | 19 | 1.015 |
| 9681 | NM_001007188,NM | **DEPDC5** | DEP domain containing 5 | protein_coding | 12 | 11 | 13 | 12 | 0.920 |
| 9682 | NM_014663,XM_00 | **KDM4A** | lysine demethylase 4A | protein_coding | 26 | 26 | 27 | 27 | 1.004 |
| 9683 | NM_153029,XM_01 | **N4BP1** | NEDD4 binding protein 1 | protein_coding | 38 | 31 | 39 | 32 | 0.833 |
| 9684 | NM_001272036,NM | **LRRC14** | leucine rich repeat conta | protein_coding | 10 | 11 | 11 | 12 | 1.073 |
| 9685 | NM_001195555,NM | **CLINT1** | clathrin interactor 1 | protein_coding | 94 | 89 | 95 | 90 | 0.945 |
| 9686 | NM_001128219,NM | **VGLL4** | vestigial like family meml | protein_coding | 13 | 12 | 14 | 13 | 0.920 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9687 | NM_014668,NM_03 | **GREB1** | growth regulating estrog | protein_coding | 2 | 2 | 3 | 3 | 0.789 |
| 9688 | NM_001242795,NM | **NUP93** | nucleoporin 93 | protein_coding | 33 | 33 | 34 | 34 | 0.996 |
| 9689 | NM_001207067,NM | **BZW1** | basic leucine zipper and | protein_coding | 263 | 230 | 264 | 231 | 0.875 |
| 9690 | NM_014671,XM_00 | **UBE3C** | ubiquitin protein ligase E | protein_coding | 73 | 70 | 74 | 71 | 0.961 |
| 9692 | NM_001256678,NM | **PRORP** | protein only RNase P cat | protein_coding | 28 | 18 | 29 | 19 | 0.641 |
| 9693 | NM_001351724,NM | **RAPGEF2** | Rap guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 9694 | NM_001329493,NM | **EMC2** | ER membrane protein co | protein_coding | 19 | 21 | 20 | 22 | 1.057 |
| 9695 | NM_014674,XM_01 | **EDEM1** | ER degradation enhancir | protein_coding | 35 | 29 | 36 | 30 | 0.834 |
| 9696 | NM_014675,XM_00 | **CROCC** | ciliary rootlet coiled-coil, | protein_coding | 1 | 1 | 2 | 2 | 0.960 |
| 9697 | NM_012288,XM_01 | **TRAM2** | translocation associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9698 | NM_001020658,NM | **PUM1** | pumilio RNA binding fam | protein_coding | 45 | 38 | 46 | 39 | 0.840 |
| 9699 | NM_001100117,NM | **RIMS2** | regulating synaptic mem | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 9700 | NM_012291,XM_00 | **ESPL1** | extra spindle pole bodies | protein_coding | 43 | 42 | 44 | 43 | 0.983 |
| 9701 | NM_001242898,NM | **PPP6R2** | protein phosphatase 6 re | protein_coding | 29 | 31 | 30 | 32 | 1.067 |
| 9702 | NM_001243776,NM | **CEP57** | centrosomal protein 57 | protein_coding | 56 | 50 | 57 | 51 | 0.893 |
| 9703 | NM_001321560,NM | **KIAA0100** | KIAA0100 | protein_coding | 94 | 84 | 95 | 85 | 0.898 |
| 9704 | NM_014681,XM_00 | **DHX34** | DExH-box helicase 34 | protein_coding | 23 | 24 | 24 | 25 | 1.043 |
| 9705 | NM_001352826,NM | **ST18** | ST18 C2H2C-type zinc fi | protein_coding | 5 | 5 | 6 | 6 | 0.965 |
| 9706 | NM_001142610,NM | **ULK2** | unc-51 like autophagy ac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9708 | NM_014004,NM_03 | **PCDHGA8** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.919 |
| 9709 | NM_001010989,NM | **HERPUD1** | homocysteine inducible I | protein_coding | 25 | 27 | 26 | 28 | 1.082 |
| 9710 | NM_014686 | **GARRE1** | granule associated Rac a | protein_coding | 6 | 5 | 7 | 6 | 0.869 |
| 9711 | NM_001145642,NM | **RUBCN** | rubicon autophagy regul | protein_coding | 24 | 22 | 25 | 23 | 0.938 |
| 9712 | NM_001080491,NM | **USP6NL** | USP6 N-terminal like | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 9715 | NM_001031690,NM | **FAM131B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9716 | NM_014691 | **AQR** | aquarius intron-binding s | protein_coding | 35 | 30 | 36 | 31 | 0.872 |
| 9717 | NM_014692,XM_02 | **SEC14L5** | SEC14 like lipid binding | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 9718 | NM_001037324,NM | **ECE2** | endothelin converting en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9719 | NM_001145320,NM | **ADAMTSL2** | ADAMTS like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9720 | NM_001382000,NM | **CCDC144A** | coiled-coil domain contai | protein_coding | 5 | 3 | 6 | 4 | 0.646 |
| 9721 | NM_014696,XM_00 | **GPRIN2** | G protein regulated indu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9722 | NM_001126060,NM | **NOS1AP** | nitric oxide synthase 1 ac | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 9723 | NM_001178129,NM | **SEMA3E** | semaphorin 3E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9724 | NM_021645 | **UTP14C** | UTP14C small subunit p | protein_coding | 2 | 2 | 3 | 3 | 1.078 |
| 9725 | NM_014698,XM_00 | **TMEM63A** | transmembrane protein 6 | protein_coding | 4 | 4 | 5 | 5 | 1.037 |
| 9726 | NM_014699,XM_00 | **ZNF646** | zinc finger protein 646 | protein_coding | 23 | 23 | 24 | 24 | 0.983 |
| 9727 | NM_001142272,NM | **RAB11FIP3** | RAB11 family interacting | protein_coding | 19 | 20 | 20 | 21 | 1.041 |
| 9728 | NM_001193489,NM | **SECISBP2L** | SECIS binding protein 2 | protein_coding | 20 | 16 | 21 | 17 | 0.816 |
| 9729 | NM_014702 | **KIAA0408** | KIAA0408 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9730 | NM_001171904,NM | **DCAF1** | DDB1 and CUL4 associa | protein_coding | 38 | 30 | 39 | 31 | 0.786 |
| 9731 | NM_014704,XM_00 | **CEP104** | centrosomal protein 104 | protein_coding | 16 | 16 | 17 | 17 | 1.030 |
| 9732 | NM_001363540,NM | **DOCK4** | dedicator of cytokinesis 4 | protein_coding | 0 | 0 | 1 | 1 | 0.884 |
| 9733 | NM_014706,XM_00 | **SART3** | spliceosome associated t | protein_coding | 69 | 67 | 70 | 68 | 0.976 |
| 9734 | NM_001204144,NM | **HDAC9** | histone deacetylase 9 | protein_coding | 25 | 18 | 26 | 19 | 0.738 |
| 9735 | NM_014708,XM_00 | **KNTC1** | kinetochore associated 1 | protein_coding | 35 | 28 | 36 | 29 | 0.793 |
| 9736 | NM_014709 | **USP34** | ubiquitin specific peptida | protein_coding | 21 | 17 | 22 | 18 | 0.834 |
| 9737 | NM_001099410,NM | **GPRASP1** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9738 | NM_001199022,NM | **CCP110** | centriolar coiled-coil prot | protein_coding | 42 | 37 | 43 | 38 | 0.871 |
| 9739 | NM_014712,XM_00 | **SETD1A** | SET domain containing 1 | protein_coding | 29 | 28 | 30 | 29 | 0.950 |
| 9741 | NM_014713 | **LAPTM4A** | lysosomal protein transm | protein_coding | 48 | 50 | 49 | 51 | 1.030 |
| 9742 | NM_014714,XM_00 | **IFT140** | intraflagellar transport 14 | protein_coding | 2 | 2 | 3 | 3 | 0.890 |
| 9743 | NM_001142685,NM | **ARHGAP32** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 9744 | NM_014716,XM_02 | **ACAP1** | ArfGAP with coiled-coil, a | protein_coding | 43 | 46 | 44 | 47 | 1.064 |
| 9745 | NM_001352260,NM | **ZNF536** | zinc finger protein 536 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9746 | NM_014718,XM_00 | **CLSTN3** | calsyntenin 3 | protein_coding | 22 | 17 | 23 | 18 | 0.783 |
| 9747 | NM_001206938,NM | **TCAF1** | TRPM8 channel associat | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 9748 | NM_001304743,NM | **SLK** | STE20 like kinase | protein_coding | 39 | 33 | 40 | 34 | 0.859 |
| 9749 | NM_001100164,NM | **PHACTR2** | phosphatase and actin re | protein_coding | 2 | 1 | 3 | 2 | 0.816 |
| 9750 | NM_001286445,NM | **RIPOR2** | RHO family interacting ca | protein_coding | 16 | 14 | 17 | 15 | 0.861 |
| 9751 | NM_001318234,NM | **SNPH** | syntaphilin | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 9752 | NM_014005,NM_03 | **PCDHA9** | protocadherin alpha 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9753 | NM_001163391,NM | **ZSCAN12** | zinc finger and SCAN do | protein_coding | 5 | 6 | 6 | 7 | 1.112 |
| 9754 | NM_001142503,NM | **STARD8** | StAR related lipid transfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9755 | NM_014726,XM_00 | **TBKBP1** | TBK1 binding protein 1 | protein_coding | 3 | 5 | 4 | 6 | 1.340 |
| 9757 | NM_014727,XM_01 | **KMT2B** | lysine methyltransferase | protein_coding | 28 | 27 | 29 | 28 | 0.947 |
| 9758 | NM_001368395,NM | **FRMPD4** | FERM and PDZ domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9759 | NM_001378414,NM | **HDAC4** | histone deacetylase 4 | protein_coding | 12 | 11 | 13 | 12 | 0.907 |
| 9760 | NM_014729,XM_01 | **TOX** | thymocyte selection assc | protein_coding | 92 | 86 | 93 | 87 | 0.940 |
| 9761 | NM_001303627,NM | **MLEC** | malectin | protein_coding | 92 | 89 | 93 | 90 | 0.970 |
| 9762 | NM_001282533,NM | **LZTS3** | leucine zipper tumor sup | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 9764 | NM_001286565,NM | **KIAA0513** | KIAA0513 | protein_coding | 2 | 1 | 3 | 2 | 0.838 |
| 9765 | NM_001105251,NM | **ZFYVE16** | zinc finger FYVE-type co | protein_coding | 7 | 6 | 8 | 7 | 0.917 |
| 9766 | NM_014734 | **SUSD6** | sushi domain containing | protein_coding | 32 | 28 | 33 | 29 | 0.892 |
| 9767 | NM_001077445,NM | **JADE3** | jade family PHD finger 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9768 | NM_001029989,NM | **PCLAF** | PCNA clamp associated | protein_coding | 235 | 226 | 236 | 227 | 0.962 |
| 9770 | NM_014737,NM_17 | **RASSF2** | Ras association domain f | protein_coding | 0 | 0 | 1 | 1 | 0.868 |
| 9771 | NM_001367600,NM | **RAPGEF5** | Rap guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9772 | NM_001321148,NM | **TMEM94** | transmembrane protein 9 | protein_coding | 19 | 19 | 20 | 20 | 1.001 |
| 9774 | NM_001077440,NM | **BCLAF1** | BCL2 associated transcri | protein_coding | 83 | 88 | 84 | 89 | 1.062 |
| 9775 | NM_014740,XM_01 | **EIF4A3** | eukaryotic translation init | protein_coding | 173 | 187 | 174 | 188 | 1.084 |
| 9776 | NM_001142673,NM | **ATG13** | autophagy related 13 | protein_coding | 23 | 23 | 24 | 24 | 1.007 |
| 9777 | NM_001363731,NM | **TM9SF4** | transmembrane 9 superf | protein_coding | 62 | 57 | 63 | 58 | 0.928 |
| 9778 | NM_001100590,NM | **KIAA0232** | KIAA0232 | protein_coding | 10 | 8 | 11 | 9 | 0.819 |
| 9779 | NM_001134381,NM | **TBC1D5** | TBC1 domain family mer | protein_coding | 19 | 16 | 20 | 17 | 0.852 |
| 9780 | NM_001142864 | **PIEZO1** | piezo type mechanosens | protein_coding | 26 | 25 | 27 | 26 | 0.954 |
| 9781 | NM_001349181,NM | **RNF144A** | ring finger protein 144A | protein_coding | 0 | 0 | 1 | 1 | 0.845 |
| 9782 | NM_001194954,NM | **MATR3** | matrin 3 | protein_coding | 234 | 215 | 235 | 216 | 0.916 |
| 9783 | NM_014747,XM_01 | **RIMS3** | regulating synaptic mem | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 9784 | NM_001267059,NM | **SNX17** | sorting nexin 17 | protein_coding | 43 | 48 | 44 | 49 | 1.092 |
| 9785 | NM_014003,XM_00 | **DHX38** | DEAH-box helicase 38 | protein_coding | 63 | 64 | 64 | 65 | 1.020 |
| 9786 | NM_001244189,NM | **KIAA0586** | KIAA0586 | protein_coding | 9 | 6 | 10 | 7 | 0.695 |
| 9787 | NM_001146015,NM | **DLGAP5** | DLG associated protein 5 | protein_coding | 91 | 73 | 92 | 74 | 0.803 |
| 9788 | NM_001282971,NM | **MTSS1** | MTSS I-BAR domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9789 | NM_014752 | **SPCS2** | signal peptidase comple | protein_coding | 136 | 129 | 137 | 130 | 0.950 |
| 9790 | NM_014753,XM_00 | **BMS1** | BMS1 ribosome biogene | protein_coding | 95 | 85 | 96 | 86 | 0.894 |
| 9791 | NM_001290225,NM | **PTDSS1** | phosphatidylserine synth | protein_coding | 161 | 159 | 162 | 160 | 0.987 |
| 9792 | NM_014755,XM_00 | **SERTAD2** | SERTA domain containin | protein_coding | 10 | 9 | 11 | 10 | 0.951 |
| 9793 | NM_001008938,NM | **CKAP5** | cytoskeleton associated | protein_coding | 142 | 123 | 143 | 124 | 0.866 |
| 9794 | NM_014757 | **MAML1** | mastermind like transcrip | protein_coding | 29 | 26 | 30 | 27 | 0.900 |
| 9796 | NM_001099335,NM | **PHYHIP** | phytanoyl-CoA 2-hydroxy | protein_coding | 0 | 0 | 1 | 1 | 1.125 |
| 9797 | NM_014760 | **TATDN2** | TatD DNase domain con | protein_coding | 52 | 46 | 53 | 47 | 0.889 |
| 9798 | NM_001270975,NM | **IST1** | IST1 factor associated wi | protein_coding | 54 | 51 | 55 | 52 | 0.946 |
| 9801 | NM_014763 | **MRPL19** | mitochondrial ribosomal | protein_coding | 20 | 18 | 21 | 19 | 0.887 |
| 9802 | NM_001136264,NM | **DAZAP2** | DAZ associated protein 2 | protein_coding | 137 | 132 | 138 | 133 | 0.966 |
| 9804 | NM_014765 | **TOMM20** | translocase of outer mito | protein_coding | 95 | 87 | 96 | 88 | 0.910 |
| 9805 | NM_001145513,NM | **SCRN1** | secernin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9806 | NM_001134434,NM | **SPOCK2** | SPARC (osteonectin), cw | protein_coding | 2 | 2 | 3 | 3 | 0.906 |
| 9807 | NM_001006115,NM | **IP6K1** | inositol hexakisphosphat | protein_coding | 32 | 31 | 33 | 32 | 0.975 |
| 9808 | NR_022006 | **KIAA0087** | KIAA0087 lncRNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 9810 | NM_001207033,NM | **RNF40** | ring finger protein 40 | protein_coding | 89 | 89 | 90 | 90 | 1.004 |
| 9811 | NM_001142397,NM | **CTIF** | cap binding complex dep | protein_coding | 18 | 18 | 19 | 19 | 1.039 |
| 9812 | NM_001142603,NM | **DELE1** | DAP3 binding cell death | protein_coding | 29 | 30 | 30 | 31 | 1.029 |
| 9813 | NM_014774 | **EFCAB14** | EF-hand calcium bindinç | protein_coding | 50 | 46 | 51 | 47 | 0.927 |
| 9814 | NM_001007467,NM | **SFI1** | SFI1 centrin binding prot | protein_coding | 15 | 14 | 16 | 15 | 0.935 |
| 9815 | NM_001135213,NM | **GIT2** | GIT ArfGAP 2 | protein_coding | 32 | 32 | 33 | 33 | 1.000 |
| 9816 | NM_001314021,NM | **URB2** | URB2 ribosome biogene | protein_coding | 39 | 37 | 40 | 38 | 0.956 |
| 9817 | NM_012289,NM_20 | **KEAP1** | kelch like ECH associate | protein_coding | 148 | 160 | 149 | 161 | 1.085 |
| 9818 | NM_001008564,NM | **NUP58** | nucleoporin 58 | protein_coding | 133 | 114 | 134 | 115 | 0.856 |
| 9819 | NM_001303264,NM | **TSC22D2** | TSC22 domain family me | protein_coding | 6 | 4 | 7 | 5 | 0.756 |
| 9820 | NM_001168370,NM | **CUL7** | cullin 7 | protein_coding | 4 | 4 | 5 | 5 | 0.973 |
| 9821 | NM_001083617,NM | **RB1CC1** | RB1 inducible coiled-coil | protein_coding | 18 | 15 | 19 | 16 | 0.847 |
| 9823 | NM_001282231,NM | **ARMCX2** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9824 | NM_001286479,NM | **ARHGAP11A** | Rho GTPase activating p | protein_coding | 145 | 119 | 146 | 120 | 0.824 |
| 9825 | NM_001135773,NM | **SPATA2** | spermatogenesis associa | protein_coding | 20 | 21 | 21 | 22 | 1.068 |
| 9826 | NM_001377418,NM | **ARHGEF11** | Rho guanine nucleotide | protein_coding | 1 | 1 | 2 | 2 | 1.047 |
| 9827 | NM_001080496 | **RGP1** | RGP1 homolog, RAB6A | protein_coding | 17 | 16 | 18 | 17 | 0.904 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9828 | NM_014786,XM_01 | **ARHGEF17** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 0.916 |
| 9829 | NM_001256864,NM | **DNAJC6** | DnaJ heat shock protein | protein_coding | 13 | 10 | 14 | 11 | 0.777 |
| 9830 | NM_014788,NM_03 | **TRIM14** | tripartite motif containing | protein_coding | 63 | 58 | 64 | 59 | 0.913 |
| 9831 | NM_001082480,NM | **ZNF623** | zinc finger protein 623 | protein_coding | 5 | 5 | 6 | 6 | 0.942 |
| 9832 | NM_001270934,NM | **JAKMIP2** | janus kinase and microt | protein_coding | 5 | 5 | 6 | 6 | 0.914 |
| 9833 | NM_001256685,NM | **MELK** | maternal embryonic leuc | protein_coding | 76 | 61 | 77 | 62 | 0.802 |
| 9834 | NR_026800 | **FAM30A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 0.939 |
| 9836 | NM_014793 | **LCMT2** | leucine carboxyl methylt | protein_coding | 13 | 13 | 14 | 14 | 0.975 |
| 9837 | NM_021067,NR_13 | **GINS1** | GINS complex subunit 1 | protein_coding | 66 | 59 | 67 | 60 | 0.892 |
| 9839 | NM_001171653,NM | **ZEB2** | zinc finger E-box binding | protein_coding | 6 | 5 | 7 | 6 | 0.837 |
| 9840 | NM_001098815,NM | **TESPA1** | thymocyte expressed, po | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 9841 | NM_001164313,NM | **ZBTB24** | zinc finger and BTB dom | protein_coding | 19 | 15 | 20 | 16 | 0.818 |
| 9842 | NM_001352825,NM | **PLEKHM1** | pleckstrin homology and | protein_coding | 15 | 15 | 16 | 16 | 1.016 |
| 9843 | NM_001130860,NM | **HEPH** | hephaestin | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 9844 | NM_001039459,NM | **ELMO1** | engulfment and cell moti | protein_coding | 26 | 27 | 27 | 28 | 1.036 |
| 9846 | NM_012296,NM_08 | **GAB2** | GRB2 associated bindin | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 9847 | NM_001286173,NM | **C2CD5** | C2 calcium dependent d | protein_coding | 18 | 16 | 19 | 17 | 0.890 |
| 9848 | NM_001009554,NM | **MFAP3L** | microfibril associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9849 | NM_001278524,NM | **ZNF518A** | zinc finger protein 518A | protein_coding | 6 | 5 | 7 | 6 | 0.866 |
| 9851 | NM_001351225,NM | **KIAA0753** | KIAA0753 | protein_coding | 6 | 7 | 7 | 8 | 1.047 |
| 9852 | NM_014805 | **EPM2AIP1** | EPM2A interacting protei | protein_coding | 9 | 8 | 10 | 9 | 0.904 |
| 9853 | NM_001135999,NM | **RUSC2** | RUN and SH3 domain co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9854 | NM_001290474,NM | **C2CD2L** | C2CD2 like | protein_coding | 16 | 16 | 17 | 17 | 1.000 |
| 9855 | NM_001282983,NM | **FARP2** | FERM, ARH/RhoGEF an | protein_coding | 11 | 5 | 12 | 6 | 0.456 |
| 9856 | NM_001168374,NM | **KIAA0319** | KIAA0319 | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 9857 | NM_014810,XM_01 | **CEP350** | centrosomal protein 350 | protein_coding | 25 | 19 | 26 | 20 | 0.772 |
| 9858 | NM_014811,XM_00 | **PPP1R26** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9859 | NM_001042404,NM | **CEP170** | centrosomal protein 170 | protein_coding | 4 | 3 | 5 | 4 | 0.832 |
| 9860 | NM_001312686,NM | **LRIG2** | leucine rich repeats and | protein_coding | 8 | 7 | 9 | 8 | 0.854 |
| 9861 | NM_001271779,NM | **PSMD6** | proteasome 26S subunit | protein_coding | 182 | 172 | 183 | 173 | 0.947 |
| 9862 | NM_001079518,NM | **MED24** | mediator complex subun | protein_coding | 74 | 76 | 75 | 77 | 1.036 |
| 9863 | NM_001301128,NM | **MAGI2** | membrane associated gu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9865 | NM_014817 | **TRIL** | TLR4 interactor with leuc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9866 | NM_014818,XM_00 | **TRIM66** | tripartite motif containing | protein_coding | 4 | 4 | 5 | 5 | 0.985 |
| 9867 | NM_014819,XM_01 | **PJA2** | praja ring finger ubiquitin | protein_coding | 74 | 67 | 75 | 68 | 0.902 |
| 9868 | NM_014820 | **TOMM70** | translocase of outer mito | protein_coding | 113 | 100 | 114 | 101 | 0.881 |
| 9869 | NM_001145415,NM | **SETDB1** | SET domain bifurcated h | protein_coding | 22 | 21 | 23 | 22 | 0.966 |
| 9870 | NM_001039479,XM | **AREL1** | apoptosis resistant E3 ub | protein_coding | 27 | 24 | 28 | 25 | 0.907 |
| 9871 | NM_001318066,NM | **SEC24D** | SEC24 homolog D, COP | protein_coding | 19 | 19 | 20 | 20 | 0.980 |
| 9873 | NM_014824,XM_01 | **FCHSD2** | FCH and double SH3 do | protein_coding | 32 | 29 | 33 | 30 | 0.902 |
| 9874 | NM_001136554,NM | **TLK1** | tousled like kinase 1 | protein_coding | 53 | 47 | 54 | 48 | 0.895 |
| 9875 | NM_014825 | **URB1** | URB1 ribosome biogenes | protein_coding | 33 | 30 | 34 | 31 | 0.918 |
| 9877 | NM_001319238,NM | **ZC3H11A** | zinc finger CCCH-type co | protein_coding | 69 | 62 | 70 | 63 | 0.901 |
| 9878 | NM_001303523,NM | **TOX4** | TOX high mobility group | protein_coding | 42 | 40 | 43 | 41 | 0.955 |
| 9879 | NM_001300860,NM | **DDX46** | DEAD-box helicase 46 | protein_coding | 95 | 79 | 96 | 80 | 0.824 |
| 9880 | NM_014830 | **ZBTB39** | zinc finger and BTB dom | protein_coding | 11 | 10 | 12 | 11 | 0.872 |
| 9881 | NM_001329998,NM | **TRANK1** | tetratricopeptide repeat a | protein_coding | 5 | 4 | 6 | 5 | 0.935 |
| 9882 | NM_001286658,NM | **TBC1D4** | TBC1 domain family mer | protein_coding | 33 | 25 | 34 | 26 | 0.775 |
| 9883 | NM_001257190,NM | **POM121** | POM121 transmembrane | protein_coding | 77 | 76 | 78 | 77 | 0.988 |
| 9884 | NM_014834 | **LRRC37A** | leucine rich repeat conta | protein_coding | 2 | 2 | 3 | 3 | 0.965 |
| 9885 | NM_001278649,NM | **OSBPL2** | oxysterol binding protein | protein_coding | 19 | 18 | 20 | 19 | 0.926 |
| 9886 | NM_001242359,NM | **RHOBTB1** | Rho related BTB domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9887 | NM_001174061,NM | **SMG7** | SMG7 nonsense mediate | protein_coding | 113 | 97 | 114 | 98 | 0.860 |
| 9889 | NM_014838,XM_02 | **ZBED4** | zinc finger BED-type con | protein_coding | 21 | 18 | 22 | 19 | 0.839 |
| 9890 | NM_001166252,NM | **PLPPR4** | phospholipid phosphata | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9891 | NM_014840 | **NUAK1** | NUAK family kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9892 | NM_001242792,NM | **SNAP91** | synaptosome associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9894 | NM_001351846,NM | **TELO2** | telomere maintenance 2 | protein_coding | 35 | 40 | 36 | 41 | 1.129 |
| 9895 | NM_001172631,NM | **TECPR2** | tectonin beta-propeller re | protein_coding | 1 | 1 | 2 | 2 | 1.073 |
| 9896 | NM_014845,XM_01 | **FIG4** | FIG4 phosphoinositide 5 | protein_coding | 8 | 6 | 9 | 7 | 0.813 |
| 9897 | NM_001330609,NM | **WASHC5** | WASH complex subunit 5 | protein_coding | 17 | 16 | 18 | 17 | 0.976 |
| 9898 | NM_001127320,NM | **UBAP2L** | ubiquitin associated prot | protein_coding | 159 | 159 | 160 | 160 | 0.997 |
| 9899 | NM_001167580,NM | **SV2B** | synaptic vesicle glycoprc | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 9900 | NM_001278719,NM | **SV2A** | synaptic vesicle glycoprc | protein_coding | 42 | 41 | 43 | 42 | 0.982 |
| 9901 | NM_001033117,NM | **SRGAP3** | SLIT-ROBO Rho GTPase | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 9902 | NM_006039,XM_01 | **MRC2** | mannose receptor C type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9903 | NM_001324309,NM | **KLHL21** | kelch like family member | protein_coding | 14 | 14 | 15 | 15 | 1.001 |
| 9904 | NM_001146698,NM | **RBM19** | RNA binding motif protei | protein_coding | 39 | 35 | 40 | 36 | 0.890 |
| 9905 | NM_001098509,NM | **SGSM2** | small G protein signaling | protein_coding | 8 | 8 | 9 | 9 | 1.077 |
| 9906 | NM_001199787,NM | **SLC35E2A** | solute carrier family 35 m | protein_coding | 7 | 7 | 8 | 8 | 1.021 |
| 9907 | NM_001364858,NM | **AP5Z1** | adaptor related protein c | protein_coding | 10 | 12 | 11 | 13 | 1.121 |
| 9908 | NM_012297,NM_20 | **G3BP2** | G3BP stress granule ass | protein_coding | 161 | 147 | 162 | 148 | 0.909 |
| 9909 | NM_001367466,NM | **DENND4B** | DENN domain containing | protein_coding | 68 | 69 | 69 | 70 | 1.018 |
| 9910 | NM_001035230,NM | **RABGAP1L** | RAB GTPase activating p | protein_coding | 12 | 13 | 13 | 14 | 1.125 |
| 9911 | NM_001242925,NM | **TMCC2** | transmembrane and coil | protein_coding | 1 | 0 | 2 | 1 | 0.936 |
| 9912 | NM_001321164,NM | **ARHGAP44** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9913 | NM_001282729,NM | **SUPT7L** | SPT7 like, STAGA compl | protein_coding | 10 | 11 | 11 | 12 | 1.025 |
| 9914 | NM_001286527,NM | **ATP2C2** | ATPase secretory pathwa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9915 | NM_014862 | **ARNT2** | aryl hydrocarbon receptc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9917 | NM_001324310,NM | **FAM20B** | FAM20B glycosaminogly | protein_coding | 22 | 20 | 23 | 21 | 0.897 |
| 9918 | NM_014865 | **NCAPD2** | non-SMC condensin I co | protein_coding | 89 | 83 | 90 | 84 | 0.931 |
| 9919 | NM_001276418,NM | **SEC16A** | SEC16 homolog A, endo | protein_coding | 52 | 46 | 53 | 47 | 0.888 |
| 9920 | NM_014867,XM_01 | **KBTBD11** | kelch repeat and BTB do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9921 | NM_001330474,NM | **RNF10** | ring finger protein 10 | protein_coding | 55 | 52 | 56 | 53 | 0.957 |
| 9922 | NM_001134382,NM | **IQSEC1** | IQ motif and Sec7 domai | protein_coding | 17 | 17 | 18 | 18 | 1.017 |
| 9923 | NM_001083621,NM | **ZBTB40** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 9924 | NM_001127460,NM | **PAN2** | poly(A) specific ribonucle | protein_coding | 5 | 5 | 6 | 6 | 1.066 |
| 9925 | NM_014872,XM_00 | **ZBTB5** | zinc finger and BTB dom | protein_coding | 10 | 9 | 11 | 10 | 0.876 |
| 9926 | NM_001320808,NM | **LPGAT1** | lysophosphatidylglycerol | protein_coding | 13 | 10 | 14 | 11 | 0.836 |
| 9927 | NM_001127660,NM | **MFN2** | mitofusin 2 | protein_coding | 134 | 131 | 135 | 132 | 0.978 |
| 9928 | NM_001305792,NM | **KIF14** | kinesin family member 14 | protein_coding | 59 | 45 | 60 | 46 | 0.766 |
| 9929 | NM_001360235,NM | **JOSD1** | Josephin domain contain | protein_coding | 70 | 71 | 71 | 72 | 1.016 |
| 9931 | NM_001330447,NM | **HELZ** | helicase with zinc finger | protein_coding | 29 | 24 | 30 | 25 | 0.816 |
| 9933 | NM_014878 | **PUM3** | pumilio RNA binding fam | protein_coding | 102 | 98 | 103 | 99 | 0.960 |
| 9934 | NM_001081455,NM | **P2RY14** | purinergic receptor P2Y1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9935 | NM_005461 | **MAFB** | MAF bZIP transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9936 | NM_001198763,NM | **CD302** | CD302 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.920 |
| 9937 | NM_001271816,NM | **DCLRE1A** | DNA cross-link repair 1A | protein_coding | 27 | 20 | 28 | 21 | 0.736 |
| 9938 | NM_001007231,NM | **ARHGAP25** | Rho GTPase activating p | protein_coding | 107 | 104 | 108 | 105 | 0.974 |
| 9939 | NM_005105 | **RBM8A** | RNA binding motif protei | protein_coding | 144 | 150 | 145 | 151 | 1.042 |
| 9940 | NM_001321153,NM | **DLEC1** | DLEC1 cilia and flagella | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9941 | NM_001145464,NM | **EXOG** | exo/endonuclease G | protein_coding | 14 | 15 | 15 | 16 | 1.078 |
| 9942 | NM_001349178,NM | **XYLB** | xylulokinase | protein_coding | 2 | 2 | 3 | 3 | 1.107 |
| 9943 | NM_005109,XM_00 | **OXSR1** | oxidative stress responsi | protein_coding | 52 | 44 | 53 | 45 | 0.859 |
| 9945 | NM_005110 | **GFPT2** | glutamine-fructose-6-pho | protein_coding | 0 | 0 | 1 | 1 | 1.403 |
| 9946 | NM_145858 | **CRYZL1** | crystallin zeta like 1 | protein_coding | 11 | 12 | 12 | 13 | 1.063 |
| 9947 | NM_005462,XM_01 | **MAGEC1** | MAGE family member C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9948 | NM_005112,NM_01 | **WDR1** | WD repeat domain 1 | protein_coding | 695 | 713 | 696 | 714 | 1.026 |
| 9949 | NM_001025580,NM | **AMMECR1** | AMMECR nuclear protein | protein_coding | 21 | 16 | 22 | 17 | 0.754 |
| 9950 | NM_005113,XM_01 | **GOLGA5** | golgin A5 | protein_coding | 25 | 24 | 26 | 25 | 0.991 |
| 9951 | NM_006040 | **HS3ST4** | heparan sulfate-glucosa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9953 | NM_006041,NR_13 | **HS3ST3B1** | heparan sulfate-glucosa | protein_coding | 5 | 4 | 6 | 5 | 0.955 |
| 9955 | NM_006042,XM_01 | **HS3ST3A1** | heparan sulfate-glucosa | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 9956 | NM_006043,XM_01 | **HS3ST2** | heparan sulfate-glucosa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9957 | NM_005114,XM_01 | **HS3ST1** | heparan sulfate-glucosa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9958 | NM_001252078,NM | **USP15** | ubiquitin specific peptida | protein_coding | 20 | 19 | 21 | 20 | 0.968 |
| 9959 | gene-USP12P1 | **USP12P1** | USP12 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.878 |
| 9960 | NM_001256702,NM | **USP3** | ubiquitin specific peptida | protein_coding | 17 | 17 | 18 | 18 | 0.991 |
| 9961 | NM_001293204,NM | **MVP** | major vault protein | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 9962 | NM_005116,NM_20 | **SLC23A2** | solute carrier family 23 m | protein_coding | 18 | 15 | 19 | 16 | 0.825 |
| 9963 | NM_005847,NM_15 | **SLC23A1** | solute carrier family 23 m | protein_coding | 1 | 1 | 2 | 2 | 0.894 |
| 9964 | gene-MYCLP3 | **MYCLP3** | MYCL pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 9965 | NM_005117 | **FGF19** | fibroblast growth factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9966 | NM_001204344,NM | **TNFSF15** | TNF superfamily membe | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 9967 | NM_001321471,NM | **THRAP3** | thyroid hormone recepto | protein_coding | 163 | 150 | 164 | 151 | 0.926 |
| 9968 | NM_005120 | **MED12** | mediator complex subun | protein_coding | 23 | 22 | 24 | 23 | 0.942 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9969 | NM_005121,XM_01: | **MED13** | mediator complex subun | protein_coding | 34 | 29 | 35 | 30 | 0.858 |
| 9970 | NM_001077469,NM | **NR1I3** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9971 | NM_001206977,NM | **NR1H4** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9972 | NM_001278209,NM | **NUP153** | nucleoporin 153 | protein_coding | 122 | 105 | 123 | 106 | 0.857 |
| 9973 | NM_005125,XR_247 | **CCS** | copper chaperone for su | protein_coding | 15 | 16 | 16 | 17 | 1.117 |
| 9975 | NM_001145425,NM | **NR1D2** | nuclear receptor subfam | protein_coding | 6 | 5 | 7 | 6 | 0.923 |
| 9976 | NM_005127 | **CLEC2B** | C-type lectin domain fan | protein_coding | 20 | 18 | 21 | 19 | 0.872 |
| 9978 | NM_014248 | **RBX1** | ring-box 1 | protein_coding | 96 | 92 | 97 | 93 | 0.957 |
| 9980 | NM_001320714,NM | **DOP1B** | DOP1 leucine zipper like | protein_coding | 1 | 1 | 2 | 2 | 0.818 |
| 9982 | NM_005130 | **FGFBP1** | fibroblast growth factor b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 9984 | NM_005131,XM_01: | **THOC1** | THO complex 1 | protein_coding | 33 | 27 | 34 | 28 | 0.824 |
| 9985 | NM_001048205,NM | **REC8** | REC8 meiotic recombina | protein_coding | 1 | 2 | 2 | 3 | 1.248 |
| 9986 | NM_001032279,NM | **RCE1** | Ras converting CAAX en | protein_coding | 31 | 33 | 32 | 34 | 1.081 |
| 9987 | NM_001207000,NM | **HNRNPDL** | heterogeneous nuclear r | protein_coding | 222 | 228 | 223 | 229 | 1.030 |
| 9988 | NM_001142326,NM | **DMTF1** | cyclin D binding myb like | protein_coding | 27 | 24 | 28 | 25 | 0.925 |
| 9989 | NM_001042388,NM | **PPP4R1** | protein phosphatase 4 re | protein_coding | 35 | 36 | 36 | 37 | 1.015 |
| 9990 | NM_001042494,NM | **SLC12A6** | solute carrier family 12 m | protein_coding | 2 | 2 | 3 | 3 | 1.026 |
| 9991 | NM_001163788,NM | **PTBP3** | polypyrimidine tract bind | protein_coding | 95 | 78 | 96 | 79 | 0.826 |
| 9992 | NM_172201 | **KCNE2** | potassium voltage-gated | protein_coding | 0 | 1 | 1 | 2 | 1.158 |
| 9993 | NM_001173533,NM | **DGCR2** | DiGeorge syndrome criti | protein_coding | 28 | 29 | 29 | 30 | 1.023 |
| 9994 | NM_001137667,NM | **CASP8AP2** | caspase 8 associated pr | protein_coding | 23 | 19 | 24 | 20 | 0.812 |
| 9995 | gene-ELK2BP | **ELK2BP** | ETS transcription factor l | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 9997 | NM_001169109,NM | **SCO2** | synthesis of cytochrome | protein_coding | 12 | 11 | 13 | 12 | 0.924 |
| 10000 | NM_001206729,NM | **AKT3** | AKT serine/threonine kin | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 10001 | NM_001284209,NM | **MED6** | mediator complex subun | protein_coding | 38 | 41 | 39 | 42 | 1.089 |
| 10002 | NM_014249,NM_01 | **NR2E3** | nuclear receptor subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10003 | NM_001300930,NM | **NAALAD2** | N-acetylated alpha-linke | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10004 | NM_005468,XM_01: | **NAALADL1** | N-acetylated alpha-linke | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 10005 | NM_005469,XM_00 | **ACOT8** | acyl-CoA thioesterase 8 | protein_coding | 54 | 56 | 55 | 57 | 1.040 |
| 10006 | NM_001012750,NM | **ABI1** | abl interactor 1 | protein_coding | 9 | 10 | 10 | 11 | 1.087 |
| 10007 | NM_005471,XM_00 | **GNPDA1** | glucosamine-6-phosphat | protein_coding | 2 | 2 | 3 | 3 | 1.012 |
| 10008 | NM_005472,XM_01: | **KCNE3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 10009 | NM_001184742,NM | **ZBTB33** | zinc finger and BTB dom | protein_coding | 35 | 31 | 36 | 32 | 0.886 |
| 10010 | NM_001199135,NM | **TANK** | TRAF family member ass | protein_coding | 77 | 65 | 78 | 66 | 0.838 |
| 10011 | NM_001035235,NM | **SRA1** | steroid receptor RNA act | protein_coding | 57 | 56 | 58 | 57 | 0.986 |
| 10013 | NM_001321225,NM | **HDAC6** | histone deacetylase 6 | protein_coding | 16 | 16 | 17 | 17 | 1.032 |
| 10014 | NM_001015053,NM | **HDAC5** | histone deacetylase 5 | protein_coding | 2 | 3 | 3 | 4 | 1.250 |
| 10015 | NM_001162429,NM | **PDCD6IP** | programmed cell death 6 | protein_coding | 53 | 47 | 54 | 48 | 0.899 |
| 10016 | NM_001267556,NM | **PDCD6** | programmed cell death 6 | protein_coding | 109 | 112 | 110 | 113 | 1.031 |
| 10017 | NM_001306168,NM | **BCL2L10** | BCL2 like 10 | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 10018 | NM_001204106,NM | **BCL2L11** | BCL2 like 11 | protein_coding | 7 | 7 | 8 | 8 | 1.007 |
| 10019 | NM_001291424,NM | **SH2B3** | SH2B adaptor protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 10020 | NM_001128227,NM | **GNE** | glucosamine (UDP-N-ac | protein_coding | 9 | 9 | 10 | 10 | 0.987 |
| 10021 | NM_005477,XM_01: | **HCN4** | hyperpolarization activat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10022 | NM_005478 | **INSL5** | insulin like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10023 | NM_005479 | **FRAT1** | FRAT regulator of WNT s | protein_coding | 1 | 1 | 2 | 2 | 1.012 |
| 10024 | NM_001100620,NM | **TROAP** | trophinin associated prot | protein_coding | 32 | 34 | 33 | 35 | 1.069 |
| 10025 | NM_005481,XM_01 | **MED16** | mediator complex subun | protein_coding | 45 | 49 | 46 | 50 | 1.078 |
| 10026 | NM_005482 | **PIGK** | phosphatidylinositol glyc | protein_coding | 39 | 35 | 40 | 36 | 0.910 |
| 10031 | gene-SHROOM2P1 | **SHROOM2P1** | shroom family member 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 10033 | gene-ARSLP1 | **ARSLP1** | arylsulfatase L pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 10034 | gene-ARSDP1 | **ARSDP1** | arylsulfatase D pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 10036 | NM_005483,XM_01: | **CHAF1A** | chromatin assembly fact | protein_coding | 113 | 107 | 114 | 108 | 0.946 |
| 10038 | NM_001042618,NM | **PARP2** | poly(ADP-ribose) polyme | protein_coding | 40 | 43 | 41 | 44 | 1.066 |
| 10039 | NM_001003931,NM | **PARP3** | poly(ADP-ribose) polyme | protein_coding | 11 | 12 | 12 | 13 | 1.035 |
| 10040 | NM_001321173,NM | **TOM1L1** | target of myb1 like 1 mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10042 | NM_001003681,NM | **HMGXB4** | HMG-box containing 4 | protein_coding | 21 | 19 | 22 | 20 | 0.906 |
| 10043 | NM_001135729,NM | **TOM1** | target of myb1 membran | protein_coding | 6 | 6 | 7 | 7 | 0.975 |
| 10044 | NM_001142531,NM | **SH2D3C** | SH2 domain containing 3 | protein_coding | 30 | 34 | 31 | 35 | 1.152 |
| 10045 | NM_005490,XM_00 | **SH2D3A** | SH2 domain containing 3 | protein_coding | 17 | 17 | 18 | 18 | 0.975 |
| 10046 | NM_001177465,NM | **MAMLD1** | mastermind like domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10047 | NM_001281730,NM | **CST8** | cystatin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10048 | NM_005493,XM_00 | **RANBP9** | RAN binding protein 9 | protein_coding | 52 | 48 | 53 | 49 | 0.924 |
| 10049 | NM_001363676,NM | **DNAJB6** | DnaJ heat shock protein | protein_coding | 138 | 129 | 139 | 130 | 0.941 |
| 10050 | NM_001286121,NM | **SLC17A4** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10051 | NM_001002800,NM | **SMC4** | structural maintenance o | protein_coding | 252 | 209 | 253 | 210 | 0.831 |
| 10052 | NM_001080383,NM | **GJC1** | gap junction protein gam | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 10053 | NM_001300887,NM | **AP1M2** | adaptor related protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10054 | NM_005499,XM_00 | **UBA2** | ubiquitin like modifier act | protein_coding | 210 | 192 | 211 | 193 | 0.915 |
| 10055 | NM_001145713,NM | **SAE1** | SUMO1 activating enzym | protein_coding | 320 | 311 | 321 | 312 | 0.971 |
| 10056 | NM_005687,NR_13 | **FARSB** | phenylalanyl-tRNA synth | protein_coding | 157 | 151 | 158 | 152 | 0.967 |
| 10057 | NM_001023587,NM | **ABCC5** | ATP binding cassette sul | protein_coding | 24 | 21 | 25 | 22 | 0.903 |
| 10058 | NM_001349828,NM | **ABCB6** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 10059 | NM_001278463,NM | **DNM1L** | dynamin 1 like | protein_coding | 69 | 60 | 70 | 61 | 0.868 |
| 10060 | NM_001377273,NM | **ABCC9** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10061 | NM_007189 | **ABCF2** | ATP binding cassette sul | protein_coding | 74 | 74 | 75 | 75 | 1.003 |
| 10062 | NM_001130101,NM | **NR1H3** | nuclear receptor subfam | protein_coding | 13 | 15 | 14 | 16 | 1.155 |
| 10063 | NM_001382002,NM | **COX17** | cytochrome c oxidase co | protein_coding | 254 | 261 | 255 | 262 | 1.028 |
| 10064 | gene-VDAC1P2 | **VDAC1P2** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.130 |
| 10066 | NM_001320778,NM | **SCAMP2** | secretory carrier membra | protein_coding | 87 | 92 | 88 | 93 | 1.053 |
| 10067 | NM_005698,NM_05 | **SCAMP3** | secretory carrier membra | protein_coding | 119 | 128 | 120 | 129 | 1.079 |
| 10068 | NM_001039659,NM | **IL18BP** | interleukin 18 binding pr | protein_coding | 4 | 4 | 5 | 5 | 1.148 |
| 10069 | NM_001320724,NM | **RWDD2B** | RWD domain containing | protein_coding | 18 | 19 | 19 | 20 | 1.051 |
| 10071 | NM_001164462 | **MUC12** | mucin 12, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 10072 | NM_001256670,NM | **DPP3** | dipeptidyl peptidase 3 | protein_coding | 88 | 88 | 89 | 89 | 1.008 |
| 10073 | NM_001042581,NM | **SNUPN** | snurportin 1 | protein_coding | 35 | 32 | 36 | 33 | 0.914 |
| 10075 | NM_031407,XM_00 | **HUWE1** | HECT, UBA and WWE d | protein_coding | 99 | 82 | 100 | 83 | 0.835 |
| 10076 | NM_001195001,NM | **PTPRU** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 10077 | NM_139022,XM_00 | **TSPAN32** | tetraspanin 32 | protein_coding | 2 | 1 | 3 | 2 | 0.676 |
| 10078 | NM_001297658,NM | **TSSC4** | tumor suppressing subtr | protein_coding | 68 | 75 | 69 | 76 | 1.098 |
| 10079 | NM_006045,XM_01: | **ATP9A** | ATPase phospholipid tra | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 10081 | NM_005707 | **PDCD7** | programmed cell death 7 | protein_coding | 51 | 53 | 52 | 54 | 1.036 |
| 10082 | NM_005708,XM_01: | **GPC6** | glypican 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10083 | NM_001297764,NM | **USH1C** | USH1 protein network co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10084 | NM_001032381,NM | **PQBP1** | polyglutamine binding pr | protein_coding | 120 | 135 | 121 | 136 | 1.123 |
| 10085 | NM_001278642,NM | **EDIL3** | EGF like repeats and dis | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10086 | NM_001145095 | **HHLA1** | HERV-H LTR-associating | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10087 | NM_001130105,NM | **CERT1** | ceramide transporter 1 | protein_coding | 21 | 20 | 22 | 21 | 0.956 |
| 10089 | NM_005714,NM_03 | **KCNK7** | potassium two pore dom | protein_coding | 0 | 1 | 1 | 2 | 1.074 |
| 10090 | NM_005715,XM_01: | **UST** | uronyl 2-sulfotransferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10092 | NM_001270439,NM | **ARPC5** | actin related protein 2/3 c | protein_coding | 91 | 86 | 92 | 87 | 0.943 |
| 10093 | NM_001024959,NM | **ARPC4** | actin related protein 2/3 c | protein_coding | 161 | 170 | 162 | 171 | 1.060 |
| 10094 | NM_001278556,NM | **ARPC3** | actin related protein 2/3 c | protein_coding | 455 | 442 | 456 | 443 | 0.973 |
| 10095 | NM_005720,XM_00 | **ARPC1B** | actin related protein 2/3 c | protein_coding | 471 | 479 | 472 | 480 | 1.018 |
| 10096 | NM_001277140,NM | **ACTR3** | actin related protein 3 | protein_coding | 304 | 279 | 305 | 280 | 0.919 |
| 10097 | NM_001005386,NM | **ACTR2** | actin related protein 2 | protein_coding | 440 | 379 | 441 | 380 | 0.861 |
| 10098 | NM_005723,XM_00 | **TSPAN5** | tetraspanin 5 | protein_coding | 12 | 12 | 13 | 13 | 0.937 |
| 10099 | NM_001168412,NM | **TSPAN3** | tetraspanin 3 | protein_coding | 14 | 13 | 15 | 14 | 0.951 |
| 10100 | NM_001308315,NM | **TSPAN2** | tetraspanin 2 | protein_coding | 5 | 5 | 6 | 6 | 0.987 |
| 10101 | NM_001284501,NM | **NUBP2** | nucleotide binding protei | protein_coding | 84 | 93 | 85 | 94 | 1.101 |
| 10102 | NM_001172695,NM | **TSFM** | Ts translation elongation | protein_coding | 37 | 38 | 38 | 39 | 1.015 |
| 10103 | NM_005727,XM_01: | **TSPAN1** | tetraspanin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10105 | NM_005729,XM_00 | **PPIF** | peptidylprolyl isomerase | protein_coding | 300 | 283 | 301 | 284 | 0.942 |
| 10106 | NM_005730,XM_00 | **CTDSP2** | CTD small phosphatase | protein_coding | 1 | 1 | 2 | 2 | 1.114 |
| 10107 | NM_006778,NM_05 | **TRIM10** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10109 | NM_005731,NM_15 | **ARPC2** | actin related protein 2/3 c | protein_coding | 1,118 | 1,139 | 1,119 | 1,140 | 1.019 |
| 10110 | NM_001199264,NM | **SGK2** | serum/glucocorticoid reg | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10111 | NM_005732 | **RAD50** | RAD50 double strand br | protein_coding | 46 | 41 | 47 | 42 | 0.880 |
| 10112 | NM_005733 | **KIF20A** | kinesin family member 2 | protein_coding | 67 | 67 | 68 | 68 | 0.994 |
| 10113 | NM_001330484,NM | **PREB** | prolactin regulatory elem | protein_coding | 71 | 69 | 72 | 70 | 0.968 |
| 10114 | NM_001048200,NM | **HIPK3** | homeodomain interacting | protein_coding | 18 | 17 | 19 | 18 | 0.898 |
| 10116 | NM_015322 | **FEM1B** | fem-1 homolog B | protein_coding | 37 | 31 | 38 | 32 | 0.842 |
| 10117 | NM_001368133,NM | **ENAM** | enamelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10120 | NM_005735,XM_00 | **ACTR1B** | actin related protein 1B | protein_coding | 26 | 27 | 27 | 28 | 1.029 |
| 10121 | NM_005736 | **ACTR1A** | actin related protein 1A | protein_coding | 91 | 87 | 92 | 88 | 0.955 |
| 10123 | NM_001282431,NM | **ARL4C** | ADP ribosylation factor li | protein_coding | 209 | 202 | 210 | 203 | 0.969 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10124 | NM_001037164,NM | **ARL4A** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10125 | NM_001128602,NM | **RASGRP1** | RAS guanyl releasing pr | protein_coding | 60 | 56 | 61 | 57 | 0.931 |
| 10126 | NM_005740 | **DNAL4** | dynein axonemal light ch | protein_coding | 6 | 6 | 7 | 7 | 1.002 |
| 10127 | NM_005741,XM_00 | **ZNF263** | zinc finger protein 263 | protein_coding | 45 | 43 | 46 | 44 | 0.951 |
| 10128 | NM_133259,XM_00 | **LRPPRC** | leucine rich pentatricope | protein_coding | 72 | 63 | 73 | 64 | 0.870 |
| 10129 | NM_023037,XM_00 | **FRY** | FRY microtubule binding | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 10130 | NM_001282704,NM | **PDIA6** | protein disulfide isomera | protein_coding | 278 | 276 | 279 | 277 | 0.994 |
| 10131 | NM_001272049,NM | **TRAP1** | TNF receptor associated | protein_coding | 281 | 280 | 282 | 281 | 0.994 |
| 10133 | NM_001008211,NM | **OPTN** | optineurin | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 10134 | NM_001139441,NM | **BCAP31** | B cell receptor associate | protein_coding | 112 | 119 | 113 | 120 | 1.067 |
| 10135 | NM_005746 | **NAMPT** | nicotinamide phosphorib | protein_coding | 143 | 129 | 144 | 130 | 0.905 |
| 10136 | NM_005747 | **CELA3A** | chymotrypsin like elastas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10137 | NM_001198838,NM | **RBM12** | RNA binding motif protei | protein_coding | 64 | 61 | 65 | 62 | 0.956 |
| 10138 | NM_001190977,NM | **YAF2** | YY1 associated factor 2 | protein_coding | 9 | 7 | 10 | 8 | 0.785 |
| 10139 | NM_001134758,NM | **ARFRP1** | ADP ribosylation factor re | protein_coding | 51 | 59 | 52 | 60 | 1.137 |
| 10140 | NM_001243877,NM | **TOB1** | transducer of ERBB2, 1 | protein_coding | 11 | 11 | 12 | 12 | 0.967 |
| 10141 | NR_126517,NR_12 | **LINC01587** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 10142 | NM_001379277,NM | **AKAP9** | A-kinase anchoring prote | protein_coding | 14 | 11 | 15 | 12 | 0.780 |
| 10143 | NM_005752 | **CLEC3A** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10144 | NM_001015045,NM | **FAM13A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10146 | NM_005754,NM_19 | **G3BP1** | G3BP stress granule ass | protein_coding | 116 | 105 | 117 | 106 | 0.905 |
| 10147 | NM_001017392,NM | **SUGP2** | SURP and G-patch dom | protein_coding | 47 | 46 | 48 | 47 | 0.977 |
| 10148 | NM_005755,XM_01 | **EBI3** | Epstein-Barr virus induce | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10149 | NM_001079858,NM | **ADGRG2** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10150 | NM_001306070,NM | **MBNL2** | muscleblind like splicing | protein_coding | 1 | 1 | 2 | 2 | 1.022 |
| 10151 | NR_002726 | **HNRNPA3P1** | heterogeneous nuclear r | transcribed_pseu | 0 | 0 | 1 | 1 | 0.958 |
| 10152 | NM_001282925,NM | **ABI2** | abl interactor 2 | protein_coding | 25 | 20 | 26 | 21 | 0.825 |
| 10153 | NM_005760 | **CEBPZ** | CCAAT enhancer binding | protein_coding | 102 | 92 | 103 | 93 | 0.901 |
| 10154 | NM_005761,NR_03 | **PLXNC1** | plexin C1 | protein_coding | 11 | 11 | 12 | 12 | 0.964 |
| 10155 | NM_005762,XM_02 | **TRIM28** | tripartite motif containing | protein_coding | 381 | 424 | 382 | 425 | 1.113 |
| 10156 | NM_001079877,NM | **RASA4** | RAS p21 protein activato | protein_coding | 9 | 10 | 10 | 11 | 1.135 |
| 10157 | NM_005763,XM_01 | **AASS** | aminoadipate-semialdeh | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10158 | NM_005764 | **PDZK1IP1** | PDZK1 interacting protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10159 | NM_005765 | **ATP6AP2** | ATPase H+ transporting | protein_coding | 112 | 102 | 113 | 103 | 0.911 |
| 10160 | NM_001001715,NM | **FARP1** | FERM, ARH/RhoGEF an | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 10161 | NM_001162497,NM | **LPAR6** | lysophosphatidic acid re | protein_coding | 0 | 0 | 1 | 1 | 0.899 |
| 10162 | NM_005768,XM_02 | **LPCAT3** | lysophosphatidylcholine | protein_coding | 8 | 6 | 9 | 7 | 0.798 |
| 10163 | NM_001201404,NM | **WASF2** | WASP family member 2 | protein_coding | 69 | 67 | 70 | 68 | 0.982 |
| 10164 | NM_001166395,NM | **CHST4** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10165 | NM_001160210,NM | **SLC25A13** | solute carrier family 25 m | protein_coding | 36 | 35 | 37 | 36 | 0.967 |
| 10166 | NM_014252 | **SLC25A15** | solute carrier family 25 m | protein_coding | 9 | 8 | 10 | 9 | 0.933 |
| 10168 | NM_001024855,NM | **ZNF197** | zinc finger protein 197 | protein_coding | 12 | 11 | 13 | 12 | 0.893 |
| 10169 | NM_001018108,NM | **SERF2** | small EDRK-rich factor 2 | protein_coding | 181 | 214 | 182 | 215 | 1.176 |
| 10170 | NM_001142270,NM | **DHRS9** | dehydrogenase/reductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10171 | NM_001286699,NM | **RCL1** | RNA terminal phosphate | protein_coding | 46 | 38 | 47 | 39 | 0.831 |
| 10172 | NM_001375403,NM | **ZNF256** | zinc finger protein 256 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10174 | NM_001018003,NM | **SORBS3** | sorbin and SH3 domain c | protein_coding | 0 | 0 | 1 | 1 | 0.857 |
| 10175 | NM_005776 | **CNIH1** | cornichon family AMPA r | protein_coding | 47 | 41 | 48 | 42 | 0.883 |
| 10178 | NM_001163278,NM | **TENM1** | teneurin transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10179 | NM_001286045,NM | **RBM7** | RNA binding motif protei | protein_coding | 30 | 26 | 31 | 27 | 0.871 |
| 10180 | NM_001167582,NM | **RBM6** | RNA binding motif protei | protein_coding | 36 | 34 | 37 | 35 | 0.952 |
| 10181 | NM_005778,NR_03 | **RBM5** | RNA binding motif protei | protein_coding | 54 | 51 | 55 | 52 | 0.952 |
| 10184 | NM_005779,XM_00 | **LHFPL2** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 10186 | NM_005780,XM_01 | **LHFPL6** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10187 | gene-VDAC1P5 | **VDAC1P5** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 10188 | NM_001010938,NM | **TNK2** | tyrosine kinase non rece | protein_coding | 17 | 18 | 18 | 19 | 1.066 |
| 10189 | NM_005782,NR_15 | **ALYREF** | Aly/REF export factor | protein_coding | 318 | 340 | 319 | 341 | 1.071 |
| 10190 | NM_005783,XM_01 | **TXNDC9** | thioredoxin domain conta | protein_coding | 51 | 46 | 52 | 47 | 0.896 |
| 10193 | NM_001242826,NM | **RNF41** | ring finger protein 41 | protein_coding | 15 | 14 | 16 | 15 | 0.933 |
| 10194 | NM_001308210,NM | **TSHZ1** | teashirt zinc finger home | protein_coding | 19 | 19 | 20 | 20 | 1.023 |
| 10195 | NM_001006941,NM | **ALG3** | ALG3 alpha-1,3- mannos | protein_coding | 120 | 134 | 121 | 135 | 1.114 |
| 10196 | NM_001145166,NM | **PRMT3** | protein arginine methyltr | protein_coding | 60 | 56 | 61 | 57 | 0.927 |
| 10197 | NM_001267045,NM | **PSME3** | proteasome activator sub | protein_coding | 285 | 279 | 286 | 280 | 0.979 |
| 10198 | NM_022782,NR_10 | **MPHOSPH9** | M-phase phosphoprotein | protein_coding | 24 | 19 | 25 | 20 | 0.784 |
| 10199 | NM_005791 | **MPHOSPH10** | M-phase phosphoprotein | protein_coding | 96 | 87 | 97 | 88 | 0.904 |
| 10200 | NM_005792,XM_01 | **MPHOSPH6** | M-phase phosphoprotein | protein_coding | 99 | 87 | 100 | 88 | 0.887 |
| 10201 | NM_001308426,NM | **NME6** | NME/NM23 nucleoside d | protein_coding | 18 | 17 | 19 | 18 | 0.914 |
| 10202 | NM_001318835,NM | **DHRS2** | dehydrogenase/reductas | protein_coding | 0 | 1 | 1 | 2 | 1.138 |
| 10203 | NM_001271751,NM | **CALCRL** | calcitonin receptor like re | protein_coding | 0 | 0 | 1 | 1 | 0.881 |
| 10204 | NM_001322038,NM | **NUTF2** | nuclear transport factor 2 | protein_coding | 112 | 123 | 113 | 124 | 1.103 |
| 10205 | NM_005797,NM_14 | **MPZL2** | myelin protein zero like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10206 | NM_001007278,NM | **TRIM13** | tripartite motif containing | protein_coding | 7 | 6 | 8 | 7 | 0.905 |
| 10207 | NM_001350145,NM | **PATJ** | PATJ crumbs cell polarity | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 10208 | NM_001321532,NM | **USPL1** | ubiquitin specific peptida | protein_coding | 24 | 20 | 25 | 21 | 0.863 |
| 10209 | NM_005801 | **EIF1** | eukaryotic translation init | protein_coding | 408 | 401 | 409 | 402 | 0.982 |
| 10210 | NM_001195622,NM | **TOPORS** | TOP1 binding arginine/s | protein_coding | 16 | 15 | 17 | 16 | 0.952 |
| 10211 | NM_001318875,NM | **FLOT1** | flotillin 1 | protein_coding | 374 | 338 | 375 | 339 | 0.905 |
| 10212 | NM_005804,NR_04 | **DDX39A** | DExD-box helicase 39A | protein_coding | 390 | 425 | 391 | 426 | 1.090 |
| 10213 | NM_005805 | **PSMD14** | proteasome 26S subunit | protein_coding | 243 | 220 | 244 | 221 | 0.906 |
| 10214 | NM_021014,XM_01 | **SSX3** | SSX family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10215 | NM_005806,XM_00 | **OLIG2** | oligodendrocyte transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10216 | NM_001127708,NM | **PRG4** | proteoglycan 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10217 | NM_001008392,NM | **CTDSPL** | CTD small phosphatase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10218 | NM_021146,XM_01 | **ANGPTL7** | angiopoietin like 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10219 | NM_001329099,NM | **KLRG1** | killer cell lectin like recep | protein_coding | 9 | 5 | 10 | 6 | 0.624 |
| 10220 | NM_005811,XM_00 | **GDF11** | growth differentiation fac | protein_coding | 4 | 3 | 5 | 4 | 0.834 |
| 10221 | NM_001282985,NM | **TRIB1** | tribbles pseudokinase 1 | protein_coding | 2 | 1 | 3 | 2 | 0.680 |
| 10223 | NM_005814,XM_01 | **GPA33** | glycoprotein A33 | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 10224 | NM_005815 | **ZNF443** | zinc finger protein 443 | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 10225 | NM_001318889,NM | **CD96** | CD96 molecule | protein_coding | 150 | 124 | 151 | 125 | 0.826 |
| 10226 | NM_001164189,NM | **PLIN3** | perilipin 3 | protein_coding | 16 | 12 | 17 | 13 | 0.776 |
| 10227 | NM_001120,NM_00 | **MFSD10** | major facilitator superfam | protein_coding | 29 | 30 | 30 | 31 | 1.045 |
| 10228 | NM_001286210,NM | **STX6** | syntaxin 6 | protein_coding | 26 | 23 | 27 | 24 | 0.880 |
| 10229 | NM_001190983,NM | **COQ7** | coenzyme Q7, hydroxyla | protein_coding | 17 | 18 | 18 | 19 | 1.022 |
| 10230 | NR_003108,NR_13 | **NBR2** | neighbor of BRCA1 lncR | lncRNA | 7 | 7 | 8 | 8 | 0.917 |
| 10231 | NM_001251973,NM | **RCAN2** | regulator of calcineurin 2 | protein_coding | 3 | 4 | 4 | 5 | 1.063 |
| 10232 | NM_001177355,NM | **MSLN** | mesothelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10233 | NM_001135217,NM | **LRRC23** | leucine rich repeat conta | protein_coding | 2 | 2 | 3 | 3 | 1.228 |
| 10234 | NM_001031692,NM | **LRRC17** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10235 | NM_001098670,NM | **RASGRP2** | RAS guanyl releasing pr | protein_coding | 22 | 25 | 23 | 26 | 1.140 |
| 10236 | NM_001102397,NM | **HNRNPR** | heterogeneous nuclear r | protein_coding | 447 | 455 | 448 | 456 | 1.018 |
| 10237 | NM_001278784,NM | **SLC35B1** | solute carrier family 35 m | protein_coding | 94 | 97 | 95 | 98 | 1.029 |
| 10238 | NM_005828,NR_07 | **DCAF7** | DDB1 and CUL4 associa | protein_coding | 86 | 81 | 87 | 82 | 0.941 |
| 10239 | NM_005829,NR_02 | **AP3S2** | adaptor related protein c | protein_coding | 23 | 23 | 24 | 24 | 0.996 |
| 10240 | NM_005830,XR_00 | **MRPS31** | mitochondrial ribosomal | protein_coding | 54 | 47 | 55 | 48 | 0.882 |
| 10241 | NM_001261390,NM | **CALCOCO2** | calcium binding and coil | protein_coding | 23 | 21 | 24 | 22 | 0.918 |
| 10242 | NM_001278911,NM | **KCNMB2** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10243 | NM_001024218,NM | **GPHN** | gephyrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10244 | NM_001174152,NM | **RABEPK** | Rab9 effector protein wit | protein_coding | 59 | 55 | 60 | 56 | 0.937 |
| 10245 | NM_001167947,NM | **TIMM17B** | translocase of inner mito | protein_coding | 113 | 121 | 114 | 122 | 1.070 |
| 10246 | NM_001286123,NM | **SLC17A2** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10247 | NM_005836 | **RIDA** | reactive intermediate imi | protein_coding | 65 | 65 | 66 | 66 | 0.990 |
| 10248 | NM_005837 | **POP7** | POP7 homolog, ribonucl | protein_coding | 128 | 124 | 129 | 125 | 0.968 |
| 10249 | NM_005838,NM_20 | **GLYAT** | glycine-N-acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10250 | NM_001303448,NM | **SRRM1** | serine and arginine repe | protein_coding | 119 | 100 | 120 | 101 | 0.842 |
| 10251 | NM_001304990,NM | **SPRY3** | sprouty RTK signaling ar | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 10252 | NM_001258038,NM | **SPRY1** | sprouty RTK signaling ar | protein_coding | 17 | 14 | 18 | 15 | 0.843 |
| 10253 | NM_001318536,NM | **SPRY2** | sprouty RTK signaling ar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10254 | NM_005843,XR_00 | **STAM2** | signal transducing adapt | protein_coding | 13 | 10 | 14 | 11 | 0.776 |
| 10255 | NR_028032 | **HCG9** | HLA complex group 9 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 10256 | NM_001297647,NM | **CNKSR1** | connector enhancer of ki | protein_coding | 1 | 0 | 2 | 1 | 0.853 |
| 10257 | NM_001105515,NM | **ABCC4** | ATP binding cassette sul | protein_coding | 20 | 17 | 21 | 18 | 0.880 |
| 10260 | NM_001144823,NM | **DENND4A** | DENN domain containing | protein_coding | 14 | 12 | 15 | 13 | 0.900 |
| 10261 | NM_005849 | **IGSF6** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 0.708 |
| 10262 | NM_005850 | **SF3B4** | splicing factor 3b subuni | protein_coding | 239 | 255 | 240 | 256 | 1.064 |
| 10263 | NM_001271849,NM | **CDK2AP2** | cyclin dependent kinase | protein_coding | 72 | 75 | 73 | 76 | 1.044 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10265 | NM_001252197,NM | **IRX5** | iroquois homeobox 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10266 | NM_005854 | **RAMP2** | receptor activity modifyin | protein_coding | 0 | 1 | 1 | 2 | 1.132 |
| 10267 | NM_001308353,NM | **RAMP1** | receptor activity modifyin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10268 | NM_005856,XM_00 | **RAMP3** | receptor activity modifyin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10269 | NM_005857,XR_00 | **ZMPSTE24** | zinc metallopeptidase ST | protein_coding | 133 | 118 | 134 | 119 | 0.889 |
| 10270 | NM_005858 | **AKAP8** | A-kinase anchoring prote | protein_coding | 41 | 36 | 42 | 37 | 0.877 |
| 10272 | NM_005860 | **FSTL3** | follistatin like 3 | protein_coding | 4 | 5 | 5 | 6 | 1.071 |
| 10273 | NM_001293197,NM | **STUB1** | STIP1 homology and U-b | protein_coding | 108 | 114 | 109 | 115 | 1.059 |
| 10274 | NM_005862,XM_01 | **STAG1** | stromal antigen 1 | protein_coding | 40 | 37 | 41 | 38 | 0.936 |
| 10276 | NM_001047160,NM | **NET1** | neuroepithelial cell trans | protein_coding | 60 | 51 | 61 | 52 | 0.863 |
| 10277 | NM_001105562,NM | **UBE4B** | ubiquitination factor E4B | protein_coding | 26 | 25 | 27 | 26 | 0.965 |
| 10278 | NM_001277174,NM | **EFS** | embryonal Fyn-associate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10279 | NM_005865,XM_01 | **PRSS16** | serine protease 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10280 | NM_001282205,NM | **SIGMAR1** | sigma non-opioid intrace | protein_coding | 208 | 229 | 209 | 230 | 1.099 |
| 10281 | NR_147130 | **DSCR4** | Down syndrome critical r | lncRNA | 0 | 0 | 1 | 1 | 0.866 |
| 10282 | NM_001317739,NM | **BET1** | Bet1 golgi vesicular mem | protein_coding | 49 | 46 | 50 | 47 | 0.950 |
| 10283 | NM_001297644,NM | **CWC27** | CWC27 spliceosome ass | protein_coding | 62 | 53 | 63 | 54 | 0.856 |
| 10284 | NM_001366643,NM | **SAP18** | Sin3A associated protein | protein_coding | 187 | 199 | 188 | 200 | 1.065 |
| 10285 | NM_005871,XM_00 | **SMNDC1** | survival motor neuron do | protein_coding | 56 | 44 | 57 | 45 | 0.779 |
| 10286 | NM_005872 | **BCAS2** | BCAS2 pre-mRNA proce | protein_coding | 169 | 172 | 170 | 173 | 1.023 |
| 10287 | NM_001039467,NM | **RGS19** | regulator of G protein sig | protein_coding | 27 | 27 | 28 | 28 | 0.982 |
| 10288 | NM_001080978,NM | **LILRB2** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10289 | NM_005875 | **EIF1B** | eukaryotic translation init | protein_coding | 74 | 61 | 75 | 62 | 0.822 |
| 10290 | NM_001173476,NM | **SPEG** | striated muscle enriched | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10291 | NM_005877 | **SF3A1** | splicing factor 3a subuni | protein_coding | 103 | 104 | 104 | 105 | 1.010 |
| 10293 | NM_005879,XM_01 | **TRAIP** | TRAF interacting protein | protein_coding | 25 | 26 | 26 | 27 | 1.048 |
| 10294 | NM_005880 | **DNAJA2** | DnaJ heat shock protein | protein_coding | 103 | 99 | 104 | 100 | 0.954 |
| 10295 | NM_001122957,NM | **BCKDK** | branched chain keto acic | protein_coding | 39 | 37 | 40 | 38 | 0.940 |
| 10296 | NM_001017405,NM | **MAEA** | macrophage erythroblast | protein_coding | 80 | 91 | 81 | 92 | 1.129 |
| 10297 | NM_001351273,NM | **APC2** | APC regulator of WNT si | protein_coding | 0 | 0 | 1 | 1 | 1.075 |
| 10298 | NM_001014831,NM | **PAK4** | p21 (RAC1) activated kin | protein_coding | 20 | 20 | 21 | 21 | 1.015 |
| 10299 | NM_001270660,NM | **MARCHF6** | membrane associated rir | protein_coding | 29 | 28 | 30 | 29 | 0.984 |
| 10300 | NM_005886 | **KATNB1** | katanin regulatory subur | protein_coding | 29 | 30 | 30 | 31 | 1.014 |
| 10301 | NR_002605,NR_10 | **DLEU1** | deleted in lymphocytic le | lncRNA | 30 | 28 | 31 | 29 | 0.931 |
| 10302 | NM_001329613,NM | **SNAPC5** | small nuclear RNA activa | protein_coding | 49 | 51 | 50 | 52 | 1.022 |
| 10307 | NM_006051,NM_13 | **APBB3** | amyloid beta precursor p | protein_coding | 4 | 5 | 5 | 6 | 1.268 |
| 10308 | NM_001265588,NM | **ZNF267** | zinc finger protein 267 | protein_coding | 36 | 31 | 37 | 32 | 0.875 |
| 10309 | NM_021147,NR_12 | **CCNO** | cyclin O | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10311 | NM_001331018,NM | **VPS26C** | VPS26 endosomal protei | protein_coding | 29 | 22 | 30 | 23 | 0.786 |
| 10312 | NM_001351059,NM | **TCIRG1** | T cell immune regulator | protein_coding | 19 | 22 | 20 | 23 | 1.139 |
| 10313 | NM_001265589,NM | **RTN3** | reticulon 3 | protein_coding | 118 | 91 | 119 | 92 | 0.773 |
| 10314 | NM_001136574,NM | **LANCL1** | LanC like 1 | protein_coding | 56 | 47 | 57 | 48 | 0.845 |
| 10316 | NM_006056,XM_00 | **NMUR1** | neuromedin U receptor 1 | protein_coding | 21 | 21 | 22 | 22 | 0.980 |
| 10317 | NM_001278650,NM | **B3GALT5** | beta-1,3-galactosyltransf | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 10318 | NM_001252385,NM | **TNIP1** | TNFAIP3 interacting prot | protein_coding | 64 | 65 | 65 | 66 | 1.028 |
| 10319 | NM_006059,XM_00 | **LAMC3** | laminin subunit gamma 3 | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 10320 | NM_001220765,NM | **IKZF1** | IKAROS family zinc finge | protein_coding | 23 | 24 | 24 | 25 | 1.055 |
| 10321 | NM_001190986,NM | **CRISP3** | cysteine rich secretory pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10322 | NM_006062 | **SMYD5** | SMYD family member 5 | protein_coding | 49 | 50 | 50 | 51 | 1.011 |
| 10324 | NM_006063 | **KLHL41** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 10325 | NM_001354011,NM | **RRAGB** | Ras related GTP binding | protein_coding | 4 | 3 | 5 | 4 | 0.867 |
| 10326 | NM_001083910,NM | **SIRPB1** | signal regulatory protein | protein_coding | 1 | 1 | 2 | 2 | 1.103 |
| 10327 | NM_001202413,NM | **AKR1A1** | aldo-keto reductase fami | protein_coding | 144 | 154 | 145 | 155 | 1.067 |
| 10328 | NM_001142288,NM | **EMC8** | ER membrane protein cc | protein_coding | 47 | 52 | 48 | 53 | 1.116 |
| 10329 | NM_001278237,NM | **RXYLT1** | ribitol xylosyltransferase | protein_coding | 38 | 38 | 39 | 39 | 1.000 |
| 10330 | NM_001190991,NM | **CNPY2** | canopy FGF signaling re | protein_coding | 131 | 126 | 132 | 127 | 0.962 |
| 10331 | NM_014256,XM_01 | **B3GNT3** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10332 | NM_001144904,NM | **CLEC4M** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10333 | NM_006068,XM_00 | **TLR6** | toll like receptor 6 | protein_coding | 1 | 1 | 2 | 2 | 0.961 |
| 10335 | NM_001098579,NM | **IRAG1** | inositol 1,4,5-triphosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10336 | NM_001317836,NM | **PCGF3** | polycomb group ring finc | protein_coding | 6 | 5 | 7 | 6 | 0.921 |
| 10342 | NM_001007565,NM | **TFG** | trafficking from ER to gol | protein_coding | 56 | 54 | 57 | 55 | 0.964 |
| 10343 | NM_006071 | **PKDREJ** | polycystin family recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10344 | NM_001371936,NM | **CCL26** | C-C motif chemokine liga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10345 | NM_001251987,NM | **TRDN** | triadin | protein_coding | 2 | 2 | 3 | 3 | 0.881 |
| 10346 | NM_001199573,NM | **TRIM22** | tripartite motif containing | protein_coding | 13 | 11 | 14 | 12 | 0.889 |
| 10347 | NM_019112,XM_00 | **ABCA7** | ATP binding cassette sul | protein_coding | 5 | 5 | 6 | 6 | 1.092 |
| 10349 | NM_001377321,NM | **ABCA10** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10350 | NM_080283,XM_01 | **ABCA9** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10351 | NM_001288985,NM | **ABCA8** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10352 | NM_001378226,NM | **WARS2** | tryptophanyl tRNA synth | protein_coding | 10 | 8 | 11 | 9 | 0.864 |
| 10354 | gene-HMGB1P5 | **HMGB1P5** | high mobility group box 1 | pseudogene | 350 | 352 | 351 | 353 | 1.004 |
| 10355 | gene-HMGB1P4 | **HMGB1P4** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 10356 | gene-HMGB1P3 | **HMGB1P3** | high mobility group box 1 | pseudogene | 1 | 1 | 2 | 2 | 0.970 |
| 10357 | gene-HMGB1P1 | **HMGB1P1** | high mobility group box 1 | pseudogene | 5 | 4 | 6 | 5 | 0.799 |
| 10360 | NM_006993 | **NPM3** | nucleophosmin/nucleopl | protein_coding | 102 | 95 | 103 | 96 | 0.933 |
| 10361 | NM_001286680,NM | **NPM2** | nucleophosmin/nucleopl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10362 | NM_006339,XM_01 | **HMG20B** | high mobility group 20B | protein_coding | 24 | 23 | 25 | 24 | 0.935 |
| 10363 | NM_001304504,NM | **HMG20A** | high mobility group 20A | protein_coding | 49 | 42 | 50 | 43 | 0.862 |
| 10365 | NM_016270 | **KLF2** | Kruppel like factor 2 | protein_coding | 13 | 16 | 14 | 17 | 1.168 |
| 10367 | NM_001195518,NM | **MICU1** | mitochondrial calcium up | protein_coding | 31 | 32 | 32 | 33 | 1.036 |
| 10368 | NM_006539 | **CACNG3** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10369 | NM_001379051,NM | **CACNG2** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10370 | NM_001168388,NM | **CITED2** | Cbp/p300 interacting tra | protein_coding | 23 | 25 | 24 | 26 | 1.069 |
| 10371 | NM_006080,XM_00 | **SEMA3A** | semaphorin 3A | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 10376 | NM_006082 | **TUBA1B** | tubulin alpha 1b | protein_coding | 3,807 | 3,978 | 3,808 | 3,979 | 1.045 |
| 10379 | NM_006084 | **IRF9** | interferon regulatory fact | protein_coding | 47 | 43 | 48 | 44 | 0.920 |
| 10380 | NM_001286149,NM | **BPNT1** | 3'(2'), 5'-bisphosphate nu | protein_coding | 44 | 38 | 45 | 39 | 0.866 |
| 10381 | NM_001197181,NM | **TUBB3** | tubulin beta 3 class III | protein_coding | 4 | 6 | 5 | 7 | 1.283 |
| 10382 | NM_001289123,NM | **TUBB4A** | tubulin beta 4A class IVa | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 10383 | NM_006088 | **TUBB4B** | tubulin beta 4B class IVb | protein_coding | 629 | 700 | 630 | 701 | 1.112 |
| 10384 | NM_001242803,NM | **BTN3A3** | butyrophilin subfamily 3 | protein_coding | 20 | 18 | 21 | 19 | 0.874 |
| 10385 | NM_001197237,NM | **BTN2A2** | butyrophilin subfamily 2 | protein_coding | 7 | 5 | 8 | 6 | 0.768 |
| 10388 | NM_014258,XM_01 | **SYCP2** | synaptonemal complex p | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 10389 | NM_006089,NR_03 | **SCML2** | Scm polycomb group pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10390 | NM_001007794,NM | **CEPT1** | choline/ethanolamine ph | protein_coding | 41 | 37 | 42 | 38 | 0.913 |
| 10391 | NM_001190456,NM | **CORO2B** | coronin 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10392 | NM_001354849,NM | **NOD1** | nucleotide binding oligor | protein_coding | 4 | 4 | 5 | 5 | 0.987 |
| 10393 | NM_001256706,NM | **ANAPC10** | anaphase promoting con | protein_coding | 29 | 25 | 30 | 26 | 0.866 |
| 10394 | NM_006093 | **PRG3** | proteoglycan 3, pro eosir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10395 | NM_001164271,NM | **DLC1** | DLC1 Rho GTPase activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10396 | NM_001105529,NM | **ATP8A1** | ATPase phospholipid tra | protein_coding | 7 | 6 | 8 | 7 | 0.878 |
| 10397 | NM_001135242,NM | **NDRG1** | N-myc downstream regu | protein_coding | 3 | 3 | 4 | 4 | 1.253 |
| 10398 | NM_006097,NM_18 | **MYL9** | myosin light chain 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10399 | NM_006098 | **RACK1** | receptor for activated C k | protein_coding | 2,175 | 2,281 | 2,176 | 2,282 | 1.049 |
| 10400 | NM_001267551,NM | **PEMT** | phosphatidylethanolamir | protein_coding | 10 | 14 | 11 | 15 | 1.390 |
| 10401 | NM_006099 | **PIAS3** | protein inhibitor of activa | protein_coding | 13 | 13 | 14 | 14 | 1.036 |
| 10402 | NM_001271142,NM | **ST3GAL6** | ST3 beta-galactoside alp | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 10403 | NM_006101 | **NDC80** | NDC80 kinetochore com | protein_coding | 68 | 58 | 69 | 59 | 0.857 |
| 10404 | NM_016134 | **CPQ** | carboxypeptidase Q | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10406 | NM_006103 | **WFDC2** | WAP four-disulfide core d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10407 | NM_016512,NM_05 | **SPAG11B** | sperm associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10408 | NR_110230,NR_16 | **MYCNOS** | MYCN opposite strand | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 10409 | NM_001271606,NM | **BASP1** | brain abundant membra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10410 | NM_021034,NR_04 | **IFITM3** | interferon induced transr | protein_coding | 11 | 17 | 12 | 18 | 1.572 |
| 10411 | NM_001098531,NM | **RAPGEF3** | Rap guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 10412 | NM_001271665,NM | **NSA2** | NSA2 ribosome biogenes | protein_coding | 84 | 80 | 85 | 81 | 0.945 |
| 10413 | NM_001130145,NM | **YAP1** | Yes1 associated transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10415 | gene-SNAI1P1 | **SNAI1P1** | snail family zinc finger 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 10417 | NM_001128325,NM | **SPON2** | spondin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 10418 | NM_006108 | **SPON1** | spondin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10419 | NM_001039619,NM | **PRMT5** | protein arginine methyltr | protein_coding | 129 | 135 | 130 | 136 | 1.050 |
| 10420 | NM_001320800,NM | **TESK2** | testis associated actin re | protein_coding | 1 | 1 | 2 | 2 | 0.872 |
| 10421 | NM_001243646,NM | **CD2BP2** | CD2 cytoplasmic tail bin | protein_coding | 107 | 108 | 108 | 109 | 1.016 |
| 10422 | NM_016172 | **UBAC1** | UBA domain containing 1 | protein_coding | 47 | 46 | 48 | 47 | 0.976 |
| 10423 | NM_001286585,NM | **CDIPT** | CDP-diacylglycerol--inos | protein_coding | 56 | 55 | 57 | 56 | 0.977 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10424 | NM_006320,XM_01 | **PGRMC2** | progesterone receptor m | protein_coding | 39 | 34 | 40 | 35 | 0.884 |
| 10425 | NM_001317333,NM | **ARIH2** | ariadne RBR E3 ubiquitir | protein_coding | 90 | 73 | 91 | 74 | 0.816 |
| 10426 | NM_001286277,NM | **TUBGCP3** | tubulin gamma complex | protein_coding | 57 | 58 | 58 | 59 | 1.031 |
| 10427 | NM_001042734,NM | **SEC24B** | SEC24 homolog B, COP | protein_coding | 18 | 14 | 19 | 15 | 0.787 |
| 10428 | NM_006324,XM_01 | **CFDP1** | craniofacial development | protein_coding | 41 | 48 | 42 | 49 | 1.159 |
| 10430 | NM_001242597,NM | **TMEM147** | transmembrane protein 1 | protein_coding | 102 | 104 | 103 | 105 | 1.013 |
| 10432 | NM_001198836,NM | **RBM14** | RNA binding motif protei | protein_coding | 52 | 56 | 53 | 57 | 1.087 |
| 10434 | NM_001279356,NM | **LYPLA1** | lysophospholipase 1 | protein_coding | 159 | 139 | 160 | 140 | 0.878 |
| 10435 | NM_006779 | **CDC42EP2** | CDC42 effector protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 10436 | NM_001320049,NM | **EMG1** | EMG1 N1-specific pseud | protein_coding | 28 | 27 | 29 | 28 | 0.967 |
| 10437 | NM_006332 | **IFI30** | IFI30 lysosomal thiol red | protein_coding | 230 | 247 | 231 | 248 | 1.073 |
| 10438 | NM_001190263,NM | **C1D** | C1D nuclear receptor co | protein_coding | 34 | 33 | 35 | 34 | 0.981 |
| 10439 | NM_001282611,NM | **OLFM1** | olfactomedin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10440 | NM_006335 | **TIMM17A** | translocase of inner mito | protein_coding | 183 | 183 | 184 | 184 | 0.999 |
| 10443 | NM_001278432,NM | **N4BP2L2** | NEDD4 binding protein 2 | protein_coding | 23 | 21 | 24 | 22 | 0.894 |
| 10444 | NM_001375954,NM | **ZER1** | zyg-11 related cell cycle | protein_coding | 2 | 2 | 3 | 3 | 0.958 |
| 10445 | NM_001012300,NM | **MCRS1** | microspherule protein 1 | protein_coding | 40 | 51 | 41 | 52 | 1.264 |
| 10446 | NM_006338,NM_20 | **LRRN2** | leucine rich repeat neurc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10447 | NM_001040020,NM | **FAM3C** | FAM3 metabolism regula | protein_coding | 499 | 482 | 500 | 483 | 0.966 |
| 10449 | NM_006111 | **ACAA2** | acetyl-CoA acyltransfera | protein_coding | 200 | 182 | 201 | 183 | 0.912 |
| 10450 | NM_001195007,NM | **PPIE** | peptidylprolyl isomerase | protein_coding | 45 | 33 | 46 | 34 | 0.737 |
| 10451 | NM_001079874,NM | **VAV3** | vav guanine nucleotide e | protein_coding | 0 | 0 | 1 | 1 | 0.930 |
| 10452 | NM_001128916,NM | **TOMM40** | translocase of outer mito | protein_coding | 474 | 506 | 475 | 507 | 1.067 |
| 10454 | NM_006116,NM_15 | **TAB1** | TGF-beta activated kinas | protein_coding | 26 | 27 | 27 | 28 | 1.040 |
| 10455 | NM_001166010,NM | **ECI2** | enoyl-CoA delta isomera | protein_coding | 42 | 37 | 43 | 38 | 0.879 |
| 10456 | NM_001018837,NM | **HAX1** | HCLS1 associated protei | protein_coding | 215 | 217 | 216 | 218 | 1.009 |
| 10457 | NM_001005340,NM | **GPNMB** | glycoprotein nmb | protein_coding | 1 | 1 | 2 | 2 | 0.953 |
| 10458 | NM_001144888,NM | **BAIAP2** | BAR/IMD domain contair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10459 | NM_001127325,NM | **MAD2L2** | mitotic arrest deficient 2 l | protein_coding | 300 | 327 | 301 | 328 | 1.089 |
| 10460 | NM_006342,XM_00 | **TACC3** | transforming acidic coile | protein_coding | 135 | 134 | 136 | 135 | 0.993 |
| 10461 | NM_006343 | **MERTK** | MER proto-oncogene, ty | protein_coding | 1 | 1 | 2 | 2 | 1.141 |
| 10462 | NM_001330070,NM | **CLEC10A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10463 | NM_006345,XM_01 | **SLC30A9** | solute carrier family 30 r | protein_coding | 55 | 45 | 56 | 46 | 0.819 |
| 10464 | NM_001349655,NM | **PIBF1** | progesterone immunomc | protein_coding | 17 | 14 | 18 | 15 | 0.869 |
| 10465 | NM_001330510,NM | **PPIH** | peptidylprolyl isomerase | protein_coding | 197 | 196 | 198 | 197 | 0.994 |
| 10466 | NM_001161520,NM | **COG5** | component of oligomeric | protein_coding | 21 | 18 | 22 | 19 | 0.866 |
| 10467 | NM_006349,XM_01 | **ZNHIT1** | zinc finger HIT-type cont | protein_coding | 104 | 107 | 105 | 108 | 1.035 |
| 10468 | NM_006350,NM_01 | **FST** | follistatin | protein_coding | 1 | 1 | 2 | 2 | 1.167 |
| 10469 | NM_006351 | **TIMM44** | translocase of inner mito | protein_coding | 123 | 121 | 124 | 122 | 0.983 |
| 10471 | NM_001185181,NM | **PFDN6** | prefoldin subunit 6 | protein_coding | 327 | 335 | 328 | 336 | 1.024 |
| 10472 | NM_001278196,NM | **ZBTB18** | zinc finger and BTB dom | protein_coding | 1 | 1 | 2 | 2 | 0.952 |
| 10473 | NM_006353,XM_01 | **HMGN4** | high mobility group nucl | protein_coding | 120 | 105 | 121 | 106 | 0.874 |
| 10474 | NM_001278270,NM | **TADA3** | transcriptional adaptor 3 | protein_coding | 110 | 117 | 111 | 118 | 1.056 |
| 10475 | NM_006355,XM_00 | **TRIM38** | tripartite motif containing | protein_coding | 14 | 12 | 15 | 13 | 0.895 |
| 10476 | NM_001003785,NM | **ATP5PD** | ATP synthase peripheral | protein_coding | 442 | 445 | 443 | 446 | 1.006 |
| 10477 | NM_001278554,NM | **UBE2E3** | ubiquitin conjugating en | protein_coding | 17 | 13 | 18 | 14 | 0.776 |
| 10478 | NM_001282726,NM | **SLC25A17** | solute carrier family 25 r | protein_coding | 44 | 43 | 45 | 44 | 0.967 |
| 10479 | NM_001042537,NM | **SLC9A6** | solute carrier family 9 me | protein_coding | 20 | 20 | 21 | 21 | 1.005 |
| 10480 | NM_001307929,NM | **EIF3M** | eukaryotic translation init | protein_coding | 127 | 127 | 128 | 128 | 1.001 |
| 10481 | NM_006361 | **HOXB13** | homeobox B13 | protein_coding | 1 | 1 | 2 | 2 | 0.887 |
| 10482 | NM_001081491,NM | **NXF1** | nuclear RNA export factc | protein_coding | 73 | 77 | 74 | 78 | 1.054 |
| 10483 | NM_001172745,NM | **SEC23B** | SEC23 homolog B, COP | protein_coding | 105 | 100 | 106 | 101 | 0.953 |
| 10484 | NM_006364,XM_00 | **SEC23A** | Sec23 homolog A, COPII | protein_coding | 37 | 32 | 38 | 33 | 0.864 |
| 10485 | NR_135260,NR_13 | **MIR9-1HG** | MIR9-1 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 10486 | NM_001363533,NM | **CAP2** | cyclase associated actin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10487 | NM_001105530,NM | **CAP1** | cyclase associated actin | protein_coding | 447 | 422 | 448 | 423 | 0.944 |
| 10488 | NM_006368 | **CREB3** | cAMP responsive elemer | protein_coding | 29 | 31 | 30 | 32 | 1.092 |
| 10489 | NM_006369,XR_00 | **LRRC41** | leucine rich repeat conta | protein_coding | 26 | 26 | 27 | 27 | 0.993 |
| 10490 | NM_006370 | **VTI1B** | vesicle transport through | protein_coding | 35 | 33 | 36 | 34 | 0.950 |
| 10491 | NM_006371 | **CRTAP** | cartilage associated prot | protein_coding | 3 | 3 | 4 | 4 | 0.944 |
| 10492 | NM_001159673,NM | **SYNCRIP** | synaptotagmin binding c | protein_coding | 291 | 256 | 292 | 257 | 0.881 |
| 10493 | NM_006373 | **VAT1** | vesicle amine transport 1 | protein_coding | 1 | 1 | 2 | 2 | 0.904 |
| 10494 | NM_001271977,NM | **STK25** | serine/threonine kinase 2 | protein_coding | 48 | 52 | 49 | 53 | 1.080 |
| 10495 | NM_001281736,NM | **ENOX2** | ecto-NOX disulfide-thiol | protein_coding | 9 | 8 | 10 | 9 | 0.883 |
| 10497 | NM_001330653,NM | **UNC13B** | unc-13 homolog B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10498 | NM_001370088,NM | **CARM1** | coactivator associated ar | protein_coding | 67 | 68 | 68 | 69 | 1.012 |
| 10499 | NM_001321703,NM | **NCOA2** | nuclear receptor coactiva | protein_coding | 23 | 18 | 24 | 19 | 0.823 |
| 10500 | NM_001178061,NM | **SEMA6C** | semaphorin 6C | protein_coding | 0 | 0 | 1 | 1 | 0.931 |
| 10501 | NM_032108,XM_01 | **SEMA6B** | semaphorin 6B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10505 | NM_001271661,NM | **SEMA4F** | ssemaphorin 4F | protein_coding | 1 | 1 | 2 | 2 | 1.042 |
| 10507 | NM_001142287,NM | **SEMA4D** | semaphorin 4D | protein_coding | 230 | 197 | 231 | 198 | 0.855 |
| 10509 | NM_001324029,NM | **SEMA4B** | semaphorin 4B | protein_coding | 2 | 2 | 3 | 3 | 0.910 |
| 10512 | NM_001350120,NM | **SEMA3C** | semaphorin 3C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10513 | NM_001282476,NM | **APPBP2** | amyloid beta precursor p | protein_coding | 16 | 14 | 17 | 15 | 0.894 |
| 10514 | NM_001105538,NM | **MYBBP1A** | MYB binding protein 1a | protein_coding | 57 | 60 | 58 | 61 | 1.047 |
| 10516 | NM_006329,XM_00 | **FBLN5** | fibulin 5 | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 10517 | NM_001267585,NM | **FBXW10** | F-box and WD repeat do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10518 | NM_001271888,NM | **CIB2** | calcium and integrin binc | protein_coding | 0 | 1 | 1 | 2 | 1.270 |
| 10519 | NM_001277764,NM | **CIB1** | calcium and integrin binc | protein_coding | 79 | 86 | 80 | 87 | 1.095 |
| 10520 | NM_001265597,NM | **ZNF211** | zinc finger protein 211 | protein_coding | 9 | 8 | 10 | 9 | 0.918 |
| 10521 | NM_001098504,NM | **DDX17** | DEAD-box helicase 17 | protein_coding | 170 | 148 | 171 | 149 | 0.869 |
| 10522 | NM_001293634,NM | **DEAF1** | DEAF1 transcription fact | protein_coding | 21 | 24 | 22 | 25 | 1.156 |
| 10523 | NM_006387 | **CHERP** | calcium homeostasis enc | protein_coding | 65 | 65 | 66 | 66 | 1.004 |
| 10524 | NM_001206833,NM | **KAT5** | lysine acetyltransferase 5 | protein_coding | 31 | 40 | 32 | 41 | 1.277 |
| 10525 | NM_001130991,NM | **HYOU1** | hypoxia up-regulated 1 | protein_coding | 195 | 199 | 196 | 200 | 1.024 |
| 10526 | NM_001190995,NM | **IPO8** | importin 8 | protein_coding | 27 | 24 | 28 | 25 | 0.865 |
| 10527 | NM_006391 | **IPO7** | importin 7 | protein_coding | 182 | 154 | 183 | 155 | 0.847 |
| 10528 | NM_006392,NR_02 | **NOP56** | NOP56 ribonucleoprotein | protein_coding | 423 | 418 | 424 | 419 | 0.986 |
| 10529 | NM_001173484,NM | **NEBL** | nebulette | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10531 | NM_001242307,NM | **PITRM1** | pitrilysin metallopeptidas | protein_coding | 32 | 33 | 33 | 34 | 1.027 |
| 10533 | NM_001136031,NM | **ATG7** | autophagy related 7 | protein_coding | 7 | 7 | 8 | 8 | 0.965 |
| 10534 | NM_001303024,NM | **ZNRD2** | zinc ribbon domain conta | protein_coding | 110 | 116 | 111 | 117 | 1.060 |
| 10535 | NM_006397 | **RNASEH2A** | ribonuclease H2 subunit | protein_coding | 111 | 113 | 112 | 114 | 1.015 |
| 10536 | NM_014262 | **P3H3** | prolyl 3-hydroxylase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10537 | NM_006398 | **UBD** | ubiquitin D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10538 | NM_006399 | **BATF** | basic leucine zipper ATF | protein_coding | 95 | 112 | 96 | 113 | 1.174 |
| 10539 | NM_001199868,NM | **GLRX3** | glutaredoxin 3 | protein_coding | 115 | 108 | 116 | 109 | 0.938 |
| 10540 | NM_001261412,NM | **DCTN2** | dynactin subunit 2 | protein_coding | 84 | 82 | 85 | 83 | 0.976 |
| 10541 | NM_006401 | **ANP32B** | acidic nuclear phosphop | protein_coding | 451 | 473 | 452 | 474 | 1.049 |
| 10542 | NM_001382293,NM | **LAMTOR5** | late endosomal/lysosoma | protein_coding | 201 | 211 | 202 | 212 | 1.052 |
| 10544 | NM_006404,XM_01 | **PROCR** | protein C receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10548 | NM_001014842,NM | **TM9SF1** | transmembrane 9 superf | protein_coding | 19 | 21 | 20 | 22 | 1.088 |
| 10549 | NM_006406 | **PRDX4** | peroxiredoxin 4 | protein_coding | 144 | 146 | 145 | 147 | 1.010 |
| 10550 | NM_006407 | **ARL6IP5** | ADP ribosylation factor li | protein_coding | 126 | 124 | 127 | 125 | 0.982 |
| 10551 | NM_006408,XM_00 | **AGR2** | anterior gradient 2, prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10552 | NM_001190996,NM | **ARPC1A** | actin related protein 2/3 | protein_coding | 130 | 140 | 131 | 141 | 1.073 |
| 10553 | NM_001098520,NM | **HTATIP2** | HIV-1 Tat interactive prot | protein_coding | 28 | 30 | 29 | 31 | 1.058 |
| 10554 | NM_001371437,NM | **AGPAT1** | 1-acylglycerol-3-phospha | protein_coding | 82 | 82 | 83 | 83 | 1.002 |
| 10555 | NM_001012727,NM | **AGPAT2** | 1-acylglycerol-3-phospha | protein_coding | 2 | 2 | 3 | 3 | 1.056 |
| 10556 | NM_001104546,NM | **RPP30** | ribonuclease P/MRP sub | protein_coding | 24 | 21 | 25 | 22 | 0.904 |
| 10557 | NM_001097590,NM | **RPP38** | ribonuclease P/MRP sub | protein_coding | 19 | 20 | 20 | 21 | 1.052 |
| 10558 | NM_001281303,NM | **SPTLC1** | serine palmitoyltransfera | protein_coding | 75 | 66 | 76 | 67 | 0.890 |
| 10559 | NM_001168398,NM | **SLC35A1** | solute carrier family 35 r | protein_coding | 33 | 32 | 34 | 33 | 0.992 |
| 10560 | NM_001319667,NM | **SLC19A2** | solute carrier family 19 r | protein_coding | 6 | 5 | 7 | 6 | 0.801 |
| 10561 | NM_006417,NR_13 | **IFI44** | interferon induced protei | protein_coding | 69 | 54 | 70 | 55 | 0.776 |
| 10562 | NM_006418 | **OLFM4** | olfactomedin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10563 | NM_001371558,NM | **CXCL13** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.083 |
| 10564 | NM_006420,XM_00 | **ARFGEF2** | ADP ribosylation factor g | protein_coding | 46 | 39 | 47 | 40 | 0.857 |
| 10565 | NM_006421,XM_00 | **ARFGEF1** | ADP ribosylation factor g | protein_coding | 34 | 30 | 35 | 31 | 0.865 |
| 10566 | NM_001278309,NM | **AKAP3** | A-kinase anchoring prote | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 10567 | NM_006423 | **RABAC1** | Rab acceptor 1 | protein_coding | 154 | 161 | 155 | 162 | 1.045 |
| 10568 | NM_001177998,NM | **SLC34A2** | solute carrier family 34 r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10569 | NM_001364517,NM | **SLU7** | SLU7 homolog, splicing | protein_coding | 34 | 34 | 35 | 35 | 0.993 |
| 10570 | NM_006426,XM_00 | **DPYSL4** | dihydropyrimidinase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10572 | NM_006427,NM_02 | **SIVA1** | SIVA1 apoptosis inducing | protein_coding | 142 | 145 | 143 | 146 | 1.025 |
| 10573 | NM_006428,XM_00 | **MRPL28** | mitochondrial ribosomal | protein_coding | 163 | 162 | 164 | 163 | 0.996 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10574 | NM_001009570,NM | **CCT7** | chaperonin containing T( | protein_coding | 947 | 937 | 948 | 938 | 0.989 |
| 10575 | NM_001256721,NM | **CCT4** | chaperonin containing T( | protein_coding | 378 | 363 | 379 | 364 | 0.961 |
| 10576 | NM_001198842,NM | **CCT2** | chaperonin containing T( | protein_coding | 470 | 448 | 471 | 449 | 0.953 |
| 10577 | NM_001363688,NM | **NPC2** | NPC intracellular cholest | protein_coding | 46 | 44 | 47 | 45 | 0.965 |
| 10578 | NM_001302758,NM | **GNLY** | granulysin | protein_coding | 197 | 222 | 198 | 223 | 1.125 |
| 10579 | NM_001291876,NM | **TACC2** | transforming acidic coile | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10580 | NM_001034954,NM | **SORBS1** | sorbin and SH3 domain ( | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 10581 | NM_006435 | **IFITM2** | interferon induced transr | protein_coding | 46 | 51 | 47 | 52 | 1.126 |
| 10584 | NM_001324095,NM | **COLEC10** | collectin subfamily memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10585 | NM_001077365,NM | **POMT1** | protein O-mannosyltrans | protein_coding | 7 | 7 | 8 | 8 | 0.993 |
| 10586 | NM_006439 | **MAB21L2** | mab-21 like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10587 | NM_001282512,NM | **TXNRD2** | thioredoxin reductase 2 | protein_coding | 12 | 12 | 13 | 13 | 1.001 |
| 10588 | NM_001199758,NM | **MTHFS** | methenyltetrahydrofolate | protein_coding | 20 | 25 | 21 | 26 | 1.230 |
| 10589 | NM_006442 | **DRAP1** | DR1 associated protein 1 | protein_coding | 328 | 391 | 329 | 392 | 1.190 |
| 10590 | NM_006998,XM_01 | **SCGN** | secretagogin, EF-hand c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10591 | NM_006443,NM_19 | **DNPH1** | 2'-deoxynucleoside 5'-ph | protein_coding | 90 | 99 | 91 | 100 | 1.101 |
| 10592 | NM_001042550,NM | **SMC2** | structural maintenance o | protein_coding | 66 | 58 | 67 | 59 | 0.880 |
| 10594 | NM_006445,XM_02 | **PRPF8** | pre-mRNA processing fa | protein_coding | 120 | 109 | 121 | 110 | 0.906 |
| 10595 | NM_001308220,NM | **ERN2** | endoplasmic reticulum tc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10597 | NM_001355204 | **TRAPPC2B** | trafficking protein particl | protein_coding | 16 | 14 | 17 | 15 | 0.902 |
| 10598 | NM_001321441,NM | **AHSA1** | activator of HSP90 ATPa | protein_coding | 443 | 444 | 444 | 445 | 1.003 |
| 10599 | NM_006446 | **SLCO1B1** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10600 | NM_001001992,NM | **USP16** | ubiquitin specific peptida | protein_coding | 64 | 57 | 65 | 58 | 0.886 |
| 10602 | NM_001270436,NM | **CDC42EP3** | CDC42 effector protein 3 | protein_coding | 17 | 14 | 18 | 15 | 0.824 |
| 10603 | NM_001359228,NM | **SH2B2** | SH2B adaptor protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 10605 | NM_006451,NM_18 | **PAIP1** | poly(A) binding protein ir | protein_coding | 50 | 47 | 51 | 48 | 0.940 |
| 10606 | NM_001079524,NM | **PAICS** | phosphoribosylaminoimic | protein_coding | 430 | 411 | 431 | 412 | 0.957 |
| 10607 | NM_006453 | **TBL3** | transducin beta like 3 | protein_coding | 29 | 29 | 30 | 30 | 1.023 |
| 10608 | NM_006454 | **MXD4** | MAX dimerization protein | protein_coding | 4 | 5 | 5 | 6 | 1.043 |
| 10609 | NM_006455,XM_00 | **P3H4** | prolyl 3-hydroxylase fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10610 | NM_006456,XM_00 | **ST6GALNAC2** | ST6 N-acetylgalactosami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10611 | NM_001011513,NM | **PDLIM5** | PDZ and LIM domain 5 | protein_coding | 4 | 4 | 5 | 5 | 0.966 |
| 10612 | NM_001248006,NM | **TRIM3** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 10613 | NM_001100626,NM | **ERLIN1** | ER lipid raft associated 1 | protein_coding | 27 | 28 | 28 | 29 | 1.029 |
| 10614 | NM_006460 | **HEXIM1** | HEXIM P-TEFb complex | protein_coding | 81 | 89 | 82 | 90 | 1.098 |
| 10615 | NM_006461 | **SPAG5** | sperm associated antige | protein_coding | 107 | 95 | 108 | 96 | 0.895 |
| 10616 | NM_001323956,NM | **RBCK1** | RANBP2-type and C3HC | protein_coding | 109 | 106 | 110 | 107 | 0.976 |
| 10617 | NM_001353967,NM | **STAMBP** | STAM binding protein | protein_coding | 31 | 28 | 32 | 29 | 0.887 |
| 10618 | NM_001206844,NM | **TGOLN2** | trans-golgi network prote | protein_coding | 124 | 112 | 125 | 113 | 0.907 |
| 10620 | NM_001307939,NM | **ARID3B** | AT-rich interaction domai | protein_coding | 137 | 138 | 138 | 139 | 1.006 |
| 10621 | NM_001282526,NM | **POLR3F** | RNA polymerase III subu | protein_coding | 30 | 28 | 31 | 29 | 0.957 |
| 10622 | NM_001370351,NM | **POLR3G** | RNA polymerase III subu | protein_coding | 77 | 60 | 78 | 61 | 0.784 |
| 10623 | NM_001303456,NM | **POLR3C** | RNA polymerase III subu | protein_coding | 53 | 52 | 54 | 53 | 0.986 |
| 10625 | NM_006469,XM_00 | **IVNS1ABP** | influenza virus NS1A bin | protein_coding | 139 | 131 | 140 | 132 | 0.947 |
| 10626 | NM_001348119,NM | **TRIM16** | tripartite motif containing | protein_coding | 4 | 3 | 5 | 4 | 0.881 |
| 10627 | NM_001303047,NM | **MYL12A** | myosin light chain 12A | protein_coding | 684 | 650 | 685 | 651 | 0.950 |
| 10628 | NM_001313972,NM | **TXNIP** | thioredoxin interacting pr | protein_coding | 112 | 127 | 113 | 128 | 1.136 |
| 10629 | NM_006473,XM_00 | **TAF6L** | TATA-box binding protein | protein_coding | 15 | 14 | 16 | 15 | 0.959 |
| 10630 | NM_001006624,NM | **PDPN** | podoplanin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10631 | NM_001135934,NM | **POSTN** | periostin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10632 | NM_006476,NR_03 | **ATP5MG** | ATP synthase membrane | protein_coding | 519 | 517 | 520 | 518 | 0.997 |
| 10633 | NM_006477,XM_01 | **RASL10A** | RAS like family 10 memt | protein_coding | 1 | 1 | 2 | 2 | 0.782 |
| 10634 | NM_001278730,NM | **GAS2L1** | growth arrest specific 2 li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10635 | NM_001130862,NM | **RAD51AP1** | RAD51 associated protei | protein_coding | 33 | 31 | 34 | 32 | 0.943 |
| 10636 | NM_001366617,NM | **RGS14** | regulator of G protein sig | protein_coding | 51 | 54 | 52 | 55 | 1.055 |
| 10637 | NM_020997 | **LEFTY1** | left-right determination fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10640 | NM_006544,XM_00 | **EXOC5** | exocyst complex compor | protein_coding | 23 | 20 | 24 | 21 | 0.886 |
| 10641 | NM_006545,XM_00 | **NPRL2** | NPR2 like, GATOR1 com | protein_coding | 41 | 42 | 42 | 43 | 1.026 |
| 10642 | NM_001160423,NM | **IGF2BP1** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 10643 | NM_006547,XM_00 | **IGF2BP3** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 10644 | NM_001007225,NM | **IGF2BP2** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10645 | NM_001270485,NM | **CAMKK2** | calcium/calmodulin depe | protein_coding | 28 | 27 | 29 | 28 | 0.962 |
| 10647 | NM_006551 | **SCGB1D2** | secretoglobin family 1D r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10648 | NM_006552 | **SCGB1D1** | secretoglobin family 1D r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10650 | NM_001142405,NM | **PRELID3A** | PRELI domain containing | protein_coding | 2 | 2 | 3 | 3 | 1.081 |
| 10651 | NM_001006635,NM | **MTX2** | metaxin 2 | protein_coding | 150 | 146 | 151 | 147 | 0.974 |
| 10652 | NM_001363678,NM | **YKT6** | YKT6 v-SNARE homolog | protein_coding | 78 | 78 | 79 | 79 | 1.003 |
| 10653 | NM_001166103,NM | **SPINT2** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10654 | NM_001323011,NM | **PMVK** | phosphomevalonate kina | protein_coding | 140 | 148 | 141 | 149 | 1.060 |
| 10655 | NM_001130865,NM | **DMRT2** | doublesex and mab-3 rel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10656 | NM_006558,XM_00 | **KHDRBS3** | KH RNA binding domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10657 | NM_001271878,NM | **KHDRBS1** | KH RNA binding domain | protein_coding | 258 | 257 | 259 | 258 | 0.994 |
| 10658 | NM_001025596,NM | **CELF1** | CUGBP Elav-like family r | protein_coding | 96 | 80 | 97 | 81 | 0.841 |
| 10659 | NM_001025076,NM | **CELF2** | CUGBP Elav-like family r | protein_coding | 47 | 44 | 48 | 45 | 0.952 |
| 10660 | NM_006562 | **LBX1** | ladybird homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10661 | NM_006563 | **KLF1** | Kruppel like factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10663 | NM_006564,XM_00 | **CXCR6** | C-X-C motif chemokine r | protein_coding | 0 | 0 | 1 | 1 | 1.110 |
| 10664 | NM_001191022,NM | **CTCF** | CCCTC-binding factor | protein_coding | 72 | 71 | 73 | 72 | 0.998 |
| 10665 | NM_001286474,NM | **TSBP1** | testis expressed basic pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10666 | NM_001303618,NM | **CD226** | CD226 molecule | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 10667 | NM_001318872,NM | **FARS2** | phenylalanyl-tRNA synth | protein_coding | 16 | 19 | 17 | 20 | 1.153 |
| 10668 | NM_006568,XM_01 | **CGRRF1** | cell growth regulator with | protein_coding | 10 | 9 | 11 | 10 | 0.899 |
| 10669 | NM_001166239,NM | **CGREF1** | cell growth regulator with | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10670 | NM_006570 | **RRAGA** | Ras related GTP binding | protein_coding | 32 | 32 | 33 | 33 | 1.000 |
| 10671 | NM_006571 | **DCTN6** | dynactin subunit 6 | protein_coding | 56 | 58 | 57 | 59 | 1.035 |
| 10672 | NM_001282425,NM | **GNA13** | G protein subunit alpha 1 | protein_coding | 100 | 84 | 101 | 85 | 0.848 |
| 10673 | NM_001145645,NM | **TNFSF13B** | TNF superfamily membe | protein_coding | 1 | 1 | 2 | 2 | 0.933 |
| 10675 | NM_001206942,NM | **CSPG5** | chondroitin sulfate prote | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 10677 | NM_006576,XM_01 | **AVIL** | advillin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10678 | NM_001319075,NM | **B3GNT2** | UDP-GlcNAc:betaGal be | protein_coding | 43 | 40 | 44 | 41 | 0.920 |
| 10681 | NM_001379343,NM | **GNB5** | G protein subunit beta 5 | protein_coding | 24 | 18 | 25 | 19 | 0.740 |
| 10682 | NM_006579 | **EBP** | EBP cholestenol delta-is | protein_coding | 500 | 552 | 501 | 553 | 1.105 |
| 10683 | NM_016941,NM_20 | **DLL3** | delta like canonical Notcl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10686 | NM_001378492,NM | **CLDN16** | claudin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10687 | NM_007257,XM_01 | **PNMA2** | PNMA family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10690 | NM_006581,XM_01 | **FUT9** | fucosyltransferase 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10691 | NM_001319674,NM | **GMEB1** | glucocorticoid modulator | protein_coding | 7 | 7 | 8 | 8 | 0.963 |
| 10692 | NM_006583 | **RRH** | retinal pigment epitheliur | protein_coding | 0 | 0 | 1 | 1 | 0.922 |
| 10693 | NM_001193529,NM | **CCT6B** | chaperonin containing T( | protein_coding | 1 | 1 | 2 | 2 | 0.926 |
| 10694 | NM_001282907,NM | **CCT8** | chaperonin containing T( | protein_coding | 666 | 627 | 667 | 628 | 0.942 |
| 10695 | NM_001318842,NM | **CNPY3** | canopy FGF signaling re | protein_coding | 96 | 114 | 97 | 115 | 1.181 |
| 10699 | NM_001278585,NM | **CORIN** | corin, serine peptidase | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 10712 | NM_001267608,NM | **FAM189B** | family with sequence sim | protein_coding | 9 | 10 | 10 | 11 | 1.174 |
| 10713 | NM_001256725,NM | **USP39** | ubiquitin specific peptida | protein_coding | 154 | 143 | 155 | 144 | 0.931 |
| 10714 | NM_001363597,NM | **POLD3** | DNA polymerase delta 3, | protein_coding | 54 | 54 | 55 | 55 | 1.000 |
| 10715 | NM_001290265,NM | **CERS1** | ceramide synthase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10716 | NM_006593 | **TBR1** | T-box brain transcription | protein_coding | 0 | 0 | 1 | 1 | 1.123 |
| 10717 | NM_001253852,NM | **AP4B1** | adaptor related protein c | protein_coding | 48 | 46 | 49 | 47 | 0.952 |
| 10718 | NM_001010848,NM | **NRG3** | neuregulin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10720 | NM_001073,XM_01 | **UGT2B11** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10721 | NM_199420 | **POLQ** | DNA polymerase theta | protein_coding | 24 | 20 | 25 | 21 | 0.843 |
| 10723 | NM_006598,XM_00 | **SLC12A7** | solute carrier family 12 m | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 10724 | NM_001142434,NM | **OGA** | O-GlcNAcase | protein_coding | 43 | 42 | 44 | 43 | 0.971 |
| 10725 | NM_001113178,NM | **NFAT5** | nuclear factor of activate | protein_coding | 15 | 11 | 16 | 12 | 0.774 |
| 10726 | NM_006600,XM_01 | **NUDC** | nuclear distribution C, dy | protein_coding | 489 | 525 | 490 | 526 | 1.074 |
| 10728 | NM_001282601,NM | **PTGES3** | prostaglandin E synthas | protein_coding | 539 | 522 | 540 | 523 | 0.968 |
| 10730 | NM_001253866,NM | **YME1L1** | YME1 like 1 ATPase | protein_coding | 49 | 44 | 50 | 45 | 0.890 |
| 10732 | NM_001301726,NM | **TCFL5** | transcription factor like 5 | protein_coding | 14 | 14 | 15 | 15 | 0.999 |
| 10733 | NM_001190799,NM | **PLK4** | polo like kinase 4 | protein_coding | 36 | 31 | 37 | 32 | 0.856 |
| 10734 | NM_001282716,NM | **STAG3** | stromal antigen 3 | protein_coding | 7 | 8 | 8 | 9 | 1.129 |
| 10735 | NM_001042749,NM | **STAG2** | stromal antigen 2 | protein_coding | 140 | 124 | 141 | 125 | 0.887 |
| 10736 | NM_016932,XM_00 | **SIX2** | SIX homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10737 | NR_001450,NR_00 | **RFPL3S** | RFPL3 antisense | lncRNA | 1 | 0 | 2 | 1 | 0.481 |
| 10738 | NM_001098535,NM | **RFPL3** | ret finger protein like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10739 | NM_001098527,NM | **RFPL2** | ret finger protein like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10740 | NR_002727 | **RFPL1S** | RFPL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10741 | NM_006606,XM_00 | **RBBP9** | RB binding protein 9, ser | protein_coding | 16 | 16 | 17 | 17 | 0.989 |
| 10742 | NM_001172732,NM | **RAI2** | retinoic acid induced 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10743 | NM_030665,XM_01 | **RAI1** | retinoic acid induced 1 | protein_coding | 7 | 7 | 8 | 8 | 0.981 |
| 10744 | NM_006607 | **PTTG2** | pituitary tumor-transform | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10745 | NM_001323041,NM | **PHTF1** | putative homeodomain tr | protein_coding | 27 | 24 | 28 | 25 | 0.896 |
| 10746 | NM_001371910,NM | **MAP3K2** | mitogen-activated protein | protein_coding | 19 | 15 | 20 | 16 | 0.809 |
| 10747 | NM_006610,NM_13 | **MASP2** | mannan binding lectin se | protein_coding | 0 | 0 | 1 | 1 | 0.714 |
| 10748 | NR_028045 | **KLRA1P** | killer cell lectin like recep | transcribed_pseu | 2 | 1 | 3 | 2 | 0.923 |
| 10749 | NM_006612,XM_00 | **KIF1C** | kinesin family member 1 | protein_coding | 2 | 3 | 3 | 4 | 1.141 |
| 10750 | NM_001330148,NM | **GRAP** | GRB2 related adaptor pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10752 | NM_001253387,NM | **CHL1** | cell adhesion molecule L | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10753 | NM_001319676,NM | **CAPN9** | calpain 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10755 | NM_005716,NM_20 | **GIPC1** | GIPC PDZ domain conta | protein_coding | 0 | 0 | 1 | 1 | 0.816 |
| 10758 | NM_001164281,NM | **TRAF3IP2** | TRAF3 interacting protein | protein_coding | 0 | 0 | 1 | 1 | 0.917 |
| 10761 | NM_001316887,NM | **PLAC1** | placenta enriched 1 | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 10762 | NM_007172,NM_15 | **NUP50** | nucleoporin 50 | protein_coding | 106 | 99 | 107 | 100 | 0.932 |
| 10763 | NM_006617 | **NES** | nestin | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 10765 | NM_001314042,NM | **KDM5B** | lysine demethylase 5B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10766 | NM_016272,XM_00 | **TOB2** | transducer of ERBB2, 2 | protein_coding | 28 | 26 | 29 | 27 | 0.933 |
| 10767 | NM_001145158,NM | **HBS1L** | HBS1 like translational G | protein_coding | 43 | 42 | 44 | 43 | 0.962 |
| 10768 | NM_001242673,NM | **AHCYL1** | adenosylhomocysteinase | protein_coding | 129 | 121 | 130 | 122 | 0.935 |
| 10769 | NM_001252226,NM | **PLK2** | polo like kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10771 | NM_001202464,NM | **ZMYND11** | zinc finger MYND-type co | protein_coding | 11 | 12 | 12 | 13 | 1.076 |
| 10772 | NM_001191005,NM | **SRSF10** | serine and arginine rich s | protein_coding | 128 | 114 | 129 | 115 | 0.896 |
| 10773 | NM_006626 | **ZBTB6** | zinc finger and BTB dom | protein_coding | 12 | 11 | 13 | 12 | 0.927 |
| 10775 | NM_006627,NR_02 | **POP4** | POP4 homolog, ribonucl | protein_coding | 134 | 133 | 135 | 134 | 0.987 |
| 10776 | NM_001306191,NM | **ARPP19** | cAMP regulated phosphc | protein_coding | 169 | 145 | 170 | 146 | 0.859 |
| 10777 | NM_001025068,NM | **ARPP21** | cAMP regulated phosphc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10778 | NR_024565,NR_02 | **ZNF271P** | zinc finger protein 271, p | transcribed_pseu | 22 | 20 | 23 | 21 | 0.903 |
| 10780 | NM_001144824,NM | **ZNF234** | zinc finger protein 234 | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 10781 | NM_001271314,NM | **ZNF266** | zinc finger protein 266 | protein_coding | 30 | 27 | 31 | 28 | 0.920 |
| 10782 | NM_001278734,NM | **ZNF274** | zinc finger protein 274 | protein_coding | 10 | 11 | 11 | 12 | 1.073 |
| 10783 | NM_001145001,NM | **NEK6** | NIMA related kinase 6 | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 10785 | NM_001260474,NM | **WDR4** | WD repeat domain 4 | protein_coding | 56 | 55 | 57 | 56 | 0.983 |
| 10786 | NM_001098486,NM | **SLC17A3** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10787 | NM_013436,NM_20 | **NCKAP1** | NCK associated protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 10788 | NM_001285460,NM | **IQGAP2** | IQ motif containing GTPa | protein_coding | 120 | 111 | 121 | 112 | 0.924 |
| 10789 | gene-NUDCP2 | **NUDCP2** | nuclear distribution C ps | pseudogene | 0 | 0 | 1 | 1 | 1.231 |
| 10790 | gene-NUDCP1 | **NUDCP1** | nuclear distribution C ps | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 10791 | NM_006634 | **VAMP5** | vesicle associated memb | protein_coding | 26 | 31 | 27 | 32 | 1.181 |
| 10793 | NM_021148,NR_00 | **ZNF273** | zinc finger protein 273 | protein_coding | 12 | 11 | 13 | 12 | 0.944 |
| 10794 | NM_001330622,NM | **ZNF460** | zinc finger protein 460 | protein_coding | 5 | 4 | 6 | 5 | 0.951 |
| 10795 | NM_001165881,NM | **ZNF268** | zinc finger protein 268 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10797 | NM_006636,NR_02 | **MTHFD2** | methylenetetrahydrofola | protein_coding | 262 | 233 | 263 | 234 | 0.892 |
| 10798 | NM_006637 | **OR5I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10799 | NM_001286132,NM | **RPP40** | ribonuclease P/MRP sub | protein_coding | 30 | 28 | 31 | 29 | 0.953 |
| 10800 | NM_001282186,NM | **CYSLTR1** | cysteinyl leukotriene rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10801 | NM_001113491,NM | **SEPTIN9** | septin 9 | protein_coding | 124 | 110 | 125 | 111 | 0.888 |
| 10802 | NM_001252231,NM | **SEC24A** | SEC24 homolog A, COP | protein_coding | 29 | 24 | 30 | 25 | 0.826 |
| 10803 | NM_001256369,NM | **CCR9** | C-C motif chemokine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10804 | NM_001110219,NM | **GJB6** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10806 | NM_001350246,NM | **SDCCAG8** | SHH signaling and ciliog | protein_coding | 7 | 5 | 8 | 6 | 0.796 |
| 10807 | NM_001039707,NM | **ENTR1** | endosome associated tra | protein_coding | 28 | 27 | 29 | 28 | 0.960 |
| 10808 | NM_001286503,NM | **HSPH1** | heat shock protein family | protein_coding | 256 | 235 | 257 | 236 | 0.918 |
| 10809 | NM_006645 | **STARD10** | StAR related lipid transfe | protein_coding | 3 | 3 | 4 | 4 | 0.906 |
| 10810 | NM_001291965,NM | **WASF3** | WASP family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10811 | NM_001256067,NM | **NOXA1** | NADPH oxidase activator | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10813 | NM_001166221,NM | **UTP14A** | UTP14A small subunit pr | protein_coding | 64 | 60 | 65 | 61 | 0.941 |
| 10814 | NM_001008220,NM | **CPLX2** | complexin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10815 | NM_006651,XM_01 | **CPLX1** | complexin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10816 | NM_006652 | **SPINT3** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10817 | NM_006653,XM_01 | **FRS3** | fibroblast growth factor r | protein_coding | 5 | 6 | 6 | 7 | 1.266 |
| 10818 | NM_001042555,NM | **FRS2** | fibroblast growth factor r | protein_coding | 3 | 3 | 4 | 4 | 0.883 |
| 10819 | NR_045002 | **OR7E14P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 10821 | NR_044999 | **OR7E12P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 0.998 |
| 10824 | NR_125391 | **DIAPH2-AS1** | DIAPH2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 10825 | NM_001367860,NM | **NEU3** | neuraminidase 3 | protein_coding | 51 | 46 | 52 | 47 | 0.904 |
| 10826 | NM_032385,XM_00 | **FAXDC2** | fatty acid hydroxylase do | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 10827 | NM_001317993,NM | **FAM114A2** | family with sequence sim | protein_coding | 17 | 14 | 18 | 15 | 0.841 |
| 10838 | NM_001080485,NM | **ZNF275** | zinc finger protein 275 | protein_coding | 10 | 10 | 11 | 11 | 0.977 |
| 10840 | NM_001270364,NM | **ALDH1L1** | aldehyde dehydrogenase | protein_coding | 18 | 18 | 19 | 19 | 0.990 |
| 10841 | NM_001320412,NM | **FTCD** | formimidoyltransferase c | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 10842 | NM_001145123,NM | **PPP1R17** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10844 | NM_001256617,NM | **TUBGCP2** | tubulin gamma complex | protein_coding | 29 | 32 | 30 | 33 | 1.096 |
| 10845 | NM_006660,NR_13 | **CLPX** | caseinolytic mitochondria | protein_coding | 47 | 44 | 48 | 45 | 0.943 |
| 10846 | NM_001130690,NM | **PDE10A** | phosphodiesterase 10A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10847 | NM_006662 | **SRCAP** | Snf2 related CREBBP ac | protein_coding | 56 | 53 | 57 | 54 | 0.948 |
| 10848 | NM_001142502,NM | **PPP1R13L** | protein phosphatase 1 re | protein_coding | 2 | 2 | 3 | 3 | 0.895 |
| 10849 | NM_001297590,NM | **POLR1G** | RNA polymerase I subun | protein_coding | 74 | 66 | 75 | 67 | 0.889 |
| 10850 | NM_006664 | **CCL27** | C-C motif chemokine liga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10855 | NM_001098540,NM | **HPSE** | heparanase | protein_coding | 3 | 3 | 4 | 4 | 0.924 |
| 10856 | NM_001321190,NM | **RUVBL2** | RuvB like AAA ATPase 2 | protein_coding | 241 | 300 | 242 | 301 | 1.241 |
| 10857 | NM_001282621,NM | **PGRMC1** | progesterone receptor m | protein_coding | 86 | 85 | 87 | 86 | 0.991 |
| 10858 | NM_006668,XM_00 | **CYP46A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10859 | NM_001081637,NM | **LILRB1** | leukocyte immunoglobul | protein_coding | 19 | 19 | 20 | 20 | 0.973 |
| 10861 | NM_022042,NM_13 | **SLC26A1** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10863 | NM_001304351,NM | **ADAM28** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 0.872 |
| 10864 | NM_006672,NM_15 | **SLC22A7** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10865 | NM_001319085,NM | **ARID5A** | AT-rich interaction domai | protein_coding | 15 | 15 | 16 | 16 | 1.030 |
| 10866 | NR_040662 | **HCP5** | HLA complex P5 | lncRNA | 158 | 130 | 159 | 131 | 0.823 |
| 10867 | NM_001168320,NM | **TSPAN9** | tetraspanin 9 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 10868 | NM_001008563,NM | **USP20** | ubiquitin specific peptida | protein_coding | 32 | 31 | 33 | 32 | 0.980 |
| 10869 | NM_001199160,NM | **USP19** | ubiquitin specific peptida | protein_coding | 40 | 40 | 41 | 41 | 1.011 |
| 10870 | NM_001007469,NM | **HCST** | hematopoietic cell signal | protein_coding | 300 | 323 | 301 | 324 | 1.075 |
| 10871 | NM_006678,XM_01 | **CD300C** | CD300c molecule | protein_coding | 30 | 31 | 31 | 32 | 1.052 |
| 10873 | NM_001014811,NM | **ME3** | malic enzyme 3 | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 10874 | NM_001292045,NM | **NMU** | neuromedin U | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10875 | NM_006682 | **FGL2** | fibrinogen like 2 | protein_coding | 2 | 2 | 3 | 3 | 1.015 |
| 10876 | NM_006683,XM_01 | **EDDM3A** | epididymal protein 3A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10877 | NM_001201550,NM | **CFHR4** | complement factor H rela | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10878 | NM_001166624,NM | **CFHR3** | complement factor H rela | protein_coding | 0 | 0 | 1 | 1 | 0.822 |
| 10879 | NM_006685 | **SMR3B** | submaxillary gland andro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10880 | NM_006686 | **ACTL7B** | actin like 7B | protein_coding | 0 | 0 | 1 | 1 | 0.845 |
| 10881 | NM_006687 | **ACTL7A** | actin like 7A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10882 | NM_006688 | **C1QL1** | complement C1q like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10884 | NM_016640 | **MRPS30** | mitochondrial ribosomal | protein_coding | 105 | 99 | 106 | 100 | 0.947 |
| 10885 | NM_006784 | **WDR3** | WD repeat domain 3 | protein_coding | 54 | 48 | 55 | 49 | 0.901 |
| 10886 | NM_001144756,NM | **NPFFR2** | neuropeptide FF recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10887 | NM_138964 | **PROKR1** | prokineticin receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 10888 | NM_001330345,NM | **GPR83** | G protein-coupled recep | protein_coding | 1 | 1 | 2 | 2 | 0.856 |
| 10890 | NM_016131,XM_02 | **RAB10** | RAB10, member RAS on | protein_coding | 98 | 86 | 99 | 87 | 0.884 |
| 10891 | NM_001330751,NM | **PPARGC1A** | PPARG coactivator 1 alp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10892 | NM_006785,NM_17 | **MALT1** | MALT1 paracaspase | protein_coding | 9 | 9 | 10 | 10 | 0.954 |
| 10893 | NM_006690,XM_01 | **MMP24** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10894 | NM_006691 | **LYVE1** | lymphatic vessel endothe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10895 | NR_026769 | **PPBPP2** | pro-platelet basic protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 10897 | NM_001300861,NM | **YIF1A** | Yip1 interacting factor ho | protein_coding | 168 | 174 | 169 | 175 | 1.036 |
| 10898 | NM_001081559,NM | **CPSF4** | cleavage and polyadenyl | protein_coding | 112 | 106 | 113 | 107 | 0.949 |
| 10899 | NM_006694 | **JTB** | jumping translocation bre | protein_coding | 297 | 304 | 298 | 305 | 1.023 |
| 10900 | NM_001144825,NM | **RUNDC3A** | RUN domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10901 | NM_001282987,NM | **DHRS4** | dehydrogenase/reductas | protein_coding | 13 | 17 | 14 | 18 | 1.284 |
| 10902 | NM_001164326,NM | **BRD8** | bromodomain containing | protein_coding | 50 | 54 | 51 | 55 | 1.080 |
| 10903 | NM_001145862,NM | **MTMR11** | myotubularin related pro | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 10904 | NM_001167820,NM | **BLCAP** | BLCAP apoptosis inducir | protein_coding | 118 | 131 | 119 | 132 | 1.112 |
| 10905 | NM_006699,XM_00 | **MAN1A2** | mannosidase alpha class | protein_coding | 18 | 14 | 19 | 15 | 0.802 |
| 10906 | NM_001143906,NM | **TRAFD1** | TRAF-type zinc finger do | protein_coding | 56 | 58 | 57 | 59 | 1.033 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10907 | NM_001303471,NM | **TXNL4A** | thioredoxin like 4A | protein_coding | 65 | 64 | 66 | 65 | 0.980 |
| 10908 | NM_001166111,NM | **PNPLA6** | patatin like phospholipas | protein_coding | 43 | 44 | 44 | 45 | 1.009 |
| 10910 | NM_001130912,NM | **SUGT1** | SGT1 homolog, MIS12 k | protein_coding | 15 | 14 | 16 | 15 | 0.930 |
| 10911 | NM_006786,NM_02 | **UTS2** | urotensin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10912 | NM_006705,XM_01 | **GADD45G** | growth arrest and DNA d | protein_coding | 2 | 3 | 3 | 4 | 1.095 |
| 10913 | NM_022336,XM_00 | **EDAR** | ectodysplasin A receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10914 | NM_001252006,NM | **PAPOLA** | poly(A) polymerase alph | protein_coding | 159 | 138 | 160 | 139 | 0.872 |
| 10915 | NM_001040006,NM | **TCERG1** | transcription elongation r | protein_coding | 86 | 74 | 87 | 75 | 0.862 |
| 10916 | NM_014599,NM_17 | **MAGED2** | MAGE family member D2 | protein_coding | 31 | 35 | 32 | 36 | 1.149 |
| 10917 | NM_197975 | **BTNL3** | butyrophilin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10919 | NM_001289413,NM | **EHMT2** | euchromatic histone lysir | protein_coding | 52 | 54 | 53 | 55 | 1.044 |
| 10920 | NM_006710,NM_19 | **COPS8** | COP9 signalosome subu | protein_coding | 81 | 74 | 82 | 75 | 0.925 |
| 10921 | NM_001286625,NM | **RNPS1** | RNA binding protein with | protein_coding | 406 | 406 | 407 | 407 | 1.000 |
| 10922 | NM_001258461,NM | **FASTK** | Fas activated serine/thre | protein_coding | 36 | 39 | 37 | 40 | 1.082 |
| 10923 | NM_006713,XM_01 | **SUB1** | SUB1 regulator of transc | protein_coding | 203 | 191 | 204 | 192 | 0.944 |
| 10924 | NM_001286138,NM | **SMPDL3A** | sphingomyelin phosphoc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10926 | NM_001318060,NM | **DBF4** | DBF4 zinc finger | protein_coding | 96 | 88 | 97 | 89 | 0.913 |
| 10927 | NM_006717 | **SPIN1** | spindlin 1 | protein_coding | 23 | 19 | 24 | 20 | 0.853 |
| 10928 | NM_006788 | **RALBP1** | ralA binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10929 | NM_032102,NR_10 | **SRSF8** | serine and arginine rich s | protein_coding | 25 | 27 | 26 | 28 | 1.099 |
| 10930 | NM_006789 | **APOBEC2** | apolipoprotein B mRNA e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10933 | NM_001265603,NM | **MORF4L1** | mortality factor 4 like 1 | protein_coding | 372 | 346 | 373 | 347 | 0.930 |
| 10934 | gene-MORF4 | **MORF4** | mortality factor 4 (pseud | pseudogene | 0 | 0 | 1 | 1 | 1.091 |
| 10935 | NM_001302272,NM | **PRDX3** | peroxiredoxin 3 | protein_coding | 385 | 365 | 386 | 366 | 0.948 |
| 10936 | NM_006794 | **GPR75** | G protein-coupled recep | protein_coding | 1 | 2 | 2 | 3 | 1.309 |
| 10938 | NM_001282444,NM | **EHD1** | EH domain containing 1 | protein_coding | 64 | 66 | 65 | 67 | 1.038 |
| 10939 | NM_006796,XM_01 | **AFG3L2** | AFG3 like matrix AAA pe | protein_coding | 68 | 69 | 69 | 70 | 1.005 |
| 10940 | NM_001145860,NM | **POP1** | POP1 homolog, ribonucl | protein_coding | 45 | 42 | 46 | 43 | 0.934 |
| 10941 | NM_001252274,NM | **UGT2A1** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10942 | NM_001270452,NM | **PRSS21** | serine protease 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10943 | NM_001193270,NM | **MSL3** | MSL complex subunit 3 | protein_coding | 15 | 13 | 16 | 14 | 0.870 |
| 10944 | NM_014267,XM_01 | **C11orf58** | chromosome 11 open rea | protein_coding | 140 | 132 | 141 | 133 | 0.942 |
| 10945 | NM_006801 | **KDELR1** | KDEL endoplasmic retic | protein_coding | 110 | 110 | 111 | 111 | 0.998 |
| 10946 | NM_001320830,NM | **SF3A3** | splicing factor 3a subuni | protein_coding | 217 | 213 | 218 | 214 | 0.984 |
| 10947 | NM_001134296,NM | **AP3M2** | adaptor related protein c | protein_coding | 35 | 28 | 36 | 29 | 0.813 |
| 10948 | NM_001165937,NM | **STARD3** | StAR related lipid transfe | protein_coding | 45 | 43 | 46 | 44 | 0.958 |
| 10949 | NM_006805 | **HNRNPA0** | heterogeneous nuclear r | protein_coding | 105 | 114 | 106 | 115 | 1.083 |
| 10950 | NM_001130914,NM | **BTG3** | BTG anti-proliferation fac | protein_coding | 57 | 56 | 58 | 57 | 0.984 |
| 10951 | NM_001127228,NM | **CBX1** | chromobox 1 | protein_coding | 138 | 135 | 139 | 136 | 0.981 |
| 10952 | NM_006808 | **SEC61B** | SEC61 translocon subur | protein_coding | 242 | 265 | 243 | 266 | 1.093 |
| 10953 | NM_006809,XM_00 | **TOMM34** | translocase of outer mito | protein_coding | 94 | 100 | 95 | 101 | 1.064 |
| 10954 | NM_006810,NR_02 | **PDIA5** | protein disulfide isomera | protein_coding | 11 | 11 | 12 | 12 | 1.005 |
| 10955 | NM_006811,NM_19 | **SERINC3** | serine incorporator 3 | protein_coding | 73 | 71 | 74 | 72 | 0.981 |
| 10956 | NM_001017956,NM | **OS9** | OS9 endoplasmic reticul | protein_coding | 88 | 92 | 89 | 93 | 1.048 |
| 10957 | NM_006813,XR_00 | **PNRC1** | proline rich nuclear rece | protein_coding | 10 | 11 | 11 | 12 | 1.014 |
| 10959 | NM_001321445,NM | **TMED2** | transmembrane p24 traff | protein_coding | 163 | 152 | 164 | 153 | 0.934 |
| 10960 | NM_006816 | **LMAN2** | lectin, mannose binding | protein_coding | 334 | 362 | 335 | 363 | 1.082 |
| 10961 | NM_001034025,NM | **ERP29** | endoplasmic reticulum p | protein_coding | 179 | 186 | 180 | 187 | 1.043 |
| 10962 | NM_006818 | **MLLT11** | MLLT11 transcription fac | protein_coding | 1 | 2 | 2 | 3 | 1.144 |
| 10963 | NM_001282652,NM | **STIP1** | stress induced phospho | protein_coding | 493 | 482 | 494 | 483 | 0.977 |
| 10964 | NM_001375646,NM | **IFI44L** | interferon induced protei | protein_coding | 21 | 15 | 22 | 16 | 0.730 |
| 10965 | NM_001364177,NM | **ACOT2** | acyl-CoA thioesterase 2 | protein_coding | 12 | 13 | 13 | 14 | 1.014 |
| 10966 | NM_006822,XM_00 | **RAB40B** | RAB40B, member RAS c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10969 | NM_001159936,NM | **EBNA1BP2** | EBNA1 binding protein 2 | protein_coding | 336 | 345 | 337 | 346 | 1.025 |
| 10970 | NM_006825 | **CKAP4** | cytoskeleton associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10971 | NM_006826 | **YWHAQ** | tyrosine 3-monooxygena | protein_coding | 366 | 354 | 367 | 355 | 0.967 |
| 10972 | NM_006827 | **TMED10** | transmembrane p24 traff | protein_coding | 113 | 106 | 114 | 107 | 0.941 |
| 10973 | NM_001284271,NM | **ASCC3** | activating signal cointegr | protein_coding | 34 | 28 | 35 | 29 | 0.826 |
| 10974 | NM_006829 | **ADIRF** | adipogenesis regulatory | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10975 | NM_006830 | **UQCR11** | ubiquinol-cytochrome c r | protein_coding | 123 | 139 | 124 | 140 | 1.131 |
| 10978 | NM_001142597,NM | **CLP1** | cleavage factor polyribon | protein_coding | 37 | 38 | 38 | 39 | 1.014 |
| 10979 | NM_001134999,NM | **FERMT2** | fermitin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 10980 | NM_006833 | **COPS6** | COP9 signalosome subu | protein_coding | 146 | 163 | 147 | 164 | 1.116 |
| 10981 | NM_006834 | **RAB32** | RAB32, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10982 | NM_001143826,NM | **MAPRE2** | microtubule associated p | protein_coding | 32 | 29 | 33 | 30 | 0.930 |
| 10983 | NM_001348132,NM | **CCNI** | cyclin I | protein_coding | 119 | 114 | 120 | 115 | 0.954 |
| 10984 | NR_002728 | **KCNQ1OT1** | KCNQ1 opposite strand/ | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 10985 | NM_006836 | **GCN1** | GCN1 activator of EIF2A | protein_coding | 56 | 53 | 57 | 54 | 0.937 |
| 10987 | NM_006837 | **COPS5** | COP9 signalosome subu | protein_coding | 175 | 177 | 176 | 178 | 1.016 |
| 10988 | NM_001317182,NM | **METAP2** | methionyl aminopeptidas | protein_coding | 136 | 124 | 137 | 125 | 0.914 |
| 10989 | NM_001100169,NM | **IMMT** | inner membrane mitochc | protein_coding | 111 | 103 | 112 | 104 | 0.930 |
| 10990 | NM_001081442,NM | **LILRB5** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10991 | NM_006841,XM_00 | **SLC38A3** | solute carrier family 38 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10992 | NM_006842,XM_00 | **SF3B2** | splicing factor 3b subuni | protein_coding | 290 | 287 | 291 | 288 | 0.989 |
| 10993 | NM_006843 | **SDS** | serine dehydratase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 10994 | NM_006844,XM_00 | **ILVBL** | ilvB acetolactate synthas | protein_coding | 19 | 17 | 20 | 18 | 0.931 |
| 10998 | NM_001321196,NM | **SLC27A5** | solute carrier family 27 m | protein_coding | 10 | 12 | 11 | 13 | 1.154 |
| 10999 | NM_005094,XM_01 | **SLC27A4** | solute carrier family 27 m | protein_coding | 22 | 22 | 23 | 23 | 1.012 |
| 11000 | NM_001317929,NM | **SLC27A3** | solute carrier family 27 m | protein_coding | 26 | 27 | 27 | 28 | 1.058 |
| 11001 | NM_001159629,NM | **SLC27A2** | solute carrier family 27 m | protein_coding | 88 | 78 | 89 | 79 | 0.892 |
| 11004 | NM_001297655,NM | **KIF2C** | kinesin family member 2 | protein_coding | 152 | 150 | 153 | 151 | 0.986 |
| 11005 | NM_001127698,NM | **SPINK5** | serine peptidase inhibito | protein_coding | 0 | 1 | 1 | 2 | 1.202 |
| 11006 | NM_001278426,NM | **LILRB4** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 11007 | NM_006848 | **CCDC85B** | coiled-coil domain contai | protein_coding | 103 | 131 | 104 | 132 | 1.275 |
| 11009 | NM_001185156,NM | **IL24** | interleukin 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11010 | NM_006851,XM_01 | **GLIPR1** | GLI pathogenesis relatec | protein_coding | 37 | 31 | 38 | 32 | 0.855 |
| 11011 | NM_001284333,NM | **TLK2** | tousled like kinase 2 | protein_coding | 38 | 33 | 39 | 34 | 0.882 |
| 11012 | NM_001136032,NM | **KLK11** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11013 | NM_021992 | **TMSB15A** | thymosin beta 15a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11014 | NM_001100603,NM | **KDELR2** | KDEL endoplasmic retic | protein_coding | 78 | 69 | 79 | 70 | 0.889 |
| 11015 | NM_006855,NM_01 | **KDELR3** | KDEL endoplasmic retic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11016 | NM_001130060,NM | **ATF7** | activating transcription fa | protein_coding | 11 | 11 | 12 | 12 | 1.007 |
| 11017 | NM_006857,NR_03 | **SNRNP27** | small nuclear ribonucleo | protein_coding | 114 | 108 | 115 | 109 | 0.948 |
| 11018 | NM_006858,NR_10 | **TMED1** | transmembrane p24 traff | protein_coding | 23 | 28 | 24 | 29 | 1.198 |
| 11019 | NM_001278590,NM | **LIAS** | lipoic acid synthetase | protein_coding | 20 | 19 | 21 | 20 | 0.968 |
| 11020 | NM_001177701,NM | **IFT27** | intraflagellar transport 27 | protein_coding | 9 | 9 | 10 | 10 | 0.971 |
| 11021 | NM_001167606,NM | **RAB35** | RAB35, member RAS on | protein_coding | 67 | 66 | 68 | 67 | 0.987 |
| 11022 | NM_001083963,NM | **TDRKH** | tudor and KH domain co | protein_coding | 15 | 14 | 16 | 15 | 0.908 |
| 11023 | NM_001112704,NM | **VAX1** | ventral anterior homeobc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11024 | NM_001278318,NM | **LILRA1** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11025 | NM_001081450,NM | **LILRB3** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 0.862 |
| 11027 | NM_001130917,NM | **LILRA2** | leukocyte immunoglobul | protein_coding | 1 | 1 | 2 | 2 | 0.850 |
| 11030 | NM_001008710,NM | **RBPMS** | RNA binding protein, mR | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11031 | NM_006868,XM_01 | **RAB31** | RAB31, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11033 | NM_001284308,NM | **ADAP1** | ArfGAP with dual PH dor | protein_coding | 59 | 59 | 60 | 60 | 0.997 |
| 11034 | NM_001011546,NM | **DSTN** | destrin, actin depolymeri | protein_coding | 17 | 16 | 18 | 17 | 0.972 |
| 11035 | NM_006871 | **RIPK3** | receptor interacting serin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11036 | NM_001193487,NM | **GTF2A1L** | general transcription fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11037 | NM_001198595,NM | **STON1** | stonin 1 | protein_coding | 11 | 8 | 12 | 9 | 0.786 |
| 11039 | NR_024054,NR_02 | **GUSBP14** | GUSB pseudogene 14 | transcribed_pseu | 11 | 10 | 12 | 11 | 0.911 |
| 11040 | NM_006875 | **PIM2** | Pim-2 proto-oncogene, s | protein_coding | 42 | 61 | 43 | 62 | 1.437 |
| 11041 | NM_006876 | **B4GAT1** | beta-1,4-glucuronyltrans | protein_coding | 8 | 6 | 9 | 7 | 0.821 |
| 11042 | NR_034021 | **GUSBP15** | GUSB pseudogene 15 | transcribed_pseu | 6 | 6 | 7 | 7 | 0.987 |
| 11043 | NM_001382751,NM | **MID2** | midline 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11044 | NM_001171805,NM | **TENT4A** | terminal nucleotidyltrans | protein_coding | 24 | 21 | 25 | 22 | 0.871 |
| 11045 | NM_001281443,NM | **UPK1A** | uroplakin 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11046 | NM_001286990,NM | **SLC35D2** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.236 |
| 11047 | NM_001281437,NM | **ADRM1** | adhesion regulating mol | protein_coding | 363 | 376 | 364 | 377 | 1.036 |
| 11049 | gene-NUS1P3 | **NUS1P3** | NUS1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 11051 | NM_007006 | **NUDT21** | nudix hydrolase 21 | protein_coding | 146 | 129 | 147 | 130 | 0.887 |
| 11052 | NM_001300947,NM | **CPSF6** | cleavage and polyadenyl | protein_coding | 62 | 55 | 63 | 56 | 0.892 |
| 11054 | NM_007346 | **OGFR** | opioid growth factor rece | protein_coding | 154 | 164 | 155 | 165 | 1.064 |
| 11055 | NM_001159878,NM | **ZPBP** | zona pellucida binding p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11056 | NM_001291476,NM | **DDX52** | DExD-box helicase 52 | protein_coding | 35 | 30 | 36 | 31 | 0.855 |
| 11057 | NM_007011,NM_15 | **ABHD2** | abhydrolase domain con | protein_coding | 30 | 26 | 31 | 27 | 0.866 |
| 11059 | NM_007013,XM_00 | **WWP1** | WW domain containing E | protein_coding | 19 | 18 | 20 | 19 | 0.930 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 11060 | NM_001270453,NM | **WWP2** | WW domain containing E | protein_coding | 18 | 18 | 19 | 19 | 1.016 |
| 11061 | NM_001011705,NM | **CNMD** | chondromodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11062 | NM_001270419,NM | **DUS4L** | dihydrouridine synthase | protein_coding | 15 | 15 | 16 | 16 | 0.962 |
| 11063 | NM_001308165,NM | **SOX30** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 11064 | NM_001330762,NM | **CNTRL** | centriolin | protein_coding | 54 | 46 | 55 | 47 | 0.847 |
| 11065 | NM_001281741,NM | **UBE2C** | ubiquitin conjugating en | protein_coding | 630 | 607 | 631 | 608 | 0.964 |
| 11066 | NM_022717,NM_18 | **SNRNP35** | small nuclear ribonucleo | protein_coding | 15 | 18 | 16 | 19 | 1.177 |
| 11067 | NM_007021 | **DEPP1** | DEPP1 autophagy regul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11068 | NM_001291284,NM | **CYB561D2** | cytochrome b561 family | protein_coding | 27 | 36 | 28 | 37 | 1.297 |
| 11069 | NM_001100397,NM | **RAPGEF4** | Rap guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.095 |
| 11070 | NM_007024 | **TMEM115** | transmembrane protein 1 | protein_coding | 22 | 20 | 23 | 21 | 0.933 |
| 11072 | NM_007026,XM_00 | **DUSP14** | dual specificity phosphat | protein_coding | 24 | 24 | 25 | 25 | 0.998 |
| 11073 | NM_001363889,NM | **TOPBP1** | DNA topoisomerase II bir | protein_coding | 154 | 133 | 155 | 134 | 0.865 |
| 11074 | NM_007028,NR_13 | **TRIM31** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11075 | NM_001199214,NM | **STMN2** | stathmin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11076 | NM_007030,XM_00 | **TPPP** | tubulin polymerization pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11077 | NM_007031,XM_01 | **HSF2BP** | heat shock transcription | protein_coding | 1 | 1 | 2 | 2 | 1.216 |
| 11078 | NM_001039141,NM | **TRIOBP** | TRIO and F-actin binding | protein_coding | 12 | 13 | 13 | 14 | 1.112 |
| 11079 | NM_007033 | **RER1** | retention in endoplasmic | protein_coding | 103 | 110 | 104 | 111 | 1.066 |
| 11080 | NM_001317099,NM | **DNAJB4** | DnaJ heat shock protein | protein_coding | 7 | 6 | 8 | 7 | 0.948 |
| 11081 | NM_007035 | **KERA** | keratocan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11082 | NM_001135604,NM | **ESM1** | endothelial cell specific r | protein_coding | 1 | 2 | 2 | 3 | 1.324 |
| 11083 | NM_001193369,NM | **DIDO1** | death inducer-obliterator | protein_coding | 64 | 57 | 65 | 58 | 0.897 |
| 11085 | NM_021794 | **ADAM30** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11086 | NM_001130703,NM | **ADAM29** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11091 | NM_017588,NM_05 | **WDR5** | WD repeat domain 5 | protein_coding | 70 | 65 | 71 | 66 | 0.930 |
| 11092 | NM_001316897,NM | **SPACA9** | sperm acrosome associa | protein_coding | 1 | 1 | 2 | 2 | 1.190 |
| 11093 | NM_139025,NM_13 | **ADAMTS13** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 11094 | NM_001135775,NM | **CACFD1** | calcium channel flower d | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 11095 | NM_007037,XM_01 | **ADAMTS8** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11096 | NM_007038,XM_02 | **ADAMTS5** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11097 | NM_001370443,NM | **NUP42** | nucleoporin 42 | protein_coding | 27 | 28 | 28 | 29 | 1.041 |
| 11098 | NM_001293179,NM | **PRSS23** | serine protease 23 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11099 | NM_007039,XM_00 | **PTPN21** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11100 | NM_001301016,NM | **HNRNPUL1** | heterogeneous nuclear r | protein_coding | 367 | 363 | 368 | 364 | 0.991 |
| 11101 | NM_001001976,NM | **ATE1** | arginyltransferase 1 | protein_coding | 22 | 16 | 23 | 17 | 0.769 |
| 11102 | NM_001098783,NM | **RPP14** | ribonuclease P/MRP sub | protein_coding | 24 | 25 | 25 | 26 | 1.039 |
| 11103 | NM_007043 | **KRR1** | KRR1 small subunit proc | protein_coding | 23 | 21 | 24 | 22 | 0.921 |
| 11104 | NM_001204076,NM | **KATNA1** | katanin catalytic subunit | protein_coding | 30 | 27 | 31 | 28 | 0.898 |
| 11105 | NM_001098173,XM | **PRDM7** | PR/SET domain 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11107 | NM_001300823,NM | **PRDM5** | PR/SET domain 5 | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 11108 | NM_012406,XM_00 | **PRDM4** | PR/SET domain 4 | protein_coding | 26 | 26 | 27 | 27 | 0.980 |
| 11112 | NM_152740,XM_01 | **HIBADH** | 3-hydroxyisobutyrate deh | protein_coding | 9 | 10 | 10 | 11 | 1.133 |
| 11113 | NM_001206999,NM | **CIT** | citron rho-interacting ser | protein_coding | 15 | 13 | 16 | 14 | 0.843 |
| 11116 | NM_001278690,NM | **CEP43** | centrosomal protein 43 | protein_coding | 7 | 6 | 8 | 7 | 0.936 |
| 11117 | NM_007046 | **EMILIN1** | elastin microfibril interfac | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 11118 | NM_001197246,NM | **BTN3A2** | butyrophilin subfamily 3 | protein_coding | 46 | 40 | 47 | 41 | 0.869 |
| 11119 | NM_001145008,NM | **BTN3A1** | butyrophilin subfamily 3 | protein_coding | 22 | 18 | 23 | 19 | 0.844 |
| 11120 | NM_001197233,NM | **BTN2A1** | butyrophilin subfamily 2 | protein_coding | 35 | 32 | 36 | 33 | 0.907 |
| 11122 | NM_007050,NM_13 | **PTPRT** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11123 | NM_001251977,NM | **RCAN3** | RCAN family member 3 | protein_coding | 31 | 28 | 32 | 29 | 0.903 |
| 11124 | NM_007051,XM_01 | **FAF1** | Fas associated factor 1 | protein_coding | 43 | 33 | 44 | 34 | 0.771 |
| 11126 | NM_007053,NR_10 | **CD160** | CD160 molecule | protein_coding | 34 | 41 | 35 | 42 | 1.204 |
| 11127 | NM_001300791,NM | **KIF3A** | kinesin family member 3 | protein_coding | 15 | 13 | 16 | 14 | 0.850 |
| 11128 | NM_007055 | **POLR3A** | RNA polymerase III subu | protein_coding | 30 | 27 | 31 | 28 | 0.915 |
| 11129 | NM_001278439,NM | **CLASRP** | CLK4 associating serine/ | protein_coding | 28 | 28 | 29 | 29 | 0.974 |
| 11130 | NM_001005413,NM | **ZWINT** | ZW10 interacting kinetoc | protein_coding | 171 | 158 | 172 | 159 | 0.928 |
| 11131 | NM_007058,XM_00 | **CAPN11** | calpain 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11132 | NM_023083,NM_02 | **CAPN10** | calpain 10 | protein_coding | 30 | 26 | 31 | 27 | 0.870 |
| 11133 | NM_001291296,NM | **KPTN** | kaptin, actin binding prot | protein_coding | 9 | 11 | 10 | 12 | 1.180 |
| 11135 | NM_152243 | **CDC42EP1** | CDC42 effector protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 11136 | NM_001126335,NM | **SLC7A9** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11137 | NM_001317962,NM | **PWP1** | PWP1 homolog, endonu | protein_coding | 73 | 70 | 74 | 71 | 0.953 |
| 11138 | NM_001102426,NM | **TBC1D8** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 11140 | NM_007065,XM_01 | **CDC37** | cell division cycle 37, HS | protein_coding | 559 | 590 | 560 | 591 | 1.055 |
| 11141 | NM_014271,XM_01 | **IL1RAPL1** | interleukin 1 receptor acc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11142 | NM_001281444,NM | **PKIG** | cAMP-dependent protein | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 11143 | NM_001199155,NM | **KAT7** | lysine acetyltransferase 7 | protein_coding | 13 | 12 | 14 | 13 | 0.892 |
| 11144 | NM_001278208,NM | **DMC1** | DNA meiotic recombinas | protein_coding | 19 | 20 | 20 | 21 | 1.070 |
| 11145 | NM_001128203,NM | **PLAAT3** | phospholipase A and acy | protein_coding | 19 | 17 | 20 | 18 | 0.908 |
| 11146 | NM_001319683,NM | **GLMN** | glomulin, FKBP associat | protein_coding | 28 | 24 | 29 | 25 | 0.840 |
| 11147 | NR_027404,NR_16 | **HHLA3** | HERV-H LTR-associating | lncRNA | 7 | 10 | 8 | 11 | 1.287 |
| 11148 | NM_001282556,NM | **HHLA2** | HERV-H LTR-associating | protein_coding | 69 | 56 | 70 | 57 | 0.809 |
| 11149 | NM_001199563,NM | **BVES** | blood vessel epicardial s | protein_coding | 1 | 1 | 2 | 2 | 0.967 |
| 11151 | NM_001193333,NM | **CORO1A** | coronin 1A | protein_coding | 2,491 | 2,470 | 2,492 | 2,471 | 0.992 |
| 11152 | NM_001029896,NM | **WDR45** | WD repeat domain 45 | protein_coding | 9 | 10 | 10 | 11 | 1.078 |
| 11153 | NM_007076 | **FICD** | FIC domain protein aden | protein_coding | 4 | 4 | 5 | 5 | 1.055 |
| 11154 | NM_001128126,NM | **AP4S1** | adaptor related protein c | protein_coding | 9 | 9 | 10 | 10 | 1.000 |
| 11155 | NM_001080114,NM | **LDB3** | LIM domain binding 3 | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 11156 | NM_007079,NM_03 | **PTP4A3** | protein tyrosine phospha | protein_coding | 2 | 3 | 3 | 4 | 1.209 |
| 11157 | NM_007080,XM_01 | **LSM6** | LSM6 homolog, U6 smal | protein_coding | 65 | 88 | 66 | 89 | 1.337 |
| 11158 | NM_001003789,NM | **RABL2B** | RAB, member of RAS on | protein_coding | 12 | 13 | 13 | 14 | 1.061 |
| 11159 | NM_001306158,NM | **RABL2A** | RAB, member of RAS on | protein_coding | 5 | 5 | 6 | 6 | 1.031 |
| 11160 | NM_001003790,NM | **ERLIN2** | ER lipid raft associated 2 | protein_coding | 18 | 18 | 19 | 19 | 0.973 |
| 11161 | NM_007176 | **ERG28** | ergosterol biosynthesis 2 | protein_coding | 40 | 42 | 41 | 43 | 1.030 |
| 11162 | NM_007083,NM_19 | **NUDT6** | nudix hydrolase 6 | protein_coding | 14 | 12 | 15 | 13 | 0.886 |
| 11163 | NM_001301022,NM | **NUDT4** | nudix hydrolase 4 | protein_coding | 21 | 18 | 22 | 19 | 0.895 |
| 11164 | NM_001321647,NM | **NUDT5** | nudix hydrolase 5 | protein_coding | 30 | 26 | 31 | 27 | 0.879 |
| 11165 | NM_006703 | **NUDT3** | nudix hydrolase 3 | protein_coding | 29 | 28 | 30 | 29 | 0.957 |
| 11166 | NM_007084 | **SOX21** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11167 | NM_007085,XM_02 | **FSTL1** | follistatin like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 11168 | NM_001128217,NM | **PSIP1** | PC4 and SFRS1 interact | protein_coding | 85 | 72 | 86 | 73 | 0.852 |
| 11169 | NM_001008396,NM | **WDHD1** | WD repeat and HMG-bo | protein_coding | 37 | 31 | 38 | 32 | 0.837 |
| 11170 | NM_001076778,NM | **FAM107A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11171 | NM_007178,XM_00 | **STRAP** | serine/threonine kinase r | protein_coding | 136 | 110 | 137 | 111 | 0.814 |
| 11172 | NM_007179,XM_01 | **INSL6** | insulin like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11173 | NM_014272,XM_00 | **ADAMTS7** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11174 | NM_197941,NR_13 | **ADAMTS6** | ADAM metallopeptidase | protein_coding | 1 | 1 | 2 | 2 | 0.885 |
| 11176 | NM_001300905,NM | **BAZ2A** | bromodomain adjacent to | protein_coding | 44 | 35 | 45 | 36 | 0.785 |
| 11177 | NM_013448,NM_18 | **BAZ1A** | bromodomain adjacent to | protein_coding | 77 | 64 | 78 | 65 | 0.838 |
| 11178 | NM_001362884,NM | **LZTS1** | leucine zipper tumor sup | protein_coding | 26 | 20 | 27 | 21 | 0.768 |
| 11179 | NM_021994,XM_00 | **ZNF277** | zinc finger protein 277 | protein_coding | 13 | 12 | 14 | 13 | 0.986 |
| 11180 | NM_001320546,NM | **WDR6** | WD repeat domain 6 | protein_coding | 62 | 61 | 63 | 62 | 0.982 |
| 11181 | NM_001301065,NM | **TREH** | trehalase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11182 | NM_001145099,NM | **SLC2A6** | solute carrier family 2 me | protein_coding | 2 | 3 | 3 | 4 | 1.192 |
| 11183 | NM_006575,NM_19 | **MAP4K5** | mitogen-activated protein | protein_coding | 37 | 32 | 38 | 33 | 0.881 |
| 11184 | NM_001042600,NM | **MAP4K1** | mitogen-activated protein | protein_coding | 112 | 113 | 113 | 114 | 1.016 |
| 11185 | NM_001199219,NM | **INMT** | indolethylamine N-methy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11186 | NM_001206957,NM | **RASSF1** | Ras association domain f | protein_coding | 55 | 57 | 56 | 58 | 1.038 |
| 11187 | NM_001303029,NM | **PKP3** | plakophilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11188 | NM_001276293,NM | **NISCH** | nischarin | protein_coding | 29 | 28 | 30 | 29 | 0.974 |
| 11189 | NM_001172648,NM | **CELF3** | CUGBP Elav-like family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11190 | NM_001318219,NM | **CEP250** | centrosomal protein 250 | protein_coding | 42 | 41 | 43 | 42 | 0.988 |
| 11191 | NR_023917 | **PTENP1** | phosphatase and tensin | transcribed_pseu | 1 | 1 | 2 | 2 | 1.002 |
| 11193 | NM_007187,XM_00 | **WBP4** | WW domain binding pro | protein_coding | 24 | 21 | 25 | 22 | 0.880 |
| 11194 | NM_001282291,NM | **ABCB8** | ATP binding cassette sul | protein_coding | 8 | 8 | 9 | 9 | 0.995 |
| 11196 | NM_007190,NR_03 | **SEC23IP** | SEC23 interacting protei | protein_coding | 34 | 30 | 35 | 31 | 0.898 |
| 11197 | NM_007191 | **WIF1** | WNT inhibitory factor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11198 | NM_007192,XM_01 | **SUPT16H** | SPT16 homolog, facilitat | protein_coding | 246 | 229 | 247 | 230 | 0.930 |
| 11199 | NM_007193,XM_01 | **ANXA10** | annexin A10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11200 | NM_001005735,NM | **CHEK2** | checkpoint kinase 2 | protein_coding | 17 | 17 | 18 | 18 | 0.992 |
| 11201 | NM_001351610,NM | **POLI** | DNA polymerase iota | protein_coding | 2 | 2 | 3 | 3 | 1.011 |
| 11202 | NM_001281431,NM | **KLK8** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11209 | NR_027504 | **MST1P2** | macrophage stimulating | transcribed_pseu | 0 | 0 | 1 | 1 | 1.297 |
| 11211 | NM_007197 | **FZD10** | frizzled class receptor 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11212 | NM_001349346,NM | **PLPBP** | pyridoxal phosphate bind | protein_coding | 167 | 160 | 168 | 161 | 0.959 |

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|---|---|---|---|---|---|---|---|---|---|
| 11213 | NM_001142523,NM | **IRAK3** | interleukin 1 receptor ass | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 11214 | NM_001270546,NM | **AKAP13** | A-kinase anchoring prote | protein_coding | 38 | 33 | 39 | 34 | 0.878 |
| 11215 | NM_016248,XM_00 | **AKAP11** | A-kinase anchoring prote | protein_coding | 21 | 18 | 22 | 19 | 0.865 |
| 11216 | NM_001330152,NM | **AKAP10** | A-kinase anchoring prote | protein_coding | 12 | 12 | 13 | 13 | 1.014 |
| 11218 | NM_007204 | **DDX20** | DEAD-box helicase 20 | protein_coding | 24 | 22 | 25 | 23 | 0.943 |
| 11219 | NM_080701 | **TREX2** | three prime repair exonu | protein_coding | 2 | 2 | 3 | 3 | 1.029 |
| 11221 | NM_007207,NR_11 | **DUSP10** | dual specificity phosphat | protein_coding | 14 | 13 | 15 | 14 | 0.896 |
| 11222 | NM_007208 | **MRPL3** | mitochondrial ribosomal | protein_coding | 333 | 309 | 334 | 310 | 0.926 |
| 11223 | NM_001271733 | **MST1L** | macrophage stimulating | protein_coding | 0 | 0 | 1 | 1 | 1.084 |
| 11224 | NM_007209 | **RPL35** | ribosomal protein L35 | protein_coding | 2,648 | 2,707 | 2,649 | 2,708 | 1.022 |
| 11226 | NM_007210,XM_00 | **GALNT6** | polypeptide N-acetylgala | protein_coding | 8 | 4 | 9 | 5 | 0.580 |
| 11227 | NM_001329868,NM | **GALNT5** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11228 | NM_001164746,NM | **RASSF8** | Ras association domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11230 | NM_007213 | **PRAF2** | PRA1 domain family mer | protein_coding | 26 | 27 | 27 | 28 | 1.063 |
| 11231 | NM_007214,XM_01 | **SEC63** | SEC63 homolog, protein | protein_coding | 54 | 45 | 55 | 46 | 0.834 |
| 11232 | NM_007215 | **POLG2** | DNA polymerase gamma | protein_coding | 22 | 23 | 23 | 24 | 1.057 |
| 11234 | NM_007216,NM_18 | **HPS5** | HPS5 biogenesis of lyso | protein_coding | 27 | 25 | 28 | 26 | 0.917 |
| 11235 | NM_007217,NM_14 | **PDCD10** | programmed cell death 1 | protein_coding | 100 | 94 | 101 | 95 | 0.945 |
| 11236 | NM_007218 | **RNF139** | ring finger protein 139 | protein_coding | 17 | 16 | 18 | 17 | 0.979 |
| 11237 | NM_001134337,NM | **RNF24** | ring finger protein 24 | protein_coding | 4 | 3 | 5 | 4 | 0.844 |
| 11238 | NM_007220 | **CA5B** | carbonic anhydrase 5B | protein_coding | 1 | 1 | 2 | 2 | 0.990 |
| 11240 | NM_007365,XM_01 | **PADI2** | peptidyl arginine deimina | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 11243 | NM_001199653,NM | **PMF1** | polyamine modulated fac | protein_coding | 134 | 125 | 135 | 126 | 0.931 |
| 11244 | NM_001017926,NM | **ZHX1** | zinc fingers and homeob | protein_coding | 47 | 43 | 48 | 44 | 0.922 |
| 11245 | NM_001271854,NM | **GPR176** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11247 | NM_007224,XM_01 | **NXPH4** | neurexophilin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11248 | NM_007225 | **NXPH3** | neurexophilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11249 | NM_007226 | **NXPH2** | neurexophilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11250 | NM_007227 | **GPR45** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11251 | NM_004778 | **PTGDR2** | prostaglandin D2 recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11252 | NM_001184970,NM | **PACSIN2** | protein kinase C and cas | protein_coding | 121 | 110 | 122 | 111 | 0.916 |
| 11253 | NM_016219,NR_04 | **MAN1B1** | mannosidase alpha class | protein_coding | 25 | 25 | 26 | 26 | 0.996 |
| 11254 | NM_007231 | **SLC6A14** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11255 | NM_007232,XM_00 | **HRH3** | histamine receptor H3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11257 | NR_015381 | **TP53TG1** | TP53 target 1 | lncRNA | 15 | 11 | 16 | 12 | 0.741 |
| 11258 | NM_001281425,NM | **DCTN3** | dynactin subunit 3 | protein_coding | 91 | 99 | 92 | 100 | 1.080 |
| 11259 | NM_001042459,NM | **FILIP1L** | filamin A interacting prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11260 | NM_007235,XM_01 | **XPOT** | exportin for tRNA | protein_coding | 61 | 52 | 62 | 53 | 0.858 |
| 11261 | NM_007236,XM_01 | **CHP1** | calcineurin like EF-hand | protein_coding | 83 | 76 | 84 | 77 | 0.920 |
| 11262 | NM_001005176,NM | **SP140** | SP140 nuclear body prot | protein_coding | 64 | 54 | 65 | 55 | 0.847 |
| 11264 | NM_007238,NM_18 | **PXMP4** | peroxisomal membrane p | protein_coding | 3 | 3 | 4 | 4 | 1.072 |
| 11266 | NM_007240,XM_00 | **DUSP12** | dual specificity phosphat | protein_coding | 82 | 79 | 83 | 80 | 0.965 |
| 11267 | NM_001317192,NM | **SNF8** | SNF8 subunit of ESCRT | protein_coding | 132 | 143 | 133 | 144 | 1.086 |
| 11269 | NM_001014449,NM | **DDX19B** | DEAD-box helicase 19B | protein_coding | 52 | 49 | 53 | 50 | 0.946 |
| 11270 | NM_001270707,NM | **NRM** | nurim | protein_coding | 28 | 29 | 29 | 30 | 1.041 |
| 11272 | NM_001098538,NM | **PRR4** | proline rich 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11273 | NM_001308230,NM | **ATXN2L** | ataxin 2 like | protein_coding | 142 | 139 | 143 | 140 | 0.982 |
| 11274 | NM_017414,XM_00 | **USP18** | ubiquitin specific peptida | protein_coding | 36 | 32 | 37 | 33 | 0.888 |
| 11275 | NM_001161521,NM | **KLHL2** | kelch like family member | protein_coding | 27 | 27 | 28 | 28 | 0.975 |
| 11276 | NM_001163544,NM | **SYNRG** | synergin gamma | protein_coding | 34 | 29 | 35 | 30 | 0.852 |
| 11277 | NM_007248,NM_03 | **TREX1** | three prime repair exonu | protein_coding | 8 | 9 | 9 | 10 | 1.152 |
| 11278 | NM_007249,XM_00 | **KLF12** | Kruppel like factor 12 | protein_coding | 7 | 6 | 8 | 7 | 0.927 |
| 11279 | NM_001159296,NM | **KLF8** | Kruppel like factor 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11280 | NM_001349253,NM | **SCN11A** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11281 | NM_001166018,NM | **POU6F2** | POU class 6 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11282 | NM_014275,NM_05 | **MGAT4B** | alpha-1,3-mannosyl-glyc | protein_coding | 34 | 38 | 35 | 39 | 1.113 |
| 11283 | NM_007253,XM_02 | **CYP4F8** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11284 | NM_007254 | **PNKP** | polynucleotide kinase 3'- | protein_coding | 22 | 22 | 23 | 23 | 0.997 |
| 11285 | NM_007255,XM_00 | **B4GALT7** | beta-1,4-galactosyltransf | protein_coding | 21 | 24 | 22 | 25 | 1.147 |
| 11309 | NM_001145211,NM | **SLCO2B1** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 0.946 |
| 11311 | NM_001279353,NM | **VPS45** | vacuolar protein sorting | protein_coding | 41 | 42 | 42 | 43 | 1.023 |
| 11313 | NM_007260,XM_00 | **LYPLA2** | lysophospholipase 2 | protein_coding | 107 | 128 | 108 | 129 | 1.194 |
| 11314 | NM_001256841,NM | **CD300A** | CD300a molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11315 | NM_001123377,NM | **PARK7** | Parkinsonism associated | protein_coding | 491 | 506 | 492 | 507 | 1.032 |
| 11316 | NM_001330469,NM | **COPE** | COPI coat complex subu | protein_coding | 274 | 290 | 275 | 291 | 1.055 |
| 11317 | NM_001281448,NM | **RBPJL** | recombination signal bin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11318 | NM_007264,XM_01 | **GPR182** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11319 | NM_001135752,NM | **ECD** | ecdysoneless cell cycle r | protein_coding | 46 | 43 | 47 | 44 | 0.934 |
| 11320 | NM_001160154,NM | **MGAT4A** | alpha-1,3-mannosyl-glyc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11321 | NM_001145047,NM | **GPN1** | GPN-loop GTPase 1 | protein_coding | 72 | 70 | 73 | 71 | 0.972 |
| 11322 | NM_001127198,NM | **TMC6** | transmembrane channel | protein_coding | 32 | 33 | 33 | 34 | 1.032 |
| 11325 | NM_007372,NM_20 | **DDX42** | DEAD-box helicase 42 | protein_coding | 135 | 125 | 136 | 126 | 0.923 |
| 11326 | NM_001100431,NM | **VSIG4** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11328 | NM_001284341,NM | **FKBP9** | FKBP prolyl isomerase 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11329 | NM_001305102,NM | **STK38** | serine/threonine kinase 3 | protein_coding | 57 | 60 | 58 | 61 | 1.049 |
| 11330 | NM_007272,XM_01 | **CTRC** | chymotrypsin C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11331 | NM_001144831,NM | **PHB2** | prohibitin 2 | protein_coding | 355 | 368 | 356 | 369 | 1.036 |
| 11332 | NM_007274,NM_18 | **ACOT7** | acyl-CoA thioesterase 7 | protein_coding | 178 | 200 | 179 | 201 | 1.122 |
| 11333 | NM_014891 | **PDAP1** | PDGFA associated prote | protein_coding | 174 | 179 | 175 | 180 | 1.032 |
| 11334 | NM_007275 | **TUSC2** | tumor suppressor 2, mitc | protein_coding | 70 | 77 | 71 | 78 | 1.095 |
| 11335 | NM_007276,NM_01 | **CBX3** | chromobox 3 | protein_coding | 311 | 284 | 312 | 285 | 0.914 |
| 11336 | NM_007277 | **EXOC3** | exocyst complex compor | protein_coding | 39 | 44 | 40 | 45 | 1.124 |
| 11337 | NM_007278 | **GABARAP** | GABA type A receptor-as | protein_coding | 55 | 53 | 56 | 54 | 0.970 |
| 11338 | NM_001012478,NM | **U2AF2** | U2 small nuclear RNA au | protein_coding | 375 | 410 | 376 | 411 | 1.093 |
| 11339 | NM_001317860,NM | **OIP5** | Opa interacting protein 5 | protein_coding | 64 | 73 | 65 | 74 | 1.140 |
| 11340 | NM_181503,XM_00 | **EXOSC8** | exosome component 8 | protein_coding | 126 | 119 | 127 | 120 | 0.944 |
| 11341 | NM_001329597,NM | **SCRG1** | stimulator of chondrogen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11342 | NM_001378285,NM | **RNF13** | ring finger protein 13 | protein_coding | 34 | 26 | 35 | 27 | 0.779 |
| 11343 | NM_001003794,NM | **MGLL** | monoglyceride lipase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 11344 | NM_007284 | **TWF2** | twinfilin actin binding pro | protein_coding | 85 | 91 | 86 | 92 | 1.075 |
| 11345 | NM_007285 | **GABARAPL2** | GABA type A receptor as | protein_coding | 87 | 85 | 88 | 86 | 0.977 |
| 11346 | NM_001109974,NM | **SYNPO** | synaptopodin | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 22794 | NM_007359,XM_00 | **CASC3** | CASC3 exon junction co | protein_coding | 97 | 98 | 98 | 99 | 1.010 |
| 22795 | NM_007361,XM_00 | **NID2** | nidogen 2 | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 22796 | NM_001145036,NM | **COG2** | component of oligomeric | protein_coding | 26 | 26 | 27 | 27 | 0.974 |
| 22797 | NM_001018058,NM | **TFEC** | transcription factor EC | protein_coding | 36 | 26 | 37 | 27 | 0.721 |
| 22798 | NM_001318046,NM | **LAMB4** | laminin subunit beta 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22800 | NM_001102669,NM | **RRAS2** | RAS related 2 | protein_coding | 125 | 121 | 126 | 122 | 0.969 |
| 22801 | NM_001004439,XM | **ITGA11** | integrin subunit alpha 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22802 | NM_012128,NR_02 | **CLCA4** | chloride channel accesso | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22803 | NM_001317960,NM | **XRN2** | 5'-3' exoribonuclease 2 | protein_coding | 120 | 107 | 121 | 108 | 0.897 |
| 22806 | NM_001257408,NM | **IKZF3** | IKAROS family zinc finge | protein_coding | 130 | 110 | 131 | 111 | 0.848 |
| 22807 | NM_001079526,NM | **IKZF2** | IKAROS family zinc finge | protein_coding | 68 | 54 | 69 | 55 | 0.803 |
| 22808 | NM_001085049,NM | **MRAS** | muscle RAS oncogene h | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22809 | NM_001193646,NM | **ATF5** | activating transcription fa | protein_coding | 33 | 40 | 34 | 41 | 1.186 |
| 22813 | gene-TDGF1P6 | **TDGF1P6** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22814 | gene-TDGF1P5 | **TDGF1P5** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22815 | gene-TDGF1P4 | **TDGF1P4** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22816 | gene-TDGF1P2 | **TDGF1P2** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22818 | NM_001271734,NM | **COPZ1** | COPI coat complex subu | protein_coding | 110 | 107 | 111 | 108 | 0.977 |
| 22820 | NM_016128,XM_01 | **COPG1** | COPI coat complex subu | protein_coding | 93 | 92 | 94 | 93 | 0.984 |
| 22821 | NM_001320821,NM | **RASA3** | RAS p21 protein activato | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 22822 | NM_007350 | **PHLDA1** | pleckstrin homology like | protein_coding | 58 | 62 | 59 | 63 | 1.063 |
| 22823 | NM_001164391,NM | **MTF2** | metal response element | protein_coding | 71 | 56 | 72 | 57 | 0.789 |
| 22824 | NM_001317381,NM | **HSPA4L** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 22826 | NM_014280,NR_15 | **DNAJC8** | DnaJ heat shock protein | protein_coding | 270 | 269 | 271 | 270 | 0.996 |
| 22827 | NM_001136033,NM | **PUF60** | poly(U) binding splicing | protein_coding | 106 | 120 | 107 | 121 | 1.132 |
| 22828 | NM_001286188,NM | **SCAF8** | SR-related CTD associat | protein_coding | 39 | 35 | 40 | 36 | 0.903 |
| 22829 | NM_001164238,NM | **NLGN4Y** | neuroligin 4 Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 22832 | NM_001286206,NM | **CEP162** | centrosomal protein 162 | protein_coding | 3 | 3 | 4 | 4 | 0.984 |
| 22834 | NM_001145365,NM | **ZNF652** | zinc finger protein 652 | protein_coding | 8 | 6 | 9 | 7 | 0.864 |
| 22835 | NM_001320666,NM | **ZFP30** | ZFP30 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22836 | NM_014899,XM_01 | **RHOBTB3** | Rho related BTB domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22837 | NM_001278458,NM | **COBLL1** | cordon-bleu WH2 repeat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22838 | NM_014901,XM_00 | **RNF44** | ring finger protein 44 | protein_coding | 39 | 40 | 40 | 41 | 1.010 |
| 22839 | NM_001042486,NM | **DLGAP4** | DLG associated protein | protein_coding | 21 | 19 | 22 | 20 | 0.900 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 22841 | NM_001330167,NM | **RAB11FIP2** | RAB11 family interacting | protein_coding | 8 | 6 | 9 | 7 | 0.792 |
| 22843 | NM_014906,NR_04 | **PPM1E** | protein phosphatase, Mg | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22844 | NM_001371223,NM | **FRMPD1** | FERM and PDZ domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22845 | NM_014908 | **DOLK** | dolichol kinase | protein_coding | 10 | 12 | 11 | 13 | 1.229 |
| 22846 | NM_014909,XM_01 | **VASH1** | vasohibin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.090 |
| 22847 | NM_001136156,NM | **ZNF507** | zinc finger protein 507 | protein_coding | 19 | 15 | 20 | 16 | 0.803 |
| 22848 | NM_001371575,NM | **AAK1** | AP2 associated kinase 1 | protein_coding | 16 | 13 | 17 | 14 | 0.789 |
| 22849 | NM_001178137,NM | **CPEB3** | cytoplasmic polyadenyla | protein_coding | 1 | 1 | 2 | 2 | 1.001 |
| 22850 | NM_014913,XM_00 | **ADNP2** | ADNP homeobox 2 | protein_coding | 32 | 27 | 33 | 28 | 0.861 |
| 22852 | NM_001256053,NM | **ANKRD26** | ankyrin repeat domain 2 | protein_coding | 2 | 2 | 3 | 3 | 1.122 |
| 22853 | NM_014916,XM_01 | **LMTK2** | lemur tyrosine kinase 2 | protein_coding | 16 | 15 | 17 | 16 | 0.932 |
| 22854 | NM_001113226,NM | **NTNG1** | netrin G1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22856 | NM_014918,XM_00 | **CHSY1** | chondroitin sulfate synth | protein_coding | 140 | 122 | 141 | 123 | 0.871 |
| 22858 | NM_001375397,NM | **CILK1** | ciliogenesis associated k | protein_coding | 2 | 1 | 3 | 2 | 0.836 |
| 22859 | NM_001008701,NM | **ADGRL1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 22861 | NM_001033053,NM | **NLRP1** | NLR family pyrin domain | protein_coding | 3 | 2 | 4 | 3 | 0.873 |
| 22862 | NM_001079673,NM | **FNDC3A** | fibronectin type III domai | protein_coding | 75 | 65 | 76 | 66 | 0.873 |
| 22863 | NM_014924,XM_01 | **ATG14** | autophagy related 14 | protein_coding | 4 | 3 | 5 | 4 | 0.832 |
| 22864 | NM_001330121,NM | **R3HDM2** | R3H domain containing 2 | protein_coding | 12 | 13 | 13 | 14 | 1.051 |
| 22865 | NM_001318810,NM | **SLITRK3** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22866 | NM_001168647,NM | **CNKSR2** | connector enhancer of ki | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22868 | NM_001136193,NM | **FASTKD2** | FAST kinase domains 2 | protein_coding | 21 | 21 | 22 | 22 | 1.002 |
| 22869 | NM_001314059,NM | **ZNF510** | zinc finger protein 510 | protein_coding | 8 | 6 | 9 | 7 | 0.810 |
| 22870 | NM_014931 | **PPP6R1** | protein phosphatase 6 re | protein_coding | 323 | 320 | 324 | 321 | 0.992 |
| 22871 | NM_001365923,NM | **NLGN1** | neuroligin 1 | protein_coding | 1 | 1 | 2 | 2 | 1.089 |
| 22872 | NM_001077206,NM | **SEC31A** | SEC31 homolog A, COP | protein_coding | 42 | 42 | 43 | 43 | 1.000 |
| 22873 | NM_014934,NM_19 | **DZIP1** | DAZ interacting zinc fing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22874 | NM_014935,XM_00 | **PLEKHA6** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 22875 | NM_014936 | **ENPP4** | ectonucleotide pyrophos | protein_coding | 32 | 25 | 33 | 26 | 0.801 |
| 22876 | NM_001243194,NM | **INPP5F** | inositol polyphosphate-5 | protein_coding | 5 | 4 | 6 | 5 | 0.786 |
| 22877 | NM_014938,XM_00 | **MLXIP** | MLX interacting protein | protein_coding | 10 | 10 | 11 | 11 | 0.963 |
| 22878 | NM_014939,XM_00 | **TRAPPC8** | trafficking protein particle | protein_coding | 28 | 24 | 29 | 25 | 0.887 |
| 22879 | NM_001286639,NM | **MON1B** | MON1 homolog B, secre | protein_coding | 29 | 29 | 30 | 30 | 1.010 |
| 22880 | NM_001303256,NM | **MORC2** | MORC family CW-type z | protein_coding | 12 | 13 | 13 | 14 | 1.041 |
| 22881 | NM_001242809,NM | **ANKRD6** | ankyrin repeat domain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 22882 | NM_001362797,NM | **ZHX2** | zinc fingers and homeob | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22883 | NM_001009566,NM | **CLSTN1** | calsyntenin 1 | protein_coding | 83 | 77 | 84 | 78 | 0.931 |
| 22884 | NM_014023 | **WDR37** | WD repeat domain 37 | protein_coding | 8 | 9 | 9 | 10 | 1.082 |
| 22885 | NM_001301015,NM | **ABLIM3** | actin binding LIM protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22887 | NM_001198850,NM | **FOXJ3** | forkhead box J3 | protein_coding | 57 | 51 | 58 | 52 | 0.897 |
| 22888 | NM_001267584,NM | **UBOX5** | U-box domain containing | protein_coding | 6 | 7 | 7 | 8 | 1.097 |
| 22889 | NM_014949 | **KHDC4** | KH domain containing 4, | protein_coding | 53 | 45 | 54 | 46 | 0.846 |
| 22890 | NM_001123329,NM | **ZBTB1** | zinc finger and BTB dom | protein_coding | 21 | 21 | 22 | 22 | 1.006 |
| 22891 | NM_014951,NM_19 | **ZNF365** | zinc finger protein 365 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22893 | NM_001301132,NM | **BAHD1** | bromo adjacent homolog | protein_coding | 49 | 50 | 50 | 51 | 1.019 |
| 22894 | NM_001128226,NM | **DIS3** | DIS3 homolog, exosome | protein_coding | 30 | 27 | 31 | 28 | 0.901 |
| 22895 | NM_001143854,NM | **RPH3A** | rabphilin 3A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22897 | NM_001271933,NM | **CEP164** | centrosomal protein 164 | protein_coding | 21 | 19 | 22 | 20 | 0.902 |
| 22898 | NM_001352890,NM | **DENND3** | DENN domain containing | protein_coding | 29 | 23 | 30 | 24 | 0.782 |
| 22899 | NM_025014,NM_17 | **ARHGEF15** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22900 | NM_001184900,NM | **CARD8** | caspase recruitment dom | protein_coding | 47 | 41 | 48 | 42 | 0.879 |
| 22901 | NM_001267727,NM | **ARSG** | arylsulfatase G | protein_coding | 7 | 8 | 8 | 9 | 1.104 |
| 22902 | NM_001037442,NM | **RUFY3** | RUN and FYVE domain | protein_coding | 2 | 2 | 3 | 3 | 1.086 |
| 22903 | NM_001282550,NM | **BTBD3** | BTB domain containing 3 | protein_coding | 0 | 0 | 1 | 1 | 0.881 |
| 22904 | NM_001100122,NM | **SBNO2** | strawberry notch homolo | protein_coding | 36 | 37 | 37 | 38 | 1.034 |
| 22905 | NM_001102664,NM | **EPN2** | epsin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 22906 | NM_001042646,NM | **TRAK1** | trafficking kinesin protein | protein_coding | 9 | 7 | 10 | 8 | 0.805 |
| 22907 | NM_001330990,NM | **DHX30** | DExH-box helicase 30 | protein_coding | 77 | 80 | 78 | 81 | 1.033 |
| 22908 | NM_001319071,NM | **SACM1L** | SAC1 like phosphatidylin | protein_coding | 84 | 75 | 85 | 76 | 0.899 |
| 22909 | NM_001146094,NM | **FAN1** | FANCD2 and FANCI ass | protein_coding | 1 | 1 | 2 | 2 | 0.995 |
| 22911 | NM_001142550,NM | **WDR47** | WD repeat domain 47 | protein_coding | 12 | 12 | 13 | 13 | 0.974 |
| 22913 | NM_007367,NM_01 | **RALY** | RALY heterogeneous nu | protein_coding | 247 | 251 | 248 | 252 | 1.015 |
| 22914 | NM_007360 | **KLRK1** | killer cell lectin like recep | protein_coding | 17 | 16 | 18 | 17 | 0.907 |
| 22915 | NM_001371403,NM | **MMRN1** | multimerin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 22916 | NM_001042540,NM | **NCBP2** | nuclear cap binding prot | protein_coding | 150 | 137 | 151 | 138 | 0.910 |
| 22917 | NM_207341,XM_01 | **ZP1** | zona pellucida glycoprot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22918 | NM_012072,XR_00 | **CD93** | CD93 molecule | protein_coding | 24 | 21 | 25 | 22 | 0.882 |
| 22919 | NM_012325,XM_01 | **MAPRE1** | microtubule associated p | protein_coding | 454 | 418 | 455 | 419 | 0.922 |
| 22920 | NM_001204514,NM | **KIFAP3** | kinesin associated protei | protein_coding | 39 | 36 | 40 | 37 | 0.927 |
| 22921 | NM_012228,XM_01 | **MSRB2** | methionine sulfoxide red | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22924 | NM_001303050,NM | **MAPRE3** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22925 | NM_001007267,NM | **PLA2R1** | phospholipase A2 recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22926 | NM_007348,XM_00 | **ATF6** | activating transcription fa | protein_coding | 28 | 26 | 29 | 27 | 0.931 |
| 22927 | NM_014282,XM_00 | **HABP4** | hyaluronan binding prote | protein_coding | 7 | 8 | 8 | 9 | 1.030 |
| 22928 | NM_012248 | **SEPHS2** | selenophosphate synthe | protein_coding | 178 | 194 | 179 | 195 | 1.089 |
| 22929 | NM_001195602,NM | **SEPHS1** | selenophosphate synthe | protein_coding | 70 | 66 | 71 | 67 | 0.934 |
| 22930 | NM_001172435,NM | **RAB3GAP1** | RAB3 GTPase activating | protein_coding | 28 | 21 | 29 | 22 | 0.781 |
| 22931 | NM_001256410,NM | **RAB18** | RAB18, member RAS on | protein_coding | 8 | 7 | 9 | 8 | 0.945 |
| 22932 | NM_012230,NM_15 | **POMZP3** | POM121 and ZP3 fusion | protein_coding | 17 | 18 | 18 | 19 | 1.037 |
| 22933 | NM_001193286,NM | **SIRT2** | sirtuin 2 | protein_coding | 88 | 90 | 89 | 91 | 1.021 |
| 22934 | NM_144563 | **RPIA** | ribose 5-phosphate isom | protein_coding | 150 | 138 | 151 | 139 | 0.919 |
| 22936 | NM_012081,XM_00 | **ELL2** | elongation factor for RNA | protein_coding | 97 | 94 | 98 | 95 | 0.972 |
| 22937 | NM_001320044,NM | **SCAP** | SREBF chaperone | protein_coding | 35 | 35 | 36 | 36 | 0.999 |
| 22938 | NM_001318844,NM | **SNW1** | SNW domain containing | protein_coding | 109 | 103 | 110 | 104 | 0.938 |
| 22941 | NM_001379226,NM | **SHANK2** | SH3 and multiple ankyrin | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 22943 | NM_012242 | **DKK1** | dickkopf WNT signaling | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22944 | NM_012311,NR_04 | **KIN** | Kin17 DNA and RNA bin | protein_coding | 3 | 4 | 4 | 5 | 1.342 |
| 22945 | gene-GPAA1P1 | **GPAA1P1** | glycosylphosphatidylinos | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22947 | gene-DUX4L1 | **DUX4L1** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 22948 | NM_001306153,NM | **CCT5** | chaperonin containing T( | protein_coding | 588 | 572 | 589 | 573 | 0.972 |
| 22949 | NM_001146108,NM | **PTGR1** | prostaglandin reductase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22950 | NM_018158 | **SLC4A1AP** | solute carrier family 4 me | protein_coding | 33 | 33 | 34 | 34 | 0.991 |
| 22952 | NR_040249 | **CYP2G1P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 22953 | NM_001282164,NM | **P2RX2** | purinergic receptor P2X | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22954 | NM_001099679,NM | **TRIM32** | tripartite motif containing | protein_coding | 10 | 9 | 11 | 10 | 0.934 |
| 22955 | NM_001031694,NM | **SCMH1** | Scm polycomb group pro | protein_coding | 8 | 7 | 9 | 8 | 0.975 |
| 22969 | gene-RPL41P3 | **RPL41P3** | ribosomal protein L41 ps | pseudogene | 106 | 120 | 107 | 121 | 1.129 |
| 22970 | gene-RPL41P2 | **RPL41P2** | ribosomal protein L41 ps | pseudogene | 3 | 1 | 4 | 2 | 0.668 |
| 22971 | gene-RPL41P1 | **RPL41P1** | ribosomal protein L41 ps | pseudogene | 180 | 214 | 181 | 215 | 1.189 |
| 22973 | NR_004405 | **LAMB2P1** | laminin subunit beta 2 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.124 |
| 22974 | NM_012112,XM_01 | **TPX2** | TPX2 microtubule nuclea | protein_coding | 311 | 291 | 312 | 292 | 0.935 |
| 22976 | NM_007349,XM_00 | **PAXIP1** | PAX interacting protein 1 | protein_coding | 27 | 25 | 28 | 26 | 0.925 |
| 22977 | NM_012067,XM_01 | **AKR7A3** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.098 |
| 22978 | NM_001134373,NM | **NT5C2** | 5'-nucleotidase, cytosolic | protein_coding | 54 | 47 | 55 | 48 | 0.880 |
| 22979 | NM_001319099,NM | **EFR3B** | EFR3 homolog B | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 22980 | NM_014972,XM_00 | **TCF25** | transcription factor 25 | protein_coding | 67 | 77 | 68 | 78 | 1.142 |
| 22981 | NM_001318226,NM | **NINL** | ninein like | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 22982 | NM_014974,XM_00 | **DIP2C** | disco interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22983 | NM_014975 | **MAST1** | microtubule associated s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22984 | NM_014976,XM_00 | **PDCD11** | programmed cell death 1 | protein_coding | 81 | 75 | 82 | 76 | 0.926 |
| 22985 | NM_001164814,NM | **ACIN1** | apoptotic chromatin cond | protein_coding | 141 | 136 | 142 | 137 | 0.960 |
| 22986 | NM_014978,XM_01 | **SORCS3** | sortilin related VPS10 do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22987 | NM_001297716,NM | **SV2C** | synaptic vesicle glycopro | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 22989 | NM_014981,XM_01 | **MYH15** | myosin heavy chain 15 | protein_coding | 0 | 0 | 1 | 1 | 0.867 |
| 22990 | NM_001308160,NM | **PCNX1** | pecanex 1 | protein_coding | 25 | 20 | 26 | 21 | 0.795 |
| 22992 | NM_001256405,NM | **KDM2A** | lysine demethylase 2A | protein_coding | 68 | 68 | 69 | 69 | 0.998 |
| 22993 | NM_001366501,NM | **HMGXB3** | HMG-box containing 3 | protein_coding | 59 | 53 | 60 | 54 | 0.898 |
| 22994 | NM_001009811,NM | **CEP131** | centrosomal protein 131 | protein_coding | 7 | 8 | 8 | 9 | 1.063 |
| 22995 | NM_001194998,NM | **CEP152** | centrosomal protein 152 | protein_coding | 27 | 22 | 28 | 23 | 0.821 |
| 22996 | NM_001080494,NM | **TTC39A** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 22997 | NM_001277285 | **IGSF9B** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22998 | NM_001112717,NM | **LIMCH1** | LIM and calponin homol | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 22999 | NM_001168407,NM | **RIMS1** | regulating synaptic mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23001 | NM_014991,XM_00 | **WDFY3** | WD repeat and FYVE do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23002 | NM_001270520,NM | **DAAM1** | dishevelled associated a | protein_coding | 6 | 5 | 7 | 6 | 0.866 |
| 23005 | NM_001128608,NM | **MAPKBP1** | mitogen-activated protein | protein_coding | 16 | 14 | 17 | 15 | 0.889 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23007 | NM_001130960,NM | **PLCH1** | phospholipase C eta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23008 | NM_014997,XM_00 | **KLHDC10** | kelch domain containing | protein_coding | 13 | 12 | 14 | 13 | 0.938 |
| 23011 | NM_014999 | **RAB21** | RAB21, member RAS on | protein_coding | 10 | 9 | 11 | 10 | 0.966 |
| 23012 | NM_015000,XM_00 | **STK38L** | serine/threonine kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 0.919 |
| 23013 | NM_015001 | **SPEN** | spen family transcription | protein_coding | 36 | 30 | 37 | 31 | 0.853 |
| 23014 | NM_015002,NM_03 | **FBXO21** | F-box protein 21 | protein_coding | 19 | 17 | 20 | 18 | 0.904 |
| 23015 | NM_001368071,NM | **GOLGA8A** | golgin A8 family member | protein_coding | 25 | 17 | 26 | 18 | 0.696 |
| 23016 | NM_015004,NR_02 | **EXOSC7** | exosome component 7 | protein_coding | 113 | 125 | 114 | 126 | 1.107 |
| 23017 | NM_012306,XM_00 | **FAIM2** | Fas apoptotic inhibitory r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23019 | NM_001265612,NM | **CNOT1** | CCR4-NOT transcription | protein_coding | 105 | 92 | 106 | 93 | 0.878 |
| 23020 | NM_014014 | **SNRNP200** | small nuclear ribonucleo | protein_coding | 186 | 172 | 187 | 173 | 0.925 |
| 23022 | NM_001166108,NM | **PALLD** | palladin, cytoskeletal ass | protein_coding | 1 | 1 | 2 | 2 | 0.998 |
| 23023 | NM_001017395,NM | **TMCC1** | transmembrane and coil | protein_coding | 5 | 5 | 6 | 6 | 0.961 |
| 23024 | NM_001303139,NM | **PDZRN3** | PDZ domain containing r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23025 | NM_001080421,XM | **UNC13A** | unc-13 homolog A | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 23026 | NM_001198950,NM | **MYO16** | myosin XVI | protein_coding | 1 | 0 | 2 | 1 | 0.935 |
| 23028 | NM_001009999,NM | **KDM1A** | lysine demethylase 1A | protein_coding | 107 | 103 | 108 | 104 | 0.959 |
| 23029 | NM_001346738,NM | **RBM34** | RNA binding motif protei | protein_coding | 74 | 66 | 75 | 67 | 0.890 |
| 23030 | NM_001370093,NM | **KDM4B** | lysine demethylase 4B | protein_coding | 17 | 17 | 18 | 18 | 1.020 |
| 23031 | NM_015016,XM_00 | **MAST3** | microtubule associated s | protein_coding | 13 | 13 | 14 | 14 | 0.955 |
| 23032 | NM_001377430,NM | **USP33** | ubiquitin specific peptida | protein_coding | 34 | 28 | 35 | 29 | 0.836 |
| 23033 | NM_001199942,NM | **DOP1A** | DOP1 leucine zipper like | protein_coding | 12 | 10 | 13 | 11 | 0.829 |
| 23034 | NM_001161576,NM | **SAMD4A** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 23035 | NM_001289003,NM | **PHLPP2** | PH domain and leucine r | protein_coding | 5 | 4 | 6 | 5 | 0.889 |
| 23036 | NM_001351444,NM | **ZNF292** | zinc finger protein 292 | protein_coding | 12 | 10 | 13 | 11 | 0.844 |
| 23037 | NM_178140,XM_00 | **PDZD2** | PDZ domain containing 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23038 | NM_001276252,NM | **WDTC1** | WD and tetratricopeptide | protein_coding | 10 | 10 | 11 | 11 | 0.970 |
| 23039 | NM_001100161,NM | **XPO7** | exportin 7 | protein_coding | 47 | 40 | 48 | 41 | 0.857 |
| 23040 | NM_001303052,NM | **MYT1L** | myelin transcription factc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23041 | NM_001278469,NM | **MON2** | MON2 homolog, regulato | protein_coding | 8 | 7 | 9 | 8 | 0.884 |
| 23042 | NM_001285444,NM | **PDXDC1** | pyridoxal dependent dec | protein_coding | 110 | 92 | 111 | 93 | 0.838 |
| 23043 | NM_001161560,NM | **TNIK** | TRAF2 and NCK interact | protein_coding | 25 | 23 | 26 | 24 | 0.903 |
| 23046 | NM_001252100,NM | **KIF21B** | kinesin family member 2 | protein_coding | 112 | 101 | 113 | 102 | 0.900 |
| 23047 | NM_015032,XM_00 | **PDS5B** | PDS5 cohesin associate | protein_coding | 34 | 28 | 35 | 29 | 0.832 |
| 23048 | NM_001363755,NM | **FNBP1** | formin binding protein 1 | protein_coding | 73 | 65 | 74 | 66 | 0.886 |
| 23049 | NM_015092,XM_00 | **SMG1** | SMG1 nonsense mediate | protein_coding | 74 | 57 | 75 | 58 | 0.779 |
| 23051 | NM_015035,XM_00 | **ZHX3** | zinc fingers and homeob | protein_coding | 6 | 5 | 7 | 6 | 0.938 |
| 23052 | NM_015036 | **ENDOD1** | endonuclease domain co | protein_coding | 4 | 3 | 5 | 4 | 0.836 |
| 23053 | NM_001242487,NM | **ZSWIM8** | zinc finger SWIM-type co | protein_coding | 7 | 6 | 8 | 7 | 0.921 |
| 23054 | NM_001242539,NM | **NCOA6** | nuclear receptor coactiva | protein_coding | 38 | 32 | 39 | 33 | 0.851 |
| 23057 | NM_015039,NM_17 | **NMNAT2** | nicotinamide nucleotide a | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 23059 | NM_001330454,NM | **CLUAP1** | clusterin associated prot | protein_coding | 7 | 7 | 8 | 8 | 1.089 |
| 23060 | NM_015042,XM_01 | **ZNF609** | zinc finger protein 609 | protein_coding | 35 | 30 | 36 | 31 | 0.859 |
| 23061 | NM_015043,NM_19 | **TBC1D9B** | TBC1 domain family mer | protein_coding | 23 | 25 | 24 | 26 | 1.090 |
| 23062 | NM_015044,XM_01 | **GGA2** | golgi associated, gamma | protein_coding | 56 | 50 | 57 | 51 | 0.887 |
| 23063 | NM_001318328,NM | **WAPL** | WAPL cohesin release fa | protein_coding | 49 | 43 | 50 | 44 | 0.878 |
| 23064 | NM_001351527,NM | **SETX** | senataxin | protein_coding | 30 | 24 | 31 | 25 | 0.813 |
| 23065 | NM_001271427,NM | **EMC1** | ER membrane protein co | protein_coding | 46 | 44 | 47 | 45 | 0.955 |
| 23066 | NM_001162499,NM | **CAND2** | cullin associated and ne | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23067 | NM_001353345,XM | **SETD1B** | SET domain containing 1 | protein_coding | 17 | 16 | 18 | 17 | 0.950 |
| 23070 | NM_015050,XM_00 | **CMTR1** | cap methyltransferase 1 | protein_coding | 64 | 60 | 65 | 61 | 0.935 |
| 23071 | NM_015051 | **ERP44** | endoplasmic reticulum p | protein_coding | 28 | 25 | 29 | 26 | 0.892 |
| 23072 | NM_001287059,NM | **HECW1** | HECT, C2 and WW dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23074 | NM_001006947,NM | **UHRF1BP1L** | UHRF1 binding protein 1 | protein_coding | 22 | 18 | 23 | 19 | 0.839 |
| 23075 | NM_001297714,NM | **SWAP70** | switching B cell complex | protein_coding | 7 | 5 | 8 | 6 | 0.739 |
| 23076 | NM_015056 | **RRP1B** | ribosomal RNA processir | protein_coding | 111 | 99 | 112 | 100 | 0.888 |
| 23077 | NM_015057,XM_00 | **MYCBP2** | MYC binding protein 2 | protein_coding | 43 | 30 | 44 | 31 | 0.702 |
| 23078 | NM_001009814,NM | **VWA8** | von Willebrand factor A c | protein_coding | 11 | 11 | 12 | 12 | 0.952 |
| 23080 | NM_015060,XM_00 | **AVL9** | AVL9 cell migration asso | protein_coding | 10 | 9 | 11 | 10 | 0.901 |
| 23081 | NM_001146695,NM | **KDM4C** | lysine demethylase 4C | protein_coding | 9 | 9 | 10 | 10 | 1.018 |
| 23082 | NM_001288727,NM | **PPRC1** | PPARG related coactivat | protein_coding | 51 | 52 | 52 | 53 | 1.016 |
| 23085 | NM_001301248,NM | **ERC1** | ELKS/RAB6-interacting/C | protein_coding | 1 | 1 | 2 | 2 | 0.837 |
| 23086 | NM_001144763,NM | **EXPH5** | exophilin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23087 | NM_001304495,NM | **TRIM35** | tripartite motif containing | protein_coding | 16 | 15 | 17 | 16 | 0.968 |
| 23089 | NM_001040152,NM | **PEG10** | paternally expressed 10 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 23090 | NM_001271620,NM | **ZNF423** | zinc finger protein 423 | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 23091 | NM_001076788,NM | **ZC3H13** | zinc finger CCCH-type co | protein_coding | 63 | 52 | 64 | 53 | 0.828 |
| 23092 | NM_001135608,NM | **ARHGAP26** | Rho GTPase activating p | protein_coding | 21 | 18 | 22 | 19 | 0.879 |
| 23093 | NM_015072 | **TTLL5** | tubulin tyrosine ligase lik | protein_coding | 7 | 6 | 8 | 7 | 0.891 |
| 23094 | NM_015073,XM_00 | **SIPA1L3** | signal induced proliferati | protein_coding | 1 | 1 | 2 | 2 | 0.890 |
| 23095 | NM_001365951,NM | **KIF1B** | kinesin family member 1I | protein_coding | 6 | 4 | 7 | 5 | 0.743 |
| 23096 | NM_001111125,NM | **IQSEC2** | IQ motif and Sec7 domai | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 23097 | NM_001300960,NM | **CDK19** | cyclin dependent kinase | protein_coding | 6 | 6 | 7 | 7 | 1.023 |
| 23098 | NM_015077 | **SARM1** | sterile alpha and TIR mo | protein_coding | 1 | 1 | 2 | 2 | 0.976 |
| 23099 | NM_001135776,NM | **ZBTB43** | zinc finger and BTB dom | protein_coding | 13 | 12 | 14 | 13 | 0.950 |
| 23101 | NM_015078,XM_01 | **MCF2L2** | MCF.2 cell line derived tr | protein_coding | 1 | 2 | 2 | 3 | 1.195 |
| 23102 | NM_015079,NM_14 | **TBC1D2B** | TBC1 domain family mer | protein_coding | 103 | 83 | 104 | 84 | 0.808 |
| 23105 | NM_015082,XM_01 | **FSTL4** | follistatin like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23107 | NM_001286748,NM | **MRPS27** | mitochondrial ribosomal | protein_coding | 97 | 91 | 98 | 92 | 0.945 |
| 23108 | NM_001100398,NM | **RAP1GAP2** | RAP1 GTPase activating | protein_coding | 1 | 1 | 2 | 2 | 1.386 |
| 23109 | NM_015086,XM_01 | **DDN** | dendrin | protein_coding | 16 | 15 | 17 | 16 | 0.983 |
| 23111 | NM_001142294,NM | **SPART** | spartin | protein_coding | 1 | 0 | 2 | 1 | 0.791 |
| 23112 | NM_001024843,NM | **TNRC6B** | trinucleotide repeat conta | protein_coding | 9 | 8 | 10 | 9 | 0.870 |
| 23113 | NM_015089,XM_01 | **CUL9** | cullin 9 | protein_coding | 8 | 8 | 9 | 9 | 0.896 |
| 23114 | NM_001005388,NM | **NFASC** | neurofascin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23116 | NM_001308120,NM | **TOGARAM1** | TOG array regulator of a | protein_coding | 2 | 2 | 3 | 3 | 1.081 |
| 23117 | NM_130464 | **NPIPB3** | nuclear pore complex int | protein_coding | 13 | 15 | 14 | 16 | 1.086 |
| 23118 | NM_001292034,NM | **TAB2** | TGF-beta activated kinas | protein_coding | 55 | 47 | 56 | 48 | 0.859 |
| 23119 | NM_015094,XM_01 | **HIC2** | HIC ZBTB transcriptional | protein_coding | 6 | 6 | 7 | 7 | 1.000 |
| 23120 | NM_001366652,NM | **ATP10B** | ATPase phospholipid tra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23122 | NM_001207044,NM | **CLASP2** | cytoplasmic linker associ | protein_coding | 28 | 25 | 29 | 26 | 0.894 |
| 23125 | NM_001171166,NM | **CAMTA2** | calmodulin binding trans | protein_coding | 14 | 13 | 15 | 14 | 0.990 |
| 23126 | NM_001194937,NM | **POGZ** | pogo transposable eleme | protein_coding | 32 | 27 | 33 | 28 | 0.824 |
| 23127 | NM_001303420,NM | **COLGALT2** | collagen beta(1-O)galact | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 23129 | NM_015103,XM_01 | **PLXND1** | plexin D1 | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 23130 | NM_001367971,NM | **ATG2A** | autophagy related 2A | protein_coding | 13 | 13 | 14 | 14 | 0.969 |
| 23131 | NM_001002909,NM | **GPATCH8** | G-patch domain containi | protein_coding | 39 | 36 | 40 | 37 | 0.926 |
| 23132 | NM_001322253,NM | **RAD54L2** | RAD54 like 2 | protein_coding | 21 | 18 | 22 | 19 | 0.868 |
| 23133 | NM_001184896,NM | **PHF8** | PHD finger protein 8 | protein_coding | 35 | 34 | 36 | 35 | 0.996 |
| 23135 | NM_001080424,NM | **KDM6B** | lysine demethylase 6B | protein_coding | 7 | 6 | 8 | 7 | 0.914 |
| 23136 | NM_001281533,NM | **EPB41L3** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23137 | NM_015110,XM_00 | **SMC5** | structural maintenance o | protein_coding | 36 | 28 | 37 | 29 | 0.796 |
| 23138 | NM_015111,XM_00 | **N4BP3** | NEDD4 binding protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23139 | NM_001319245,NM | **MAST2** | microtubule associated s | protein_coding | 38 | 35 | 39 | 36 | 0.933 |
| 23140 | NM_015113,XM_00 | **ZZEF1** | zinc finger ZZ-type and E | protein_coding | 15 | 13 | 16 | 14 | 0.893 |
| 23141 | NM_015114,XM_00 | **ANKLE2** | ankyrin repeat and LEM | protein_coding | 26 | 26 | 27 | 27 | 1.003 |
| 23142 | NM_001040402,NM | **DCUN1D4** | defective in cullin neddyl | protein_coding | 2 | 2 | 3 | 3 | 0.860 |
| 23143 | NM_001164211,NM | **LRCH1** | leucine rich repeats and | protein_coding | 32 | 27 | 33 | 28 | 0.859 |
| 23144 | NM_015117,XM_00 | **ZC3H3** | zinc finger CCCH-type co | protein_coding | 7 | 8 | 8 | 9 | 1.126 |
| 23145 | NR_163594 | **SSPOP** | SCO-spondin, pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 23148 | NM_001146334,XM | **NACAD** | NAC alpha domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23149 | NM_001161357,NM | **FCHO1** | FCH and mu domain cor | protein_coding | 23 | 18 | 24 | 19 | 0.810 |
| 23150 | NM_015123,XM_00 | **FRMD4B** | FERM domain containing | protein_coding | 26 | 17 | 27 | 18 | 0.652 |
| 23151 | NM_001366660,NM | **GRAMD4** | GRAM domain containing | protein_coding | 4 | 5 | 5 | 6 | 1.116 |
| 23152 | NM_001304815,NM | **CIC** | capicua transcriptional re | protein_coding | 28 | 26 | 29 | 27 | 0.935 |
| 23154 | NM_001014839,NM | **NCDN** | neurochondrin | protein_coding | 34 | 40 | 35 | 41 | 1.181 |
| 23155 | NM_001048210,NM | **CLCC1** | chloride channel CLIC lik | protein_coding | 17 | 13 | 18 | 14 | 0.803 |
| 23157 | NM_015129,NM_14 | **SEPTIN6** | septin 6 | protein_coding | 113 | 106 | 114 | 107 | 0.940 |
| 23158 | NM_015130 | **TBC1D9** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23160 | NM_015131 | **WDR43** | WD repeat domain 43 | protein_coding | 111 | 101 | 112 | 102 | 0.910 |
| 23161 | NM_001350862,NM | **SNX13** | sorting nexin 13 | protein_coding | 10 | 8 | 11 | 9 | 0.899 |
| 23162 | NM_001040439,NM | **MAPK8IP3** | mitogen-activated protein | protein_coding | 9 | 10 | 10 | 11 | 1.065 |
| 23163 | NM_001172703,NM | **GGA3** | golgi associated, gamma | protein_coding | 45 | 49 | 46 | 50 | 1.081 |
| 23164 | NM_001364716,NM | **MPRIP** | myosin phosphatase Rh | protein_coding | 20 | 18 | 21 | 19 | 0.908 |
| 23165 | NM_001329434,NM | **NUP205** | nucleoporin 205 | protein_coding | 92 | 79 | 93 | 80 | 0.855 |
| 23166 | NM_015136,XM_00 | **STAB1** | stabilin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23167 | NM_001323553,NM | **EFR3A** | EFR3 homolog A | protein_coding | 26 | 22 | 27 | 23 | 0.857 |
| 23168 | NM_015138 | **RTF1** | RTF1 homolog, Paf1/RN | protein_coding | 67 | 55 | 68 | 56 | 0.825 |
| 23169 | NM_015139,XM_00 | **SLC35D1** | solute carrier family 35 m | protein_coding | 22 | 21 | 23 | 22 | 0.950 |
| 23170 | NM_015140 | **TTLL12** | tubulin tyrosine ligase lik | protein_coding | 70 | 70 | 71 | 71 | 1.001 |
| 23171 | NM_015141,XM_00 | **GPD1L** | glycerol-3-phosphate del | protein_coding | 10 | 9 | 11 | 10 | 0.902 |
| 23172 | NM_032182,XM_01 | **ABRAXAS2** | abraxas 2, BRISC compl | protein_coding | 31 | 27 | 32 | 28 | 0.875 |
| 23173 | NM_015143,XM_01 | **METAP1** | methionyl aminopeptidas | protein_coding | 79 | 69 | 80 | 70 | 0.876 |
| 23174 | NM_015144,XM_00 | **ZCCHC14** | zinc finger CCHC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23175 | NM_001261427,NM | **LPIN1** | lipin 1 | protein_coding | 39 | 34 | 40 | 35 | 0.880 |
| 23176 | NM_001098811,NM | **SEPTIN8** | septin 8 | protein_coding | 9 | 9 | 10 | 10 | 1.037 |
| 23177 | NM_001319100,NM | **CEP68** | centrosomal protein 68 | protein_coding | 0 | 0 | 1 | 1 | 0.886 |
| 23178 | NM_001252119,NM | **PASK** | PAS domain containing s | protein_coding | 26 | 25 | 27 | 26 | 0.980 |
| 23179 | NM_001297669,NM | **RGL1** | ral guanine nucleotide di | protein_coding | 3 | 3 | 4 | 4 | 0.836 |
| 23180 | NM_015150,XM_00 | **RFTN1** | raftlin, lipid raft linker 1 | protein_coding | 106 | 91 | 107 | 92 | 0.861 |
| 23181 | NM_001146115,NM | **DIP2A** | disco interacting protein | protein_coding | 21 | 20 | 22 | 21 | 0.962 |
| 23184 | NM_015154,NR_12 | **MESD** | mesoderm development | protein_coding | 59 | 56 | 60 | 57 | 0.953 |
| 23185 | NM_001351277,NM | **LARP4B** | La ribonucleoprotein 4B | protein_coding | 14 | 12 | 15 | 13 | 0.865 |
| 23186 | NM_015156,XR_94 | **RCOR1** | REST corepressor 1 | protein_coding | 15 | 13 | 16 | 14 | 0.897 |
| 23187 | NM_001144758,NM | **PHLDB1** | pleckstrin homology like | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 23189 | NM_001256876,NM | **KANK1** | KN motif and ankyrin rep | protein_coding | 1 | 1 | 2 | 2 | 0.990 |
| 23190 | NM_014607 | **UBXN4** | UBX domain protein 4 | protein_coding | 75 | 69 | 76 | 70 | 0.919 |
| 23191 | NM_001033028,NM | **CYFIP1** | cytoplasmic FMR1 intera | protein_coding | 1 | 0 | 2 | 1 | 0.912 |
| 23192 | NM_013325,NM_17 | **ATG4B** | autophagy related 4B cy | protein_coding | 82 | 84 | 83 | 85 | 1.024 |
| 23193 | NM_001278192,NM | **GANAB** | glucosidase II alpha subu | protein_coding | 249 | 248 | 250 | 249 | 0.995 |
| 23194 | NM_001278317,NM | **FBXL7** | F-box and leucine rich re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23195 | NM_014611,XM_00 | **MDN1** | midasin AAA ATPase 1 | protein_coding | 32 | 25 | 33 | 26 | 0.785 |
| 23196 | NM_001286722,NM | **FAM120A** | family with sequence sim | protein_coding | 115 | 108 | 116 | 109 | 0.938 |
| 23197 | NM_014613,XM_01 | **FAF2** | Fas associated factor far | protein_coding | 64 | 59 | 65 | 60 | 0.923 |
| 23198 | NM_014614,XM_00 | **PSME4** | proteasome activator sub | protein_coding | 37 | 30 | 38 | 31 | 0.825 |
| 23199 | NM_001134473,NM | **GSE1** | Gse1 coiled-coil protein | protein_coding | 7 | 8 | 8 | 9 | 1.033 |
| 23200 | NM_014616,XM_00 | **ATP11B** | ATPase phospholipid tra | protein_coding | 80 | 67 | 81 | 68 | 0.836 |
| 23201 | NM_001286050,NM | **FAM168A** | family with sequence sim | protein_coding | 19 | 17 | 20 | 18 | 0.865 |
| 23203 | NM_001282944,NM | **PMPCA** | peptidase, mitochondrial | protein_coding | 96 | 100 | 97 | 101 | 1.042 |
| 23204 | NM_001313858,NM | **ARL6IP1** | ADP ribosylation factor li | protein_coding | 164 | 165 | 165 | 166 | 1.001 |
| 23205 | NM_001199377,NM | **ACSBG1** | acyl-CoA synthetase bub | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 23207 | NM_015164,XM_00 | **PLEKHM2** | pleckstrin homology and | protein_coding | 71 | 66 | 72 | 67 | 0.938 |
| 23208 | NM_152280,XM_00 | **SYT11** | synaptotagmin 11 | protein_coding | 68 | 64 | 69 | 65 | 0.953 |
| 23209 | NM_001376472,NM | **MLC1** | modulator of VRAC curre | protein_coding | 81 | 88 | 82 | 89 | 1.091 |
| 23210 | NM_001081461,NM | **JMJD6** | jumonji domain containir | protein_coding | 40 | 42 | 41 | 43 | 1.049 |
| 23211 | NM_015168,XM_00 | **ZC3H4** | zinc finger CCCH-type co | protein_coding | 48 | 49 | 49 | 50 | 1.005 |
| 23212 | NM_015169 | **RRS1** | ribosome biogenesis reg | protein_coding | 193 | 194 | 194 | 195 | 1.003 |
| 23213 | NM_001128204,NM | **SULF1** | sulfatase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23214 | NM_001270940,NM | **XPO6** | exportin 6 | protein_coding | 167 | 163 | 168 | 164 | 0.975 |
| 23215 | NM_015172,XM_00 | **PRRC2C** | proline rich coiled-coil 2C | protein_coding | 130 | 104 | 131 | 105 | 0.802 |
| 23216 | NM_001253912,NM | **TBC1D1** | TBC1 domain family mer | protein_coding | 32 | 31 | 33 | 32 | 0.959 |
| 23217 | NM_001145640,NM | **ZFR2** | zinc finger RNA binding p | protein_coding | 0 | 0 | 1 | 1 | 1.161 |
| 23218 | NM_001365116,NM | **NBEAL2** | neurobeachin like 2 | protein_coding | 28 | 24 | 29 | 25 | 0.869 |
| 23219 | NM_001136115,NM | **FBXO28** | F-box protein 28 | protein_coding | 20 | 18 | 21 | 19 | 0.921 |
| 23220 | NM_001300727,NM | **DTX4** | deltex E3 ubiquitin ligase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23221 | NM_001160036,NM | **RHOBTB2** | Rho related BTB domain | protein_coding | 10 | 10 | 11 | 11 | 1.003 |
| 23223 | NM_001145114,NM | **RRP12** | ribosomal RNA processir | protein_coding | 59 | 61 | 60 | 62 | 1.023 |
| 23224 | NM_015180,NM_18 | **SYNE2** | spectrin repeat containin | protein_coding | 8 | 6 | 9 | 7 | 0.809 |
| 23225 | NM_024923,XM_00 | **NUP210** | nucleoporin 210 | protein_coding | 136 | 133 | 137 | 134 | 0.978 |
| 23228 | NM_001144382,NM | **PLCL2** | phospholipase C like 2 | protein_coding | 34 | 32 | 35 | 33 | 0.924 |
| 23229 | NM_001173479,NM | **ARHGEF9** | Cdc42 guanine nucleotic | protein_coding | 11 | 11 | 12 | 12 | 1.035 |
| 23230 | NM_001018037,NM | **VPS13A** | vacuolar protein sorting 1 | protein_coding | 15 | 11 | 16 | 12 | 0.761 |
| 23231 | NM_001297592,NM | **SEL1L3** | SEL1L family member 3 | protein_coding | 84 | 78 | 85 | 79 | 0.933 |
| 23232 | NM_015188,XM_00 | **TBC1D12** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 23233 | NM_001321729,NM | **EXOC6B** | exocyst complex compor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23234 | NM_015190 | **DNAJC9** | DnaJ heat shock protein | protein_coding | 135 | 132 | 136 | 133 | 0.980 |
| 23235 | NM_015191,XM_01 | **SIK2** | salt inducible kinase 2 | protein_coding | 10 | 10 | 11 | 11 | 1.030 |
| 23236 | NM_015192,NM_18 | **PLCB1** | phospholipase C beta 1 | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 23237 | NM_015193 | **ARC** | activity regulated cytoske | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23239 | NM_194449,XM_01 | **PHLPP1** | PH domain and leucine r | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 23240 | NM_001131007,NM | **TMEM131L** | transmembrane 131 like | protein_coding | 33 | 31 | 34 | 32 | 0.939 |
| 23241 | NM_001100913,NM | **PACS2** | phosphofurin acidic clust | protein_coding | 10 | 10 | 11 | 11 | 1.037 |
| 23242 | NM_001287436,NM | **COBL** | cordon-bleu WH2 repeat | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 23243 | NM_001195098,NM | **ANKRD28** | ankyrin repeat domain 28 | protein_coding | 35 | 35 | 36 | 36 | 0.980 |
| 23244 | NM_001100399,NM | **PDS5A** | PDS5 cohesin associate | protein_coding | 118 | 102 | 119 | 103 | 0.870 |
| 23245 | NM_001184734,NM | **ASTN2** | astrotactin 2 | protein_coding | 2 | 3 | 3 | 4 | 1.249 |
| 23246 | NM_015201 | **BOP1** | BOP1 ribosomal biogene | protein_coding | 102 | 108 | 103 | 109 | 1.059 |
| 23247 | NM_015202,XM_00 | **KATNIP** | katanin interacting protei | protein_coding | 4 | 4 | 5 | 5 | 0.908 |
| 23248 | NM_001297673,NM | **RPRD2** | regulation of nuclear pre | protein_coding | 28 | 27 | 29 | 28 | 0.968 |
| 23250 | NM_015205,NM_03 | **ATP11A** | ATPase phospholipid tra | protein_coding | 39 | 33 | 40 | 34 | 0.854 |
| 23251 | NM_015206,XM_01 | **MINAR1** | membrane integral NOT( | protein_coding | 1 | 1 | 2 | 2 | 0.866 |
| 23252 | NM_015207,XM_00 | **OTUD3** | OTU deubiquitinase 3 | protein_coding | 8 | 7 | 9 | 8 | 0.850 |
| 23253 | NM_001083625,NM | **ANKRD12** | ankyrin repeat domain 12 | protein_coding | 8 | 6 | 9 | 7 | 0.779 |
| 23254 | NM_001017999,NM | **KAZN** | kazrin, periplakin interact | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 23255 | NM_001378205,NM | **MTCL1** | microtubule crosslinking | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 23256 | NM_001257376,NM | **SCFD1** | sec1 family domain conta | protein_coding | 40 | 42 | 41 | 43 | 1.049 |
| 23258 | NM_001243254,NM | **DENND5A** | DENN domain containing | protein_coding | 14 | 13 | 15 | 14 | 0.920 |
| 23259 | NM_001164232,NM | **DDHD2** | DDHD domain containing | protein_coding | 34 | 28 | 35 | 29 | 0.828 |
| 23261 | NM_001195563,NM | **CAMTA1** | calmodulin binding trans | protein_coding | 38 | 39 | 39 | 40 | 1.028 |
| 23262 | NM_001276277,NM | **PPIP5K2** | diphosphoinositol pentak | protein_coding | 22 | 20 | 23 | 21 | 0.874 |
| 23263 | NM_001112732,NM | **MCF2L** | MCF.2 cell line derived tr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23264 | NM_017590,XM_01 | **ZC3H7B** | zinc finger CCCH-type co | protein_coding | 62 | 59 | 63 | 60 | 0.953 |
| 23265 | NM_001013839,NM | **EXOC7** | exocyst complex compor | protein_coding | 52 | 51 | 53 | 52 | 0.981 |
| 23266 | NM_001297704,NM | **ADGRL2** | adhesion G protein-coup | protein_coding | 66 | 59 | 67 | 60 | 0.900 |
| 23268 | NM_001318326,NM | **DNMBP** | dynamin binding protein | protein_coding | 2 | 2 | 3 | 3 | 0.968 |
| 23269 | NM_001080541,NM | **MGA** | MAX dimerization protein | protein_coding | 4 | 3 | 5 | 4 | 0.864 |
| 23270 | NM_021648 | **TSPYL4** | TSPY like 4 | protein_coding | 38 | 37 | 39 | 38 | 0.983 |
| 23271 | NM_001297707,NM | **CAMSAP2** | calmodulin regulated spe | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 23272 | NM_001112736,NM | **TASOR** | transcription activation su | protein_coding | 51 | 44 | 52 | 45 | 0.854 |
| 23274 | NM_001243403,NM | **CLEC16A** | C-type lectin domain con | protein_coding | 8 | 7 | 9 | 8 | 0.924 |
| 23275 | NM_015227,NM_13 | **POFUT2** | protein O-fucosyltransfer | protein_coding | 10 | 7 | 11 | 8 | 0.790 |
| 23276 | NM_025010,XM_00 | **KLHL18** | kelch like family member | protein_coding | 33 | 30 | 34 | 31 | 0.919 |
| 23277 | NM_001366661,NM | **CLUH** | clustered mitochondria h | protein_coding | 69 | 66 | 70 | 67 | 0.964 |
| 23279 | NM_001318399,NM | **NUP160** | nucleoporin 160 | protein_coding | 107 | 93 | 108 | 94 | 0.875 |
| 23281 | NM_001033602,NM | **MTUS2** | microtubule associated s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23283 | NM_015235 | **CSTF2T** | cleavage stimulation fact | protein_coding | 41 | 44 | 42 | 45 | 1.053 |
| 23284 | NM_001322246,NM | **ADGRL3** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23286 | NM_001161661,NM | **WWC1** | WW and C2 domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23287 | NM_001286715,NM | **AGTPBP1** | ATP/GTP binding protein | protein_coding | 18 | 17 | 19 | 18 | 0.933 |
| 23288 | NM_001287499,NM | **IQCE** | IQ motif containing E | protein_coding | 4 | 4 | 5 | 5 | 0.991 |
| 23291 | NM_001378974,NM | **FBXW11** | F-box and WD repeat do | protein_coding | 69 | 60 | 70 | 61 | 0.879 |
| 23293 | NM_001256827,NM | **SMG6** | SMG6 nonsense mediate | protein_coding | 10 | 11 | 11 | 12 | 1.013 |
| 23294 | NM_015245,XM_00 | **ANKS1A** | ankyrin repeat and sterile | protein_coding | 14 | 13 | 15 | 14 | 0.963 |
| 23295 | NM_001142289,NM | **MGRN1** | mahogunin ring finger 1 | protein_coding | 45 | 44 | 46 | 45 | 0.982 |
| 23299 | NM_001003800,NM | **BICD2** | BICD cargo adaptor 2 | protein_coding | 21 | 20 | 22 | 21 | 0.931 |
| 23300 | NM_001300728,NM | **ATMIN** | ATM interactor | protein_coding | 30 | 29 | 31 | 30 | 0.963 |
| 23301 | NM_001142614,NM | **EHBP1** | EH domain binding prote | protein_coding | 12 | 9 | 13 | 10 | 0.771 |
| 23302 | NM_015253,XM_00 | **WSCD1** | WSC domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23303 | NM_015254,XM_00 | **KIF13B** | kinesin family member 13 | protein_coding | 5 | 4 | 6 | 5 | 0.957 |
| 23304 | NM_001184801,NM | **UBR2** | ubiquitin protein ligase E | protein_coding | 17 | 15 | 18 | 16 | 0.922 |
| 23305 | NM_001009185,NM | **ACSL6** | acyl-CoA synthetase lon | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 23306 | NM_001130963,NM | **NEMP1** | nuclear envelope integra | protein_coding | 38 | 35 | 39 | 36 | 0.933 |
| 23307 | NM_015258,XM_00 | **FKBP15** | FKBP prolyl isomerase 1 | protein_coding | 18 | 15 | 19 | 16 | 0.821 |
| 23308 | NM_001283050,NM | **ICOSLG** | inducible T cell costimula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23309 | NM_001297595,NM | **SIN3B** | SIN3 transcription regula | protein_coding | 22 | 20 | 23 | 21 | 0.949 |
| 23310 | NM_001372065,NM | **NCAPD3** | non-SMC condensin II co | protein_coding | 63 | 53 | 64 | 54 | 0.855 |
| 23312 | NM_001174116,NM | **DMXL2** | Dmx like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23313 | NM_001009880,NM | **KIAA0930** | KIAA0930 | protein_coding | 2 | 2 | 3 | 3 | 0.963 |
| 23314 | NM_001172509,NM | **SATB2** | SATB homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23315 | NM_001260491,NM | **SLC9A8** | solute carrier family 9 me | protein_coding | 12 | 12 | 13 | 13 | 0.939 |
| 23316 | NM_001370598,NM | **CUX2** | cut like homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23317 | NM_001329126,NM | **DNAJC13** | DnaJ heat shock protein | protein_coding | 22 | 18 | 23 | 19 | 0.823 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23318 | NM_001009881,NM | **TUT4** | terminal uridylyl transfer | protein_coding | 39 | 31 | 40 | 32 | 0.804 |
| 23321 | NM_001130067,NM | **TRIM2** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23322 | NM_001127897,NM | **RPGRIP1L** | RPGRIP1 like | protein_coding | 7 | 7 | 8 | 8 | 0.955 |
| 23324 | NM_001292038,NM | **MAN2B2** | mannosidase alpha clas | protein_coding | 15 | 15 | 16 | 16 | 0.957 |
| 23325 | NM_001293640,NM | **WASHC4** | WASH complex subunit | protein_coding | 24 | 20 | 25 | 21 | 0.811 |
| 23326 | NM_015276,XM_00 | **USP22** | ubiquitin specific peptida | protein_coding | 66 | 57 | 67 | 58 | 0.860 |
| 23327 | NM_001144964,NM | **NEDD4L** | NEDD4 like E3 ubiquitin | protein_coding | 2 | 2 | 3 | 3 | 1.120 |
| 23328 | NM_001346505,NM | **SASH1** | SAM and SH3 domain co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23329 | NM_001330186,NM | **TBC1D30** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 23331 | NM_001145418,XM | **TTC28** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 23332 | NM_001142273,NM | **CLASP1** | cytoplasmic linker associ | protein_coding | 35 | 30 | 36 | 31 | 0.874 |
| 23333 | NM_001366673,NM | **DPY19L1** | dpy-19 like C-mannosylt | protein_coding | 10 | 10 | 11 | 11 | 0.978 |
| 23334 | NM_001365999,NM | **SZT2** | SZT2 subunit of KICSTO | protein_coding | 9 | 8 | 10 | 9 | 0.896 |
| 23335 | NM_001382485,NM | **WDR7** | WD repeat domain 7 | protein_coding | 14 | 12 | 15 | 13 | 0.901 |
| 23336 | NM_015286,NM_14 | **SYNM** | synemin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23338 | NM_001289984,NM | **JADE2** | jade family PHD finger 2 | protein_coding | 58 | 59 | 59 | 60 | 1.014 |
| 23339 | NM_001301138,NM | **VPS39** | VPS39 subunit of HOPS | protein_coding | 36 | 34 | 37 | 35 | 0.967 |
| 23341 | NM_001287811,NM | **DNAJC16** | DnaJ heat shock protein | protein_coding | 11 | 9 | 12 | 10 | 0.897 |
| 23344 | NM_001184796,NM | **ESYT1** | extended synaptotagmin | protein_coding | 75 | 75 | 76 | 76 | 1.000 |
| 23345 | NM_001347701,NM | **SYNE1** | spectrin repeat containin | protein_coding | 4 | 4 | 5 | 5 | 1.121 |
| 23347 | NM_015295,XM_01 | **SMCHD1** | structural maintenance o | protein_coding | 55 | 45 | 56 | 46 | 0.823 |
| 23348 | NM_001130048,NM | **DOCK9** | dedicator of cytokinesis 9 | protein_coding | 28 | 22 | 29 | 23 | 0.786 |
| 23349 | NM_001304333,NM | **PHF24** | PHD finger protein 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23350 | NM_001080415,NM | **U2SURP** | U2 snRNP associated SU | protein_coding | 95 | 81 | 96 | 82 | 0.854 |
| 23351 | NM_001290256,NM | **KHNYN** | KH and NYN domain cor | protein_coding | 23 | 20 | 24 | 21 | 0.889 |
| 23352 | NM_020765,XM_01 | **UBR4** | ubiquitin protein ligase E | protein_coding | 41 | 32 | 42 | 33 | 0.791 |
| 23353 | NM_001130965,NM | **SUN1** | Sad1 and UNC84 domai | protein_coding | 27 | 22 | 28 | 23 | 0.813 |
| 23354 | NM_015302,XM_01 | **HAUS5** | HAUS augmin like compl | protein_coding | 22 | 24 | 23 | 25 | 1.089 |
| 23355 | NM_001009921,NM | **VPS8** | VPS8 subunit of CORVE | protein_coding | 20 | 16 | 21 | 17 | 0.815 |
| 23357 | NM_001370746,NM | **ANGEL1** | angel homolog 1 | protein_coding | 6 | 6 | 7 | 7 | 1.107 |
| 23358 | NM_015306,XM_00 | **USP24** | ubiquitin specific peptida | protein_coding | 48 | 39 | 49 | 40 | 0.800 |
| 23359 | NM_015307,XM_01 | **FAM189A1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23360 | NM_001318339,NM | **FNBP4** | formin binding protein 4 | protein_coding | 46 | 42 | 47 | 43 | 0.925 |
| 23361 | NM_001080417,NM | **ZNF629** | zinc finger protein 629 | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 23362 | NM_001362819,NM | **PSD3** | pleckstrin and Sec7 dom | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 23363 | NM_001173408,NM | **OBSL1** | obscurin like cytoskeleta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23365 | NM_001198665,NM | **ARHGEF12** | Rho guanine nucleotide | protein_coding | 24 | 20 | 25 | 21 | 0.843 |
| 23366 | NM_001100425,NM | **KIAA0895** | KIAA0895 | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 23367 | NM_001367713,NM | **LARP1** | La ribonucleoprotein 1, t | protein_coding | 247 | 240 | 248 | 241 | 0.971 |
| 23368 | NM_015316,XM_00 | **PPP1R13B** | protein phosphatase 1 re | protein_coding | 9 | 9 | 10 | 10 | 1.030 |
| 23369 | NM_001282752,NM | **PUM2** | pumilio RNA binding fam | protein_coding | 72 | 60 | 73 | 61 | 0.842 |
| 23370 | NM_001130955,NM | **ARHGEF18** | Rho/Rac guanine nucleo | protein_coding | 25 | 24 | 26 | 25 | 0.962 |
| 23371 | NM_015319,NM_17 | **TNS2** | tensin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.063 |
| 23373 | NM_001098482,NM | **CRTC1** | CREB regulated transcri | protein_coding | 4 | 4 | 5 | 5 | 1.206 |
| 23376 | NM_015323 | **UFL1** | UFM1 specific ligase 1 | protein_coding | 24 | 19 | 25 | 20 | 0.830 |
| 23378 | NM_015324,XM_01 | **RRP8** | ribosomal RNA processir | protein_coding | 29 | 24 | 30 | 25 | 0.839 |
| 23379 | NM_015325,XM_01 | **ICE1** | interactor of little elongat | protein_coding | 34 | 30 | 35 | 31 | 0.881 |
| 23380 | NM_001170637,NM | **SRGAP2** | SLIT-ROBO Rho GTPas | protein_coding | 17 | 16 | 18 | 17 | 0.946 |
| 23381 | NM_001323614,NM | **SMG5** | SMG5 nonsense mediate | protein_coding | 74 | 70 | 75 | 71 | 0.942 |
| 23382 | NM_001130720,NM | **AHCYL2** | adenosylhomocysteinase | protein_coding | 7 | 5 | 8 | 6 | 0.750 |
| 23383 | NM_015329,XM_00 | **MAU2** | MAU2 sister chromatid c | protein_coding | 29 | 31 | 30 | 32 | 1.062 |
| 23384 | NM_001145468,NM | **SPECC1L** | sperm antigen with calpc | protein_coding | 24 | 23 | 25 | 24 | 0.963 |
| 23385 | NM_001290184,NM | **NCSTN** | nicastrin | protein_coding | 47 | 47 | 48 | 48 | 1.012 |
| 23386 | NM_015332,XM_01 | **NUDCD3** | NudC domain containing | protein_coding | 15 | 14 | 16 | 15 | 0.930 |
| 23387 | NM_001281748,NM | **SIK3** | SIK family kinase 3 | protein_coding | 21 | 20 | 22 | 21 | 0.930 |
| 23389 | NM_015335,XM_01 | **MED13L** | mediator complex subun | protein_coding | 14 | 10 | 15 | 11 | 0.706 |
| 23390 | NM_001359626,NM | **ZDHHC17** | zinc finger DHHC-type p | protein_coding | 11 | 10 | 12 | 11 | 0.964 |
| 23392 | NM_001363756,NM | **ECPAS** | Ecm29 proteasome adap | protein_coding | 38 | 33 | 39 | 34 | 0.857 |
| 23394 | NM_001282531,NM | **ADNP** | activity dependent neuro | protein_coding | 63 | 56 | 64 | 57 | 0.890 |
| 23395 | NM_001368263,NM | **LARS2** | leucyl-tRNA synthetase 2 | protein_coding | 32 | 33 | 33 | 34 | 1.024 |
| 23396 | NM_001195733,NM | **PIP5K1C** | phosphatidylinositol-4-ph | protein_coding | 9 | 9 | 10 | 10 | 1.043 |
| 23397 | NM_001281710,NM | **NCAPH** | non-SMC condensin I co | protein_coding | 66 | 62 | 67 | 63 | 0.938 |
| 23398 | NM_001278926,NM | **PPWD1** | peptidylprolyl isomerase | protein_coding | 64 | 64 | 65 | 65 | 1.012 |
| 23399 | NM_001143775,NM | **CTDNEP1** | CTD nuclear envelope ph | protein_coding | 95 | 99 | 96 | 100 | 1.052 |
| 23400 | NM_001141973,NM | **ATP13A2** | ATPase cation transporti | protein_coding | 5 | 5 | 6 | 6 | 1.003 |
| 23401 | NM_012083 | **FRAT2** | FRAT regulator of WNT s | protein_coding | 5 | 5 | 6 | 6 | 1.055 |
| 23403 | NM_001080469,NM | **FBXO46** | F-box protein 46 | protein_coding | 21 | 21 | 22 | 22 | 1.007 |
| 23404 | NM_001282708,NM | **EXOSC2** | exosome component 2 | protein_coding | 95 | 89 | 96 | 90 | 0.946 |
| 23405 | NM_001195573,NM | **DICER1** | dicer 1, ribonuclease III | protein_coding | 33 | 28 | 34 | 29 | 0.857 |
| 23406 | NM_021149 | **COTL1** | coactosin like F-actin bin | protein_coding | 1,354 | 1,351 | 1,355 | 1,352 | 0.998 |
| 23408 | NM_001193267,NM | **SIRT5** | sirtuin 5 | protein_coding | 7 | 7 | 8 | 8 | 1.069 |
| 23409 | NM_012240,XM_00 | **SIRT4** | sirtuin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.229 |
| 23410 | NM_001017524,NM | **SIRT3** | sirtuin 3 | protein_coding | 4 | 5 | 5 | 6 | 1.205 |
| 23411 | NM_001142498,NM | **SIRT1** | sirtuin 1 | protein_coding | 25 | 22 | 26 | 23 | 0.895 |
| 23412 | NM_012071 | **COMMD3** | COMM domain containin | protein_coding | 27 | 22 | 28 | 23 | 0.838 |
| 23413 | NM_001128826,NM | **NCS1** | neuronal calcium sensor | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 23414 | NM_001362836,NM | **ZFPM2** | zinc finger protein, FOG | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23415 | NM_012285,XM_01 | **KCNH4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23416 | NM_001314030,NM | **KCNH3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23417 | NM_012213 | **MLYCD** | malonyl-CoA decarboxyl | protein_coding | 1 | 1 | 2 | 2 | 1.100 |
| 23418 | NM_001193640,NM | **CRB1** | crumbs cell polarity com | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 23420 | NM_014287 | **NOMO1** | NODAL modulator 1 | protein_coding | 92 | 92 | 93 | 93 | 1.004 |
| 23421 | NM_001206739,NM | **ITGB3BP** | integrin subunit beta 3 b | protein_coding | 112 | 101 | 113 | 102 | 0.897 |
| 23423 | NM_001301203,NM | **TMED3** | transmembrane p24 traff | protein_coding | 139 | 133 | 140 | 134 | 0.953 |
| 23424 | NM_001302884,NM | **TDRD7** | tudor domain containing | protein_coding | 12 | 11 | 13 | 12 | 0.900 |
| 23426 | NM_001178074,NM | **GRIP1** | glutamate receptor intera | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 23428 | NM_001267036,NM | **SLC7A8** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 23429 | NM_012234 | **RYBP** | RING1 and YY1 binding | protein_coding | 33 | 26 | 34 | 27 | 0.802 |
| 23430 | NM_012217 | **TPSD1** | tryptase delta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23431 | NM_001252127,NM | **AP4E1** | adaptor related protein c | protein_coding | 23 | 19 | 24 | 20 | 0.804 |
| 23432 | NM_001267609,NM | **GPR161** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23433 | NM_012249,XM_00 | **RHOQ** | ras homolog family mem | protein_coding | 13 | 10 | 14 | 11 | 0.805 |
| 23434 | NR_125802 | **LINC01565** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.934 |
| 23435 | NM_007375,XM_01 | **TARDBP** | TAR DNA binding protein | protein_coding | 214 | 185 | 215 | 186 | 0.868 |
| 23436 | NM_007352 | **CELA3B** | chymotrypsin like elastas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23437 | rna-TRS-AGA2-3 | **TRS-AGA2-3** | tRNA-Ser | tRNA | 1 | 0 | 2 | 1 | 0.640 |
| 23438 | NM_001278731,NM | **HARS2** | histidyl-tRNA synthetase | protein_coding | 39 | 41 | 40 | 42 | 1.070 |
| 23439 | NM_001142447,NM | **ATP1B4** | ATPase Na+/K+ transpor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23440 | NM_032109 | **OTP** | orthopedia homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23443 | NM_001271684,NM | **SLC35A3** | solute carrier family 35 m | protein_coding | 15 | 11 | 16 | 12 | 0.746 |
| 23446 | NM_001286730,NM | **SLC44A1** | solute carrier family 44 m | protein_coding | 42 | 35 | 43 | 36 | 0.827 |
| 23450 | NM_012426 | **SF3B3** | splicing factor 3b subuni | protein_coding | 80 | 76 | 81 | 77 | 0.947 |
| 23451 | NM_001005526,NM | **SF3B1** | splicing factor 3b subuni | protein_coding | 290 | 249 | 291 | 250 | 0.859 |
| 23452 | NM_012098,XM_00 | **ANGPTL2** | angiopoietin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23456 | NM_012089,XM_01 | **ABCB10** | ATP binding cassette sul | protein_coding | 20 | 18 | 21 | 19 | 0.930 |
| 23457 | NM_001243013,NM | **ABCB9** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 23460 | NM_080284,XM_01 | **ABCA6** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23461 | NM_018672,NM_17 | **ABCA5** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 23462 | NM_001040708,NM | **HEY1** | hes related family bHLH | protein_coding | 0 | 0 | 1 | 1 | 0.820 |
| 23463 | NM_012405,XM_01 | **ICMT** | isoprenylcysteine carbox | protein_coding | 165 | 162 | 166 | 163 | 0.982 |
| 23464 | NM_001171690,NM | **GCAT** | glycine C-acetyltransfera | protein_coding | 17 | 18 | 18 | 19 | 1.094 |
| 23466 | NM_001303494,NM | **CBX6** | chromobox 6 | protein_coding | 120 | 119 | 121 | 120 | 0.994 |
| 23467 | NM_014293 | **NPTXR** | neuronal pentraxin recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23468 | NM_001127321,NM | **CBX5** | chromobox 5 | protein_coding | 58 | 48 | 59 | 49 | 0.824 |
| 23469 | NM_001290259,NM | **PHF3** | PHD finger protein 3 | protein_coding | 20 | 15 | 21 | 16 | 0.775 |
| 23471 | NM_001317804,NM | **TRAM1** | translocation associated | protein_coding | 126 | 106 | 127 | 107 | 0.848 |
| 23473 | NM_001376086,NM | **CAPN7** | calpain 7 | protein_coding | 25 | 24 | 26 | 25 | 0.978 |
| 23474 | NM_001320867,NM | **ETHE1** | ETHE1 persulfide dioxyg | protein_coding | 13 | 13 | 14 | 14 | 0.969 |
| 23475 | NM_001318249,NM | **QPRT** | quinolinate phosphoribos | protein_coding | 13 | 11 | 14 | 12 | 0.829 |
| 23476 | NM_001330384,NM | **BRD4** | bromodomain containing | protein_coding | 54 | 53 | 55 | 54 | 0.975 |
| 23478 | NM_001271918,NM | **SEC11A** | SEC11 homolog A, signa | protein_coding | 227 | 219 | 228 | 220 | 0.963 |
| 23479 | NM_001301140,NM | **ISCU** | iron-sulfur cluster assem | protein_coding | 110 | 112 | 111 | 113 | 1.020 |
| 23480 | NM_001012456,NM | **SEC61G** | SEC61 translocon subur | protein_coding | 189 | 175 | 190 | 176 | 0.928 |
| 23481 | NM_001243225,NM | **PES1** | pescadillo ribosomal bio | protein_coding | 174 | 182 | 175 | 183 | 1.047 |
| 23483 | NM_001304430,NM | **TGDS** | TDP-glucose 4,6-dehydr | protein_coding | 49 | 49 | 50 | 50 | 0.997 |
| 23484 | NM_001128208,NM | **LEPROTL1** | leptin receptor overlappir | protein_coding | 22 | 21 | 23 | 22 | 0.948 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23491 | NM_001185176,NM | **CES3** | carboxylesterase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.158 |
| 23492 | NM_001346743,NM | **CBX7** | chromobox 7 | protein_coding | 1 | 1 | 2 | 2 | 1.100 |
| 23493 | NM_012259,XM_01 | **HEY2** | hes related family bHLH | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23495 | NM_012452 | **TNFRSF13B** | TNF receptor superfamil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23498 | NM_012205,XM_00 | **HAAO** | 3-hydroxyanthranilate 3,4 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 23499 | NM_012090 | **MACF1** | microtubule actin crossli | protein_coding | 57 | 42 | 58 | 43 | 0.740 |
| 23500 | NM_001201427,NM | **DAAM2** | dishevelled associated a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23503 | NM_015346,XM_01 | **ZFYVE26** | zinc finger FYVE-type co | protein_coding | 9 | 8 | 10 | 9 | 0.921 |
| 23504 | NM_001351226,NM | **RIMBP2** | RIMS binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 23505 | NM_015348,XM_00 | **TMEM131** | transmembrane protein 1 | protein_coding | 31 | 26 | 32 | 27 | 0.829 |
| 23506 | NM_001318819,NM | **BICRAL** | BRD4 interacting chroma | protein_coding | 15 | 12 | 16 | 13 | 0.803 |
| 23507 | NM_001134476,NM | **LRRC8B** | leucine rich repeat conta | protein_coding | 4 | 3 | 5 | 4 | 0.792 |
| 23508 | NM_015351 | **TTC9** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23509 | NM_015352,NM_17 | **POFUT1** | protein O-fucosyltransfer | protein_coding | 95 | 93 | 96 | 94 | 0.980 |
| 23510 | NM_015353,NR_11 | **KCTD2** | potassium channel tetrar | protein_coding | 27 | 28 | 28 | 29 | 1.040 |
| 23511 | NM_015354 | **NUP188** | nucleoporin 188 | protein_coding | 69 | 66 | 70 | 67 | 0.957 |
| 23512 | NM_001321207,NM | **SUZ12** | SUZ12 polycomb repres | protein_coding | 168 | 145 | 169 | 146 | 0.864 |
| 23513 | NM_015356,NM_18 | **SCRIB** | scribble planar cell polar | protein_coding | 17 | 17 | 18 | 18 | 0.969 |
| 23514 | NM_001080394,NM | **SPIDR** | scaffold protein involved | protein_coding | 29 | 28 | 30 | 29 | 0.942 |
| 23515 | NM_001320445,NM | **MORC3** | MORC family CW-type z | protein_coding | 25 | 19 | 26 | 20 | 0.774 |
| 23516 | NM_001128431,NM | **SLC39A14** | solute carrier family 39 m | protein_coding | 74 | 64 | 75 | 65 | 0.872 |
| 23517 | NM_015360 | **MTREX** | Mtr4 exosome RNA helic | protein_coding | 101 | 87 | 102 | 88 | 0.860 |
| 23518 | NM_001282798,NM | **R3HDM1** | R3H domain containing 1 | protein_coding | 73 | 61 | 74 | 62 | 0.835 |
| 23519 | NM_012404 | **ANP32D** | acidic nuclear phosphop | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 23520 | NM_012403 | **ANP32C** | acidic nuclear phosphop | protein_coding | 0 | 0 | 1 | 1 | 0.937 |
| 23521 | NM_001270491,NM | **RPL13A** | ribosomal protein L13a | protein_coding | 3,018 | 3,062 | 3,019 | 3,063 | 1.015 |
| 23522 | NM_001256468,NM | **KAT6B** | lysine acetyltransferase 6 | protein_coding | 16 | 14 | 17 | 15 | 0.904 |
| 23523 | NM_001199281,NM | **CABIN1** | calcineurin binding prote | protein_coding | 29 | 30 | 30 | 31 | 1.018 |
| 23524 | NM_016333,XM_00 | **SRRM2** | serine/arginine repetitive | protein_coding | 157 | 150 | 158 | 151 | 0.959 |
| 23526 | NM_001258328,NM | **ARHGAP45** | Rho GTPase activating p | protein_coding | 185 | 180 | 186 | 181 | 0.972 |
| 23527 | NM_012287,XM_00 | **ACAP2** | ArfGAP with coiled-coil, a | protein_coding | 38 | 33 | 39 | 34 | 0.872 |
| 23528 | NM_001281293,NM | **ZNF281** | zinc finger protein 281 | protein_coding | 24 | 21 | 25 | 22 | 0.888 |
| 23529 | NM_001166212,NM | **CLCF1** | cardiotrophin like cytokin | protein_coding | 0 | 1 | 1 | 2 | 1.349 |
| 23530 | NM_001331026,NM | **NNT** | nicotinamide nucleotide t | protein_coding | 39 | 36 | 40 | 37 | 0.930 |
| 23531 | NM_012329,XM_00 | **MMD** | monocyte to macrophag | protein_coding | 5 | 5 | 6 | 6 | 1.010 |
| 23532 | NM_001291715,NM | **PRAME** | preferentially expressed | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23533 | NM_001142633,NM | **PIK3R5** | phosphoinositide-3-kinas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23534 | NM_001191028,NM | **TNPO3** | transportin 3 | protein_coding | 93 | 83 | 94 | 84 | 0.897 |
| 23536 | NM_001324444,NM | **ADAT1** | adenosine deaminase tR | protein_coding | 19 | 17 | 20 | 18 | 0.909 |
| 23538 | NM_012375 | **OR52A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23539 | NM_013356,XM_01 | **SLC16A8** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23540 | rna-TRS-TGA4-1 | **TRS-TGA4-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 23541 | NM_001204204,NM | **SEC14L2** | SEC14 like lipid binding | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 23542 | NM_012324,XM_01 | **MAPK8IP2** | mitogen-activated protein | protein_coding | 1 | 1 | 2 | 2 | 1.208 |
| 23543 | NM_001031695,NM | **RBFOX2** | RNA binding fox-1 homo | protein_coding | 1 | 1 | 2 | 2 | 0.904 |
| 23544 | NM_001184773,NM | **SEZ6L** | seizure related 6 homolo | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 23545 | NM_012463,XM_02 | **ATP6V0A2** | ATPase H+ transporting | protein_coding | 28 | 26 | 29 | 27 | 0.936 |
| 23546 | NM_012451,XM_00 | **SYNGR4** | synaptogyrin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.231 |
| 23547 | NM_012276 | **LILRA4** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23548 | NM_012382,XM_01 | **TTC33** | tetratricopeptide repeat c | protein_coding | 13 | 10 | 14 | 11 | 0.771 |
| 23549 | NM_001319116,NM | **DNPEP** | aspartyl aminopeptidase | protein_coding | 60 | 58 | 61 | 59 | 0.963 |
| 23550 | NM_012455,XM_00 | **PSD4** | pleckstrin and Sec7 dom | protein_coding | 114 | 102 | 115 | 103 | 0.895 |
| 23551 | NM_001366725,NM | **RASD2** | RASD family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23552 | NM_001039803,NM | **CDK20** | cyclin dependent kinase | protein_coding | 1 | 1 | 2 | 2 | 1.176 |
| 23553 | NM_012269,XM_01 | **HYAL4** | hyaluronidase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23554 | NM_012338,XM_00 | **TSPAN12** | tetraspanin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23555 | NM_001351263,NM | **TSPAN15** | tetraspanin 15 | protein_coding | 1 | 0 | 2 | 1 | 0.880 |
| 23556 | NM_012327,NM_17 | **PIGN** | phosphatidylinositol glyc | protein_coding | 8 | 7 | 9 | 8 | 0.907 |
| 23557 | NM_012437,NR_05 | **SNAPIN** | SNAP associated protein | protein_coding | 61 | 72 | 62 | 73 | 1.166 |
| 23558 | NM_001330499,NM | **WBP2** | WW domain binding pro | protein_coding | 56 | 64 | 57 | 65 | 1.144 |
| 23559 | NM_012477 | **WBP1** | WW domain binding pro | protein_coding | 28 | 30 | 29 | 31 | 1.060 |
| 23560 | NM_012341,XM_02 | **GTPBP4** | GTP binding protein 4 | protein_coding | 79 | 76 | 80 | 77 | 0.967 |
| 23562 | NM_001146077,NM | **CLDN14** | claudin 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23563 | NM_024533 | **CHST5** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23564 | NM_001303007,NM | **DDAH2** | dimethylarginine dimeth | protein_coding | 24 | 22 | 25 | 23 | 0.919 |
| 23566 | NM_012152,XM_02 | **LPAR3** | lysophosphatidic acid re | protein_coding | 11 | 12 | 12 | 13 | 1.075 |
| 23567 | NM_001308213,NM | **ZNF346** | zinc finger protein 346 | protein_coding | 21 | 22 | 22 | 23 | 1.022 |
| 23568 | NM_012106 | **ARL2BP** | ADP ribosylation factor li | protein_coding | 67 | 67 | 68 | 68 | 1.003 |
| 23569 | NM_012387,XM_01 | **PADI4** | peptidyl arginine deimina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23574 | NR_026881 | **PRG1** | p53-responsive gene 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 23576 | NM_001134445,NM | **DDAH1** | dimethylarginine dimeth | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 23580 | NM_012121,XM_00 | **CDC42EP4** | CDC42 effector protein 4 | protein_coding | 2 | 1 | 3 | 2 | 0.823 |
| 23581 | NM_012114,XM_01 | **CASP14** | caspase 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23582 | NM_012142,NR_02 | **CCNDBP1** | cyclin D1 binding protein | protein_coding | 39 | 39 | 40 | 40 | 0.987 |
| 23583 | NM_001243787,NM | **SMUG1** | single-strand-selective m | protein_coding | 9 | 10 | 10 | 11 | 1.067 |
| 23584 | NM_001329920,NM | **VSIG2** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23585 | NM_014313,XM_00 | **TMEM50A** | transmembrane protein 5 | protein_coding | 102 | 97 | 103 | 98 | 0.952 |
| 23586 | NM_014314 | **DDX58** | DExD/H-box helicase 58 | protein_coding | 15 | 12 | 16 | 13 | 0.802 |
| 23587 | NM_015362,NM_20 | **ELP5** | elongator acetyltransfera | protein_coding | 63 | 63 | 64 | 64 | 0.998 |
| 23588 | NM_014315,XM_00 | **KLHDC2** | kelch domain containing | protein_coding | 7 | 7 | 8 | 8 | 1.033 |
| 23589 | NM_001042476,NM | **CARHSP1** | calcium regulated heat s | protein_coding | 61 | 64 | 62 | 65 | 1.060 |
| 23590 | NM_001321978,NM | **PDSS1** | decaprenyl diphosphate | protein_coding | 11 | 13 | 12 | 14 | 1.142 |
| 23591 | NR_026770 | **FAM215A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 23592 | NM_001167614,NM | **LEMD3** | LEM domain containing 3 | protein_coding | 25 | 22 | 26 | 23 | 0.888 |
| 23593 | NM_001326380,NM | **HEBP2** | heme binding protein 2 | protein_coding | 1 | 1 | 2 | 2 | 1.034 |
| 23594 | NM_014321,NR_03 | **ORC6** | origin recognition comple | protein_coding | 92 | 90 | 93 | 91 | 0.976 |
| 23595 | NM_001197259,NM | **ORC3** | origin recognition comple | protein_coding | 40 | 38 | 41 | 39 | 0.940 |
| 23596 | NM_001381855,NM | **OPN3** | opsin 3 | protein_coding | 15 | 11 | 16 | 12 | 0.742 |
| 23597 | NM_001033583,NM | **ACOT9** | acyl-CoA thioesterase 9 | protein_coding | 16 | 14 | 17 | 15 | 0.885 |
| 23598 | NM_014323,NM_03 | **PATZ1** | POZ/BTB and AT hook c | protein_coding | 17 | 19 | 18 | 20 | 1.092 |
| 23600 | NM_001167595,NM | **AMACR** | alpha-methylacyl-CoA ra | protein_coding | 6 | 8 | 7 | 9 | 1.184 |
| 23601 | NM_001301167,NM | **CLEC5A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23603 | NM_001105237,NM | **CORO1C** | coronin 1C | protein_coding | 26 | 25 | 27 | 26 | 0.970 |
| 23604 | NM_001363730,NM | **DAPK2** | death associated protein | protein_coding | 11 | 7 | 12 | 8 | 0.667 |
| 23605 | gene-HMGN2P9 | **HMGN2P9** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23606 | gene-HMGN2P10 | **HMGN2P10** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23607 | NM_012120,XM_00 | **CD2AP** | CD2 associated protein | protein_coding | 70 | 55 | 71 | 56 | 0.785 |
| 23608 | NM_001145125,NM | **MKRN1** | makorin ring finger prote | protein_coding | 41 | 45 | 42 | 46 | 1.084 |
| 23609 | NM_001271707,NM | **MKRN2** | makorin ring finger prote | protein_coding | 32 | 29 | 33 | 30 | 0.912 |
| 23612 | NM_012396,NR_07 | **PHLDA3** | pleckstrin homology like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23613 | NM_001281769,NM | **ZMYND8** | zinc finger MYND-type co | protein_coding | 12 | 13 | 13 | 14 | 1.056 |
| 23614 | NR_002181 | **PPY2P** | pancreatic polypeptide 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 23615 | NR_003064 | **PYY2** | peptide YY 2 (pseudoge | transcribed_pseu | 1 | 0 | 2 | 1 | 0.715 |
| 23616 | NM_001350055,NM | **SH3BP1** | SH3 domain binding pro | protein_coding | 141 | 143 | 142 | 144 | 1.013 |
| 23617 | NM_053006 | **TSSK2** | testis specific serine kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23619 | NM_001146326,NM | **ZIM2** | zinc finger imprinted 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23620 | NM_012344,XM_00 | **NTSR2** | neurotensin receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23621 | NM_001207048,NM | **BACE1** | beta-secretase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23623 | NM_001105203,NM | **RUSC1** | RUN and SH3 domain co | protein_coding | 9 | 8 | 10 | 9 | 0.925 |
| 23624 | NM_001130852,NM | **CBLC** | Cbl proto-oncogene C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23625 | NM_001098784,NM | **FAM89B** | family with sequence sim | protein_coding | 70 | 79 | 71 | 80 | 1.139 |
| 23626 | NM_012444,NM_19 | **SPO11** | SPO11 initiator of meiotic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23627 | NM_012409 | **PRND** | prion like protein doppel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23629 | NR_002730 | **BRD7P3** | bromodomain containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 23630 | NM_012282 | **KCNE5** | potassium voltage-gated | protein_coding | 1 | 1 | 2 | 2 | 0.935 |
| 23632 | NM_012113,XM_00 | **CA14** | carbonic anhydrase 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23633 | NM_012316,XM_00 | **KPNA6** | karyopherin subunit alph | protein_coding | 47 | 42 | 48 | 43 | 0.904 |
| 23635 | NM_001256732,NM | **SSBP2** | single stranded DNA bin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23636 | NM_001193357,NM | **NUP62** | nucleoporin 62 | protein_coding | 185 | 190 | 186 | 191 | 1.025 |
| 23637 | NM_012197,XM_01 | **RABGAP1** | RAB GTPase activating p | protein_coding | 25 | 21 | 26 | 22 | 0.828 |
| 23639 | NM_001321961,NM | **LRRC6** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 23640 | NM_001130106,NM | **HSPBP1** | HSPA (Hsp70) binding p | protein_coding | 73 | 80 | 74 | 81 | 1.105 |
| 23641 | NM_012317 | **LDOC1** | LDOC1 regulator of NFK | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23642 | NR_003098,NR_15 | **SNHG1** | small nucleolar RNA hos | lncRNA | 179 | 182 | 180 | 183 | 1.021 |
| 23643 | NM_001195797,NM | **LY96** | lymphocyte antigen 96 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23644 | NM_014329 | **EDC4** | enhancer of mRNA deca | protein_coding | 67 | 70 | 68 | 71 | 1.047 |

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|---|---|---|---|---|---|---|---|---|---|
| 23645 | NM_014330 | **PPP1R15A** | protein phosphatase 1 re | protein_coding | 21 | 18 | 22 | 19 | 0.891 |
| 23646 | NM_001031696,NM | **PLD3** | phospholipase D family r | protein_coding | 20 | 26 | 21 | 27 | 1.283 |
| 23647 | NM_001242854,NM | **ARFIP2** | ADP ribosylation factor ir | protein_coding | 94 | 99 | 95 | 100 | 1.059 |
| 23648 | NM_001009955,NM | **SSBP3** | single stranded DNA bin | protein_coding | 119 | 123 | 120 | 124 | 1.031 |
| 23649 | NM_002689,XM_01 | **POLA2** | DNA polymerase alpha 2 | protein_coding | 75 | 73 | 76 | 74 | 0.975 |
| 23650 | NM_001330382,NM | **TRIM29** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23654 | NM_001376864,NM | **PLXNB2** | plexin B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23657 | NM_014331,XM_01 | **SLC7A11** | solute carrier family 7 me | protein_coding | 7 | 5 | 8 | 6 | 0.679 |
| 23658 | NM_001130710,NM | **LSM5** | LSM5 homolog, U6 smal | protein_coding | 65 | 60 | 66 | 61 | 0.938 |
| 23659 | NM_001363551,NM | **PLA2G15** | phospholipase A2 group | protein_coding | 5 | 5 | 6 | 6 | 0.938 |
| 23660 | NM_001318082,NM | **ZKSCAN5** | zinc finger with KRAB an | protein_coding | 21 | 21 | 22 | 22 | 1.014 |
| 23666 | NR_144546 | **UBBP4** | ubiquitin B pseudogene | transcribed_pseu | 1 | 1 | 2 | 2 | 1.023 |
| 23667 | gene-UBBP3 | **UBBP3** | ubiquitin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23668 | gene-UBBP2 | **UBBP2** | ubiquitin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23670 | NM_001135820,NM | **CEMIP2** | cell migration inducing h | protein_coding | 72 | 64 | 73 | 65 | 0.892 |
| 23671 | NM_001305134,NM | **TMEFF2** | transmembrane protein v | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23673 | NM_177424 | **STX12** | syntaxin 12 | protein_coding | 25 | 22 | 26 | 23 | 0.878 |
| 23676 | NM_014332,NR_04 | **SMPX** | small muscle protein X-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23677 | NM_001371302,NM | **SH3BP4** | SH3 domain binding pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23678 | NM_001033578,NM | **SGK3** | serum/glucocorticoid reg | protein_coding | 2 | 2 | 3 | 3 | 0.855 |
| 23682 | NM_022337,XM_01 | **RAB38** | RAB38, member RAS on | protein_coding | 3 | 4 | 4 | 5 | 1.096 |
| 23683 | NM_005813,XM_00 | **PRKD3** | protein kinase D3 | protein_coding | 51 | 41 | 52 | 42 | 0.803 |
| 23704 | NM_080671 | **KCNE4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 23705 | NM_001098517,NM | **CADM1** | cell adhesion molecule 1 | protein_coding | 4 | 4 | 5 | 5 | 1.128 |
| 23708 | NM_018094 | **GSPT2** | G1 to S phase transition | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 23710 | NM_001363598,NM | **GABARAPL1** | GABA type A receptor as | protein_coding | 20 | 19 | 21 | 20 | 0.948 |
| 23729 | NM_013276 | **SHPK** | sedoheptulokinase | protein_coding | 11 | 10 | 12 | 11 | 0.930 |
| 23731 | NM_032012,XM_01 | **TMEM245** | transmembrane protein 2 | protein_coding | 28 | 23 | 29 | 24 | 0.840 |
| 23732 | NM_014334,XM_01 | **FRRS1L** | ferric chelate reductase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23738 | gene-OFD1P17 | **OFD1P17** | OFD1 pseudogene 17 | pseudogene | 0 | 0 | 1 | 1 | 1.028 |
| 23741 | NM_014335 | **EID1** | EP300 interacting inhibit | protein_coding | 362 | 336 | 363 | 337 | 0.930 |
| 23742 | NM_018958 | **NPAP1** | nuclear pore associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23743 | NM_001178005,NM | **BHMT2** | betaine--homocysteine S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23746 | NM_001033054,NM | **AIPL1** | aryl hydrocarbon recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23752 | gene-TSSK1A | **TSSK1A** | testis specific serine kina | pseudogene | 0 | 0 | 1 | 1 | 0.914 |
| 23753 | NM_022044 | **SDF2L1** | stromal cell derived factc | protein_coding | 119 | 136 | 120 | 137 | 1.142 |
| 23754 | gene-RPL32P5 | **RPL32P5** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23755 | gene-SIRPAP1 | **SIRPAP1** | signal regulatory protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23757 | gene-ARSFP1 | **ARSFP1** | arylsulfatase F pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23758 | gene-SFPQP1 | **SFPQP1** | splicing factor proline an | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 23759 | NM_001317996,NM | **PPIL2** | peptidylprolyl isomerase | protein_coding | 38 | 37 | 39 | 38 | 0.996 |
| 23760 | NM_001284277,NM | **PITPNB** | phosphatidylinositol tran | protein_coding | 109 | 94 | 110 | 95 | 0.868 |
| 23761 | NM_001326411,NM | **PISD** | phosphatidylserine deca | protein_coding | 30 | 31 | 31 | 32 | 1.040 |
| 23762 | NM_001282738,NM | **OSBP2** | oxysterol binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23764 | NM_001161572,NM | **MAFF** | MAF bZIP transcription fa | protein_coding | 1 | 1 | 2 | 2 | 0.894 |
| 23765 | NM_001289905,NM | **IL17RA** | interleukin 17 receptor A | protein_coding | 13 | 13 | 14 | 14 | 0.986 |
| 23766 | NR_028287 | **GABARAPL3** | GABA type A receptor as | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 23767 | NM_013281,NM_19 | **FLRT3** | fibronectin leucine rich tr | protein_coding | 0 | 0 | 1 | 1 | 0.927 |
| 23768 | NM_001346143,NM | **FLRT2** | fibronectin leucine rich tr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23769 | NM_013280,XM_00 | **FLRT1** | fibronectin leucine rich tr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23770 | NM_001308373,NM | **FKBP8** | FKBP prolyl isomerase 8 | protein_coding | 157 | 171 | 158 | 172 | 1.093 |
| 23774 | NM_001304808,NM | **BRD1** | bromodomain containing | protein_coding | 30 | 30 | 31 | 31 | 1.018 |
| 23779 | NM_001017526,NM | **ARHGAP8** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23780 | NM_030882,NM_14 | **APOL2** | apolipoprotein L2 | protein_coding | 76 | 78 | 77 | 79 | 1.023 |
| 23782 | NR_040114 | **AP1B1P1** | AP1B1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 23783 | NR_040115 | **ANKRD62P1-PARP4P** | ANKRD62P1-PARP4P3 r | transcribed_pseu | 1 | 1 | 2 | 2 | 0.749 |
| 23784 | NM_001136213 | **POTEH** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 23786 | NM_001270726,NM | **BCL2L13** | BCL2 like 13 | protein_coding | 41 | 40 | 42 | 41 | 0.990 |
| 23787 | NM_001271641,NM | **MTCH1** | mitochondrial carrier 1 | protein_coding | 139 | 134 | 140 | 135 | 0.966 |
| 23788 | NM_001317231,NM | **MTCH2** | mitochondrial carrier 2 | protein_coding | 155 | 155 | 156 | 156 | 0.999 |
| 24137 | NM_012310 | **KIF4A** | kinesin family member 4, | protein_coding | 55 | 49 | 56 | 50 | 0.899 |
| 24138 | NM_012420 | **IFIT5** | interferon induced protei | protein_coding | 14 | 10 | 15 | 11 | 0.765 |
| 24139 | NM_001193268,NM | **EML2** | EMAP like 2 | protein_coding | 50 | 49 | 51 | 50 | 0.989 |
| 24140 | NM_001282157,NM | **FTSJ1** | FtsJ RNA 2'-O-methyltra | protein_coding | 116 | 109 | 117 | 110 | 0.942 |
| 24141 | NM_001199897,NM | **LAMP5** | lysosomal associated me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 24142 | NM_001200016,NM | **NAA80** | N-alpha-acetyltransferas | protein_coding | 6 | 6 | 7 | 7 | 1.106 |
| 24144 | NM_001008697,NM | **TFIP11** | tuftelin interacting protei | protein_coding | 45 | 47 | 46 | 48 | 1.040 |
| 24145 | NM_015368,XM_01 | **PANX1** | pannexin 1 | protein_coding | 25 | 23 | 26 | 24 | 0.913 |
| 24146 | NM_001185080,NM | **CLDN15** | claudin 15 | protein_coding | 12 | 14 | 13 | 15 | 1.149 |
| 24147 | NM_014344 | **FJX1** | four-jointed box kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 24148 | NM_012469,XM_00 | **PRPF6** | pre-mRNA processing fa | protein_coding | 124 | 126 | 125 | 127 | 1.013 |
| 24149 | NM_014345 | **ZNF318** | zinc finger protein 318 | protein_coding | 18 | 16 | 19 | 17 | 0.855 |
| 24150 | NM_016212,NR_11 | **TP53TG3** | TP53 target 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25758 | NM_012194,XM_00 | **KIAA1549L** | KIAA1549 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25759 | NM_012435,XM_01 | **SHC2** | SHC adaptor protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25763 | NM_012274 | **H2AP** | H2A.P histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25764 | NM_001199885,NM | **HYPK** | huntingtin interacting pro | protein_coding | 86 | 103 | 87 | 104 | 1.194 |
| 25766 | NM_001031698,NM | **PRPF40B** | pre-mRNA processing fa | protein_coding | 1 | 0 | 2 | 1 | 0.858 |
| 25769 | NM_001193288,NM | **SLC24A2** | solute carrier family 24 m | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 25770 | NM_015370,XM_00 | **C22orf31** | chromosome 22 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25771 | NM_001284303,NM | **TBC1D22A** | TBC1 domain family mer | protein_coding | 12 | 12 | 13 | 13 | 1.069 |
| 25774 | NM_001358664,NR | **GSTT4** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25775 | NM_001302819,NM | **C22orf24** | chromosome 22 open rea | protein_coding | 3 | 2 | 4 | 3 | 0.896 |
| 25776 | NM_001002880,NM | **CBY1** | chibby family member 1, | protein_coding | 6 | 6 | 7 | 7 | 1.029 |
| 25777 | NM_001199579,NM | **SUN2** | Sad1 and UNC84 domai | protein_coding | 82 | 84 | 83 | 85 | 1.017 |
| 25778 | NM_015375,NM_19 | **DSTYK** | dual serine/threonine an | protein_coding | 4 | 4 | 5 | 5 | 1.005 |
| 25780 | NM_001139488,NM | **RASGRP3** | RAS guanyl releasing pr | protein_coding | 11 | 10 | 12 | 11 | 0.913 |
| 25782 | NM_012414 | **RAB3GAP2** | RAB3 GTPase activating | protein_coding | 21 | 18 | 22 | 19 | 0.886 |
| 25786 | NR_024157 | **DGCR11** | DiGeorge syndrome criti | lncRNA | 1 | 1 | 2 | 2 | 1.182 |
| 25788 | NM_001205262,NM | **RAD54B** | RAD54 homolog B | protein_coding | 14 | 12 | 15 | 13 | 0.816 |
| 25789 | NM_012109,XR_002 | **TMEM59L** | transmembrane protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25790 | NM_012337 | **CFAP45** | cilia and flagella associa | protein_coding | 2 | 1 | 3 | 2 | 0.987 |
| 25791 | NM_001114090,NM | **NGEF** | neuronal guanine nuclec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25792 | NM_001131015,NM | **CIZ1** | CDKN1A interacting zinc | protein_coding | 96 | 97 | 97 | 98 | 1.014 |
| 25793 | NM_001033024,NM | **FBXO7** | F-box protein 7 | protein_coding | 117 | 118 | 118 | 119 | 1.010 |
| 25794 | NM_001077182,NM | **FSCN2** | fascin actin-bundling pro | protein_coding | 1 | 0 | 2 | 1 | 0.892 |
| 25796 | NM_012088,XM_01 | **PGLS** | 6-phosphogluconolacton | protein_coding | 52 | 62 | 53 | 63 | 1.187 |
| 25797 | NM_012413 | **QPCT** | glutaminyl-peptide cyclo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25798 | NM_001159491,NM | **BRI3** | brain protein I3 | protein_coding | 25 | 28 | 26 | 29 | 1.112 |
| 25799 | NM_014347,XM_00 | **ZNF324** | zinc finger protein 324 | protein_coding | 10 | 11 | 11 | 12 | 1.128 |
| 25800 | NM_001099406,NM | **SLC39A6** | solute carrier family 39 m | protein_coding | 77 | 67 | 78 | 68 | 0.873 |
| 25801 | NM_001330265,NM | **GCA** | grancalcin | protein_coding | 6 | 6 | 7 | 7 | 1.001 |
| 25802 | NM_012134 | **LMOD1** | leiomodin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25803 | NM_001252294,NM | **SPDEF** | SAM pointed domain cor | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 25804 | NM_001252129,NM | **LSM4** | LSM4 homolog, U6 smal | protein_coding | 141 | 153 | 142 | 154 | 1.085 |
| 25805 | NM_012342 | **BAMBI** | BMP and activin membra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25806 | NM_012476,XM_00 | **VAX2** | ventral anterior homeobc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25807 | NM_001329536,NM | **RHBDD3** | rhomboid domain contair | protein_coding | 35 | 43 | 36 | 44 | 1.226 |
| 25809 | NM_012263,NR_02 | **TTLL1** | tubulin tyrosine ligase lik | protein_coding | 1 | 1 | 2 | 2 | 0.822 |
| 25812 | NR_024591 | **POM121L1P** | POM121 transmembrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 25813 | NM_015380 | **SAMM50** | SAMM50 sorting and ass | protein_coding | 76 | 74 | 77 | 75 | 0.969 |
| 25814 | NM_001167621,NM | **ATXN10** | ataxin 10 | protein_coding | 81 | 82 | 82 | 83 | 1.015 |
| 25816 | NM_001077654,NM | **TNFAIP8** | TNF alpha induced prote | protein_coding | 52 | 44 | 53 | 45 | 0.852 |
| 25817 | NM_001082967,NM | **TAFA5** | TAFA chemokine like fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25818 | NM_001077491,NM | **KLK5** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25819 | NM_012118 | **NOCT** | nocturnin | protein_coding | 9 | 10 | 10 | 11 | 1.114 |
| 25820 | NM_005744 | **ARIH1** | ariadne RBR E3 ubiquitir | protein_coding | 13 | 13 | 14 | 14 | 1.008 |
| 25821 | NM_001123226,NM | **MTO1** | mitochondrial tRNA trans | protein_coding | 13 | 11 | 14 | 12 | 0.874 |
| 25822 | NM_001135004,NM | **DNAJB5** | DnaJ heat shock protein | protein_coding | 5 | 5 | 6 | 6 | 0.971 |
| 25823 | NM_012467,XM_01 | **TPSG1** | tryptase gamma 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25824 | NM_001358511,NM | **PRDX5** | peroxiredoxin 5 | protein_coding | 472 | 515 | 473 | 516 | 1.091 |
| 25825 | NM_012105,NM_13 | **BACE2** | beta-secretase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25826 | NR_004398 | **SNORD82** | small nucleolar RNA, C/I | snoRNA | 1 | 3 | 2 | 4 | 1.562 |
| 25827 | NM_001349316,NM | **FBXL2** | F-box and leucine rich re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25828 | NM_012473,XM_00 | **TXN2** | thioredoxin 2 | protein_coding | 138 | 147 | 139 | 148 | 1.059 |
| 25829 | NM_001195071,NM | **TMEM184B** | transmembrane protein 1 | protein_coding | 21 | 19 | 22 | 20 | 0.926 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 25830 | NM_014351,XM_01 | **SULT4A1** | sulfotransferase family 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25831 | NM_015382,XM_00 | **HECTD1** | HECT domain E3 ubiquit | protein_coding | 30 | 26 | 31 | 27 | 0.871 |
| 25832 | NM_015383 | **NBPF14** | NBPF member 14 | protein_coding | 7 | 6 | 8 | 7 | 0.857 |
| 25833 | NM_001244682,NM | **POU2F3** | POU class 2 homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.210 |
| 25834 | NM_001351282,NM | **MGAT4C** | MGAT4 family member C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25836 | NM_015384,NM_13 | **NIPBL** | NIPBL cohesin loading fa | protein_coding | 30 | 23 | 31 | 24 | 0.786 |
| 25837 | NM_001308053,NM | **RAB26** | RAB26, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25839 | NM_001195139,NM | **COG4** | component of oligomeric | protein_coding | 31 | 37 | 32 | 38 | 1.187 |
| 25840 | NM_014033 | **METTL7A** | methyltransferase like 7A | protein_coding | 1 | 1 | 2 | 2 | 1.057 |
| 25841 | NM_145804 | **ABTB2** | ankyrin repeat and BTB | protein_coding | 2 | 3 | 3 | 4 | 1.327 |
| 25842 | NM_014034 | **ASF1A** | anti-silencing function 1A | protein_coding | 36 | 36 | 37 | 37 | 0.981 |
| 25843 | NM_001100819,NM | **MOB4** | MOB family member 4, p | protein_coding | 71 | 66 | 72 | 67 | 0.921 |
| 25844 | NM_015388 | **YIPF3** | Yip1 domain family mem | protein_coding | 70 | 70 | 71 | 71 | 1.005 |
| 25845 | NR_024158 | **PP7080** | uncharacterized LOC258 | lncRNA | 40 | 43 | 41 | 44 | 1.091 |
| 25847 | NM_001242374,NM | **ANAPC13** | anaphase promoting con | protein_coding | 36 | 37 | 37 | 38 | 1.022 |
| 25849 | NM_015393,XM_01 | **PARM1** | prostate androgen-regul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25850 | NM_001242472,NM | **ZNF345** | zinc finger protein 345 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25851 | NM_015395,XM_00 | **TECPR1** | tectonin beta-propeller re | protein_coding | 5 | 5 | 6 | 6 | 0.984 |
| 25852 | NM_001267041,NM | **ARMC8** | armadillo repeat containi | protein_coding | 32 | 33 | 33 | 34 | 1.024 |
| 25853 | NM_015397,XM_01 | **DCAF12** | DDB1 and CUL4 associa | protein_coding | 85 | 76 | 86 | 77 | 0.898 |
| 25854 | NM_001006655,NM | **FAM149A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 25855 | NM_001024957,NM | **BRMS1** | BRMS1 transcriptional re | protein_coding | 155 | 165 | 156 | 166 | 1.066 |
| 25858 | NM_001039496 | **CATSPERZ** | catsper channel auxiliary | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25859 | NR_024617,NR_02 | **PART1** | prostate androgen-regul | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 25861 | NM_001083885,NM | **WHRN** | whirlin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25862 | NM_001286554,NM | **USP49** | ubiquitin specific peptida | protein_coding | 12 | 11 | 13 | 12 | 0.910 |
| 25864 | NM_015407 | **ABHD14A** | abhydrolase domain con | protein_coding | 1 | 2 | 2 | 3 | 1.588 |
| 25865 | NM_001079880,NM | **PRKD2** | protein kinase D2 | protein_coding | 62 | 59 | 63 | 60 | 0.957 |
| 25870 | NM_001042468,NM | **SUMF2** | sulfatase modifying factc | protein_coding | 54 | 56 | 55 | 57 | 1.029 |
| 25871 | NM_001319109,NM | **NEPRO** | nucleolus and neural prc | protein_coding | 61 | 55 | 62 | 56 | 0.897 |
| 25873 | NM_015414,NM_03 | **RPL36** | ribosomal protein L36 | protein_coding | 1,517 | 1,655 | 1,518 | 1,656 | 1.091 |
| 25874 | NM_001143674,NM | **MPC2** | mitochondrial pyruvate c | protein_coding | 53 | 57 | 54 | 58 | 1.082 |
| 25875 | NM_001243689,NM | **LETMD1** | LETM1 domain containin | protein_coding | 46 | 44 | 47 | 45 | 0.942 |
| 25876 | NM_015417 | **SPEF1** | sperm flagellar 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25878 | NM_015419 | **MXRA5** | matrix remodeling associ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25879 | NM_015420 | **DCAF13** | DDB1 and CUL4 associa | protein_coding | 195 | 181 | 196 | 182 | 0.932 |
| 25880 | NM_015421 | **TMEM186** | transmembrane protein 1 | protein_coding | 25 | 23 | 26 | 24 | 0.906 |
| 25884 | NM_001278473,NM | **CHRDL2** | chordin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25885 | NM_015425 | **POLR1A** | RNA polymerase I subun | protein_coding | 54 | 51 | 55 | 52 | 0.941 |
| 25886 | NM_001161580,NM | **POC1A** | POC1 centriolar protein A | protein_coding | 29 | 28 | 30 | 29 | 0.951 |
| 25888 | NM_001006656,NM | **ZNF473** | zinc finger protein 473 | protein_coding | 24 | 23 | 25 | 24 | 0.968 |
| 25890 | NM_001349329,NM | **ABI3BP** | ABI family member 3 bin | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 25891 | NM_001001991,NM | **PAMR1** | peptidase domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25893 | NM_015431 | **TRIM58** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25894 | NM_001129727,NM | **PLEKHG4** | pleckstrin homology and | protein_coding | 39 | 40 | 40 | 41 | 1.018 |
| 25895 | NM_015433,NM_20 | **EEF1AKMT3** | EEF1A lysine methyltran | protein_coding | 4 | 4 | 5 | 5 | 1.010 |
| 25896 | NM_001199809,NM | **INTS7** | integrator complex subur | protein_coding | 31 | 27 | 32 | 28 | 0.876 |
| 25897 | NM_001280539,NM | **RNF19A** | ring finger protein 19A, R | protein_coding | 22 | 21 | 23 | 22 | 0.965 |
| 25898 | NM_001009922,NM | **RCHY1** | ring finger and CHY zinc | protein_coding | 31 | 31 | 32 | 32 | 0.978 |
| 25900 | NM_001039670,NM | **IFFO1** | intermediate filament fan | protein_coding | 6 | 6 | 7 | 7 | 0.999 |
| 25901 | NM_001379071,NM | **CCDC28A** | coiled-coil domain contai | protein_coding | 17 | 17 | 18 | 18 | 1.001 |
| 25902 | NM_001242767,NM | **MTHFD1L** | methylenetetrahydrofolat | protein_coding | 60 | 52 | 61 | 53 | 0.869 |
| 25903 | NM_001297713,NM | **OLFML2B** | olfactomedin like 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25904 | NM_001256741,NM | **CNOT10** | CCR4-NOT transcription | protein_coding | 21 | 19 | 22 | 20 | 0.912 |
| 25906 | NM_001278485,NM | **ANAPC15** | anaphase promoting con | protein_coding | 80 | 87 | 81 | 88 | 1.081 |
| 25907 | NM_015444 | **TMEM158** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25909 | NM_001323342,NM | **AHCTF1** | AT-hook containing trans | protein_coding | 36 | 30 | 37 | 31 | 0.829 |
| 25911 | NM_001329742,NM | **DPCD** | deleted in primary ciliary | protein_coding | 12 | 11 | 13 | 12 | 0.885 |
| 25912 | NM_001098616,NM | **C1orf43** | chromosome 1 open rea | protein_coding | 257 | 268 | 258 | 269 | 1.040 |
| 25913 | NM_001042594,NM | **POT1** | protection of telomeres 1 | protein_coding | 23 | 21 | 24 | 22 | 0.929 |
| 25914 | NM_001318520,NM | **RTTN** | rotatin | protein_coding | 8 | 7 | 9 | 8 | 0.867 |
| 25915 | NM_199069,NM_19 | **NDUFAF3** | NADH:ubiquinone oxidor | protein_coding | 58 | 59 | 59 | 60 | 1.009 |
| 25917 | NM_001114092,NM | **THUMPD3** | THUMP domain containi | protein_coding | 33 | 32 | 34 | 33 | 0.954 |
| 25920 | NM_015456 | **NELFB** | negative elongation factc | protein_coding | 55 | 52 | 56 | 53 | 0.952 |
| 25921 | NM_015457,XM_01 | **ZDHHC5** | zinc finger DHHC-type pa | protein_coding | 93 | 86 | 94 | 87 | 0.924 |
| 25923 | NM_001290048,NM | **ATL3** | atlastin GTPase 3 | protein_coding | 30 | 25 | 31 | 26 | 0.843 |
| 25924 | NM_001284423,NM | **MYRIP** | myosin VIIA and Rab inte | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25925 | NM_001308225,NM | **ZNF521** | zinc finger protein 521 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25926 | NM_001303272,NM | **NOL11** | nucleolar protein 11 | protein_coding | 168 | 151 | 169 | 152 | 0.900 |
| 25927 | NM_001111101,NM | **CNRIP1** | cannabinoid receptor inte | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25928 | NM_015464 | **SOSTDC1** | sclerostin domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25929 | NM_001252156,NM | **GEMIN5** | gem nuclear organelle a | protein_coding | 77 | 72 | 78 | 73 | 0.940 |
| 25930 | NM_001304482,NM | **PTPN23** | protein tyrosine phospha | protein_coding | 11 | 11 | 12 | 12 | 0.997 |
| 25932 | NM_013943 | **CLIC4** | chloride intracellular cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25934 | NM_001329570,NM | **NIPSNAP3A** | nipsnap homolog 3A | protein_coding | 28 | 25 | 29 | 26 | 0.899 |
| 25936 | NM_001042549,NM | **NSL1** | NSL1 component of MIS | protein_coding | 8 | 8 | 9 | 9 | 1.000 |
| 25937 | NM_001168278,NM | **WWTR1** | WW domain containing t | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 25938 | NM_015473 | **HEATR5A** | HEAT repeat containing | protein_coding | 5 | 4 | 6 | 5 | 0.892 |
| 25939 | NM_001363729,NM | **SAMHD1** | SAM and HD domain cor | protein_coding | 189 | 184 | 190 | 185 | 0.974 |
| 25940 | NM_001304538,NM | **FAM98A** | family with sequence sim | protein_coding | 63 | 60 | 64 | 61 | 0.950 |
| 25941 | NM_001271949,NM | **TPGS2** | tubulin polyglutamylase | protein_coding | 69 | 68 | 70 | 69 | 0.992 |
| 25942 | NM_001145357,NM | **SIN3A** | SIN3 transcription regula | protein_coding | 46 | 44 | 47 | 45 | 0.969 |
| 25943 | NM_001009984,XM | **C20orf194** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25945 | NM_001243286,NM | **NECTIN3** | nectin cell adhesion mol | protein_coding | 10 | 7 | 11 | 8 | 0.704 |
| 25946 | NM_001130967,NM | **ZNF385A** | zinc finger protein 385A | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 25948 | NM_015483,XM_00 | **KBTBD2** | kelch repeat and BTB do | protein_coding | 18 | 14 | 19 | 15 | 0.797 |
| 25949 | NM_015484,NM_20 | **SYF2** | SYF2 pre-mRNA splicing | protein_coding | 61 | 65 | 62 | 66 | 1.065 |
| 25950 | NM_001128142,NM | **RWDD3** | RWD domain containing | protein_coding | 18 | 16 | 19 | 17 | 0.878 |
| 25953 | NM_001077399,NM | **PNKD** | PNKD metallo-beta-lacta | protein_coding | 135 | 133 | 136 | 134 | 0.989 |
| 25956 | NM_015490 | **SEC31B** | SEC31 homolog B, COP | protein_coding | 32 | 30 | 33 | 31 | 0.929 |
| 25957 | NM_001322405,NM | **PNISR** | PNN interacting serine a | protein_coding | 37 | 31 | 38 | 32 | 0.838 |
| 25959 | NM_001136191,NM | **KANK2** | KN motif and ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25960 | NM_032777,XM_01 | **ADGRA2** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.004 |
| 25961 | NM_001283014,NM | **NUDT13** | nudix hydrolase 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25962 | NM_015496,NM_18 | **VIRMA** | vir like m6A methyltransf | protein_coding | 58 | 51 | 59 | 52 | 0.874 |
| 25963 | NM_001110503,NM | **TMEM87A** | transmembrane protein 8 | protein_coding | 84 | 79 | 85 | 80 | 0.949 |
| 25966 | NM_015500,NM_19 | **C2CD2** | C2 calcium dependent d | protein_coding | 2 | 1 | 3 | 2 | 0.827 |
| 25970 | NM_001145795,NM | **SH2B1** | SH2B adaptor protein 1 | protein_coding | 20 | 23 | 21 | 24 | 1.162 |
| 25972 | NM_001330353,NM | **UNC50** | unc-50 inner nuclear me | protein_coding | 66 | 66 | 67 | 67 | 0.997 |
| 25973 | NM_152268 | **PARS2** | prolyl-tRNA synthetase 2 | protein_coding | 9 | 9 | 10 | 10 | 0.990 |
| 25974 | NM_001330540,NM | **MMACHC** | metabolism of cobalamin | protein_coding | 17 | 18 | 18 | 19 | 1.010 |
| 25975 | NM_001167890,NM | **EGFL6** | EGF like domain multiple | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 25976 | NM_001184717,NM | **TIPARP** | TCDD inducible poly(ADI | protein_coding | 11 | 10 | 12 | 11 | 0.944 |
| 25977 | NM_015509,NR_02 | **NECAP1** | NECAP endocytosis ass | protein_coding | 15 | 15 | 16 | 16 | 1.025 |
| 25978 | NM_001244644,NM | **CHMP2B** | charged multivesicular b | protein_coding | 55 | 50 | 56 | 51 | 0.911 |
| 25979 | NM_001330159,NM | **DHRS7B** | dehydrogenase/reductas | protein_coding | 7 | 7 | 8 | 8 | 0.974 |
| 25980 | NM_001271874,NM | **AAR2** | AAR2 splicing factor | protein_coding | 78 | 78 | 79 | 79 | 1.007 |
| 25981 | NM_015512,XM_01 | **DNAH1** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 25983 | NM_001042635,NM | **NGDN** | neuroguidin | protein_coding | 71 | 72 | 72 | 73 | 1.012 |
| 25984 | NM_001282433,NM | **KRT23** | keratin 23 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25987 | NM_001258210,NM | **TSKU** | tsukushi, small leucine ri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 25988 | NM_001243259,NM | **HINFP** | histone H4 transcription | protein_coding | 15 | 18 | 16 | 19 | 1.168 |
| 25989 | NM_001099436,NM | **ULK3** | unc-51 like kinase 3 | protein_coding | 31 | 30 | 32 | 31 | 0.982 |
| 25992 | NM_001080437,XM | **SNED1** | sushi, nidogen and EGF | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 25994 | NM_001099668,NM | **HIGD1A** | HIG1 hypoxia inducible d | protein_coding | 192 | 191 | 193 | 192 | 0.998 |
| 25996 | NM_015523 | **REXO2** | RNA exonuclease 2 | protein_coding | 118 | 125 | 119 | 126 | 1.056 |
| 25998 | NM_001300906,NM | **IBTK** | inhibitor of Bruton tyrosir | protein_coding | 38 | 32 | 39 | 33 | 0.847 |
| 25999 | NM_001199570,NM | **CLIP3** | CAP-Gly domain contain | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 26000 | NM_015527,XM_01 | **TBC1D10B** | TBC1 domain family mer | protein_coding | 69 | 69 | 70 | 70 | 1.003 |
| 26001 | NM_001320356,NM | **RNF167** | ring finger protein 167 | protein_coding | 61 | 63 | 62 | 64 | 1.041 |
| 26002 | NM_015529,XM_01 | **MOXD1** | monooxygenase DBH like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26003 | NM_001201428,NM | **GORASP2** | golgi reassembly stackin | protein_coding | 167 | 167 | 168 | 168 | 0.997 |
| 26005 | NM_001286577,NM | **C2CD3** | C2 domain containing 3 | protein_coding | 22 | 20 | 23 | 21 | 0.902 |
| 26007 | NM_001351976,NM | **TKFC** | triokinase and FMN cycla | protein_coding | 10 | 13 | 11 | 14 | 1.328 |
| 26009 | NM_001308237,NM | **ZZZ3** | zinc finger ZZ-type conta | protein_coding | 24 | 21 | 25 | 22 | 0.877 |
| 26010 | NM_001100422,NM | **SPATS2L** | spermatogenesis associa | protein_coding | 12 | 13 | 13 | 14 | 1.084 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 26011 | NM_001098816,XM_ | **TENM4** | teneurin transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26012 | NM_001130969,NM | **NSMF** | NMDA receptor synaptor | protein_coding | 20 | 20 | 21 | 21 | 1.005 |
| 26013 | NM_001377303,NM | **L3MBTL1** | L3MBTL histone methyl-l | protein_coding | 1 | 1 | 2 | 2 | 0.832 |
| 26015 | NM_015540,XM_00 | **RPAP1** | RNA polymerase II assoc | protein_coding | 30 | 31 | 31 | 32 | 1.014 |
| 26017 | NM_014077,XM_01 | **FAM32A** | family with sequence sir | protein_coding | 157 | 158 | 158 | 159 | 1.006 |
| 26018 | NM_001377344,NM | **LRIG1** | leucine rich repeats and | protein_coding | 35 | 34 | 36 | 35 | 0.971 |
| 26019 | NM_015542,NM_08 | **UPF2** | UPF2 regulator of nonse | protein_coding | 15 | 13 | 16 | 14 | 0.847 |
| 26020 | NM_001329226,NM | **LRP10** | LDL receptor related pro | protein_coding | 17 | 15 | 18 | 16 | 0.886 |
| 26022 | NM_001033504,NM | **TMEM98** | transmembrane protein 9 | protein_coding | 11 | 9 | 12 | 10 | 0.810 |
| 26024 | NM_015545 | **PTCD1** | pentatricopeptide repeat | protein_coding | 20 | 17 | 21 | 18 | 0.860 |
| 26025 | NM_003735,NM_03 | **PCDHGA12** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 26027 | NM_015547,NM_14 | **ACOT11** | acyl-CoA thioesterase 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26030 | NM_001308147,XM | **PLEKHG3** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26031 | NM_015550,NM_14 | **OSBPL3** | oxysterol binding protein | protein_coding | 35 | 28 | 36 | 29 | 0.826 |
| 26032 | NM_015551,XM_00 | **SUSD5** | sushi domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26033 | NM_001276282,NM | **ATRNL1** | attractin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26034 | NM_001130699,NM | **IPCEF1** | interaction protein for cyt | protein_coding | 38 | 31 | 39 | 32 | 0.828 |
| 26035 | NM_001324091,NM | **GLCE** | glucuronic acid epimeras | protein_coding | 10 | 9 | 11 | 10 | 0.926 |
| 26036 | NM_001031623,NM | **ZNF451** | zinc finger protein 451 | protein_coding | 22 | 20 | 23 | 21 | 0.890 |
| 26037 | NM_001284245,NM | **SIPA1L1** | signal induced proliferati | protein_coding | 14 | 12 | 15 | 13 | 0.894 |
| 26038 | NM_015557 | **CHD5** | chromodomain helicase l | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 26039 | NM_001301778,NM | **SS18L1** | SS18L1 subunit of BAF c | protein_coding | 18 | 16 | 19 | 17 | 0.893 |
| 26040 | NM_001130110,NM | **SETBP1** | SET binding protein 1 | protein_coding | 5 | 5 | 6 | 6 | 0.944 |
| 26043 | NM_015562,XM_01 | **UBXN7** | UBX domain protein 7 | protein_coding | 15 | 13 | 16 | 14 | 0.858 |
| 26045 | NM_015564 | **LRRTM2** | leucine rich repeat transı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26046 | NM_001320766,NM | **LTN1** | listerin E3 ubiquitin prote | protein_coding | 27 | 21 | 28 | 22 | 0.794 |
| 26047 | NM_014141,XM_01 | **CNTNAP2** | contactin associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26048 | NM_001303450,NM | **ZNF500** | zinc finger protein 500 | protein_coding | 3 | 2 | 4 | 3 | 0.939 |
| 26049 | NM_001376049,NM | **FAM169A** | family with sequence sir | protein_coding | 6 | 5 | 7 | 6 | 0.797 |
| 26050 | NM_015567,XM_00 | **SLITRK5** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26051 | NM_001172735,NM | **PPP1R16B** | protein phosphatase 1 re | protein_coding | 293 | 216 | 294 | 217 | 0.739 |
| 26052 | NM_001136127,NM | **DNM3** | dynamin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.925 |
| 26053 | NM_001127231,NM | **AUTS2** | activator of transcription | protein_coding | 1 | 1 | 2 | 2 | 0.936 |
| 26054 | NM_001100409,NM | **SENP6** | SUMO specific peptidase | protein_coding | 41 | 36 | 42 | 37 | 0.900 |
| 26056 | NM_001371272,NM | **RAB11FIP5** | RAB11 family interacting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26057 | NM_001286771,NM | **ANKRD17** | ankyrin repeat domain 1 | protein_coding | 54 | 47 | 55 | 48 | 0.875 |
| 26058 | NM_001103146,NM | **GIGYF2** | GRB10 interacting GYF p | protein_coding | 53 | 47 | 54 | 48 | 0.895 |
| 26059 | NM_015576,NR_13 | **ERC2** | ELKS/RAB6-interacting/C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26060 | NM_012096,XM_01 | **APPL1** | adaptor protein, phosph | protein_coding | 30 | 26 | 31 | 27 | 0.853 |
| 26061 | NM_001284413,NM | **HACL1** | 2-hydroxyacyl-CoA lyase | protein_coding | 17 | 16 | 18 | 17 | 0.955 |
| 26062 | NR_002731 | **HYAL6P** | hyaluronidase 6, pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26063 | NM_020664 | **DECR2** | 2,4-dienoyl-CoA reducta | protein_coding | 7 | 10 | 8 | 11 | 1.348 |
| 26064 | NM_001145520,NM | **RAI14** | retinoic acid induced 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26065 | NM_001114093,NM | **LSM14A** | LSM14A mRNA processi | protein_coding | 216 | 202 | 217 | 203 | 0.936 |
| 26070 | NR_026882 | **MYRF-AS1** | MYRF antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.058 |
| 26071 | NM_001078172,NM | **RTL8A** | retrotransposon Gag like | protein_coding | 25 | 26 | 26 | 27 | 1.035 |
| 26073 | NM_001290145,NM | **POLDIP2** | DNA polymerase delta in | protein_coding | 148 | 157 | 149 | 158 | 1.055 |
| 26074 | NM_001167816,NM | **CFAP61** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 26077 | NR_026889 | **DKFZP434H168** | uncharacterized LOC260 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26080 | NR_027278 | **FAM230C** | family with sequence sir | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26082 | NR_026771 | **LINC02249** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26083 | XM_011524596 | **TBC1D29P** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26084 | NM_001251962,NM | **ARHGEF26** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26085 | NM_001348177,NM | **KLK13** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26086 | NM_001145638,NM | **GPSM1** | G protein signaling modu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26088 | NM_001001560,NM | **GGA1** | golgi associated, gamma | protein_coding | 28 | 31 | 29 | 32 | 1.097 |
| 26090 | NM_001042472,NM | **ABHD12** | abhydrolase domain con | protein_coding | 36 | 41 | 37 | 42 | 1.138 |
| 26091 | NM_001278185,NM | **HERC4** | HECT and RLD domain c | protein_coding | 24 | 19 | 25 | 20 | 0.803 |
| 26092 | NM_001267578,NM | **TOR1AIP1** | torsin 1A interacting prot | protein_coding | 78 | 69 | 79 | 70 | 0.880 |
| 26093 | NM_015603,XM_01 | **CCDC9** | coiled-coil domain contai | protein_coding | 11 | 12 | 12 | 13 | 1.076 |
| 26094 | NM_001163508,NM | **DCAF4** | DDB1 and CUL4 associa | protein_coding | 24 | 22 | 25 | 23 | 0.948 |
| 26095 | NM_001042357,NM | **PTPN20** | protein tyrosine phospha | protein_coding | 18 | 18 | 19 | 19 | 0.969 |
| 26097 | NM_001206612,NM | **CHTOP** | chromatin target of PRM | protein_coding | 122 | 121 | 123 | 122 | 0.994 |
| 26098 | NM_001202438,NM | **EDRF1** | erythroid differentiation r | protein_coding | 19 | 17 | 20 | 18 | 0.893 |
| 26099 | NM_001114600,NM | **SZRD1** | SUZ RNA binding domai | protein_coding | 171 | 175 | 172 | 176 | 1.021 |
| 26100 | NM_001033518,NM | **WIPI2** | WD repeat domain, phos | protein_coding | 19 | 21 | 20 | 22 | 1.055 |
| 26102 | NR_026964 | **DKFZP434A062** | uncharacterized LOC261 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26103 | NM_015613,XM_01 | **LRIT1** | leucine rich repeat, Ig-lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26108 | NM_001330326,NM | **PYGO1** | pygopus family PHD fing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26112 | NM_015621 | **CCDC69** | coiled-coil domain contai | protein_coding | 62 | 55 | 63 | 56 | 0.898 |
| 26115 | NM_025185,XM_00 | **TANC2** | tetratricopeptide repeat, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26118 | NM_001348350,NM | **WSB1** | WD repeat and SOCS bo | protein_coding | 38 | 35 | 39 | 36 | 0.939 |
| 26119 | NM_015627,XM_00 | **LDLRAP1** | low density lipoprotein re | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 26121 | NM_015629,XM_00 | **PRPF31** | pre-mRNA processing fa | protein_coding | 141 | 153 | 142 | 154 | 1.082 |
| 26122 | NM_015630,XM_01 | **EPC2** | enhancer of polycomb ho | protein_coding | 21 | 19 | 22 | 20 | 0.930 |
| 26123 | NM_001143973,NM | **TCTN3** | tectonic family member 3 | protein_coding | 36 | 37 | 37 | 38 | 1.023 |
| 26127 | NM_001171887,NM | **FGFR1OP2** | FGFR1 oncogene partne | protein_coding | 78 | 67 | 79 | 68 | 0.860 |
| 26128 | NM_015634,XM_01 | **KIFBP** | kinesin family binding pr | protein_coding | 20 | 20 | 21 | 21 | 0.984 |
| 26130 | NM_001282679,NM | **GAPVD1** | GTPase activating protei | protein_coding | 23 | 20 | 24 | 21 | 0.863 |
| 26133 | NM_015638,NM_19 | **TRPC4AP** | transient receptor potent | protein_coding | 69 | 65 | 70 | 66 | 0.948 |
| 26134 | NR_104269 | **RALGAPA1P1** | RALGAPA1 pseudogene | transcribed_pseu | 1 | 1 | 2 | 2 | 0.916 |
| 26135 | NM_001018067,NM | **SERBP1** | SERPINE1 mRNA bindin | protein_coding | 417 | 382 | 418 | 383 | 0.915 |
| 26136 | NM_015641,NM_15 | **TES** | testin LIM domain proteir | protein_coding | 296 | 246 | 297 | 247 | 0.834 |
| 26137 | NM_001164342,NM | **ZBTB20** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 26138 | NR_026772 | **LINC00588** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.807 |
| 26140 | NM_001025930,NM | **TTLL3** | tubulin tyrosine ligase lik | protein_coding | 9 | 10 | 10 | 11 | 1.076 |
| 26145 | NM_015649 | **IRF2BP1** | interferon regulatory fact | protein_coding | 22 | 24 | 23 | 25 | 1.079 |
| 26146 | NM_001139490,NM | **TRAF3IP1** | TRAF3 interacting protei | protein_coding | 10 | 9 | 11 | 10 | 0.954 |
| 26147 | NM_001009936,NM | **PHF19** | PHD finger protein 19 | protein_coding | 201 | 219 | 202 | 220 | 1.085 |
| 26149 | NM_001317916,NM | **ZNF658** | zinc finger protein 658 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26150 | NM_015653,XM_00 | **RIBC2** | RIB43A domain with coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26151 | NM_001305077,NM | **NAT9** | N-acetyltransferase 9 (pu | protein_coding | 33 | 29 | 34 | 30 | 0.889 |
| 26152 | NM_001290261,NM | **ZNF337** | zinc finger protein 337 | protein_coding | 6 | 7 | 7 | 8 | 1.049 |
| 26153 | NM_015656,XM_01 | **KIF26A** | kinesin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.100 |
| 26154 | NM_015657,NM_17 | **ABCA12** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26155 | NM_015658 | **NOC2L** | NOC2 like nucleolar ass | protein_coding | 272 | 281 | 273 | 282 | 1.032 |
| 26156 | NM_015659 | **RSL1D1** | ribosomal L1 domain cor | protein_coding | 167 | 153 | 168 | 154 | 0.915 |
| 26157 | NM_015660 | **GIMAP2** | GTPase, IMAP family me | protein_coding | 83 | 85 | 84 | 86 | 1.029 |
| 26160 | NM_015662,XM_00 | **IFT172** | intraflagellar transport 17 | protein_coding | 2 | 2 | 3 | 3 | 1.096 |
| 26164 | NM_015666,XM_00 | **MTG2** | mitochondrial ribosome a | protein_coding | 45 | 44 | 46 | 45 | 0.984 |
| 26165 | NM_015667 | **SPATA31A7** | SPATA31 subfamily A m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26166 | NM_001286692,NM | **RGS22** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26167 | NM_015669 | **PCDHB5** | protocadherin beta 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26168 | NM_015670 | **SENP3** | SUMO specific peptidase | protein_coding | 83 | 83 | 84 | 84 | 1.001 |
| 26173 | NM_001080453,XM | **INTS1** | integrator complex subu | protein_coding | 36 | 35 | 37 | 36 | 0.977 |
| 26175 | NM_001098621,NM | **TMEM251** | transmembrane protein 2 | protein_coding | 14 | 14 | 15 | 15 | 0.996 |
| 26184 | NR_002169 | **OR1F2P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26188 | NM_012353 | **OR1C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26189 | NM_012352 | **OR1A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26190 | NM_001375888,NM | **FBXW2** | F-box and WD repeat do | protein_coding | 40 | 40 | 41 | 41 | 1.015 |
| 26191 | NM_001193431,NM | **PTPN22** | protein tyrosine phospha | protein_coding | 120 | 103 | 121 | 104 | 0.860 |
| 26205 | NM_012384,XM_00 | **GMEB2** | glucocorticoid modulator | protein_coding | 17 | 18 | 18 | 19 | 1.013 |
| 26206 | NM_001039592,NM | **SPAG8** | sperm associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.198 |
| 26207 | NM_012417,NM_18 | **PITPNC1** | phosphatidylinositol tran | protein_coding | 23 | 22 | 24 | 23 | 0.983 |
| 26211 | NM_012369,XM_01 | **OR2F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26212 | NM_012367 | **OR2B6** | olfactory receptor family | protein_coding | 1 | 1 | 2 | 2 | 0.968 |
| 26219 | NM_001004452 | **OR1J4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26220 | NR_002733,NR_02 | **DGCR5** | DiGeorge syndrome criti | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26223 | NR_152420,NR_15 | **FBXL21P** | F-box and leucine rich re | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26224 | NM_012158,XM_00 | **FBXL3** | F-box and leucine rich re | protein_coding | 29 | 24 | 30 | 25 | 0.831 |
| 26225 | NM_001037174,NM | **ARL5A** | ADP ribosylation factor li | protein_coding | 72 | 57 | 73 | 58 | 0.796 |
| 26226 | NR_033408 | **FBXW4P1** | F-box and WD repeat do | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26227 | NM_006623,XM_01 | **PHGDH** | phosphoglycerate dehyd | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26228 | NM_001317769,NM | **STAP1** | signal transducing adapt | protein_coding | 19 | 14 | 20 | 15 | 0.745 |
| 26229 | NM_001288721,NM | **B3GAT3** | beta-1,3-glucuronyltrans | protein_coding | 85 | 84 | 86 | 85 | 0.977 |
| 26230 | NM_001010927,NM | **TIAM2** | TIAM Rac1 associated G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 26231 | NM_001004055,NM | **LRRC29** | leucine rich repeat conta | protein_coding | 0 | 1 | 1 | 2 | 1.259 |
| 26232 | NM_012168 | **FBXO2** | F-box protein 2 | protein_coding | 8 | 8 | 9 | 9 | 1.014 |
| 26233 | NM_012162,NM_02 | **FBXL6** | F-box and leucine rich re | protein_coding | 7 | 10 | 8 | 11 | 1.295 |
| 26234 | NM_001193534,NM | **FBXL5** | F-box and leucine rich re | protein_coding | 31 | 30 | 32 | 31 | 0.974 |
| 26235 | NM_001278716,NM | **FBXL4** | F-box and leucine rich re | protein_coding | 2 | 1 | 3 | 2 | 0.966 |
| 26238 | NR_026773 | **LINC01558** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26239 | NM_014357 | **LCE2B** | late cornified envelope 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26240 | NM_012135,XM_01 | **FAM50B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26245 | NM_017504 | **OR2M4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26246 | NM_001004686,XM | **OR2L2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26247 | NR_002145 | **OR2L1P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26248 | NM_205859 | **OR2K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26249 | NM_001257194,NM | **KLHL3** | kelch like family member | protein_coding | 1 | 1 | 2 | 2 | 0.953 |
| 26251 | NM_012283,XM_01 | **KCNG2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26253 | NM_014358,XM_01 | **CLEC4E** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26254 | NM_014359,XM_01 | **OPTC** | opticin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26255 | NR_002734 | **PTTG3P** | pituitary tumor-transform | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26256 | NM_001308231,NM | **CABYR** | calcium binding tyrosine | protein_coding | 1 | 1 | 2 | 2 | 0.850 |
| 26257 | NM_014360 | **NKX2-8** | NK2 homeobox 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26258 | NM_001311255,NM | **BLOC1S6** | biogenesis of lysosomal | protein_coding | 74 | 65 | 75 | 66 | 0.880 |
| 26259 | NM_012174,NM_15 | **FBXW8** | F-box and WD repeat do | protein_coding | 4 | 3 | 5 | 4 | 0.786 |
| 26260 | NM_012173,NM_18 | **FBXO25** | F-box protein 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26261 | NM_001163499,NM | **FBXO24** | F-box protein 24 | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 26262 | NM_001006616,NM | **TSPAN17** | tetraspanin 17 | protein_coding | 52 | 58 | 53 | 59 | 1.108 |
| 26263 | NM_012170,NM_14 | **FBXO22** | F-box protein 22 | protein_coding | 22 | 17 | 23 | 18 | 0.792 |
| 26266 | NM_001318192,NM | **SLC13A4** | solute carrier family 13 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26267 | NM_012166,XM_00 | **FBXO10** | F-box protein 10 | protein_coding | 9 | 10 | 10 | 11 | 1.032 |
| 26268 | NM_012347,NM_03 | **FBXO9** | F-box protein 9 | protein_coding | 38 | 36 | 39 | 37 | 0.944 |
| 26269 | NM_012180,XM_01 | **FBXO8** | F-box protein 8 | protein_coding | 10 | 10 | 11 | 11 | 0.918 |
| 26270 | NM_018438,XM_00 | **FBXO6** | F-box protein 6 | protein_coding | 130 | 121 | 131 | 122 | 0.935 |
| 26271 | NM_001142522,NM | **FBXO5** | F-box protein 5 | protein_coding | 71 | 69 | 72 | 70 | 0.972 |
| 26272 | NM_001297437,NM | **FBXO4** | F-box protein 4 | protein_coding | 25 | 23 | 26 | 24 | 0.946 |
| 26273 | NM_012175,NM_03 | **FBXO3** | F-box protein 3 | protein_coding | 7 | 7 | 8 | 8 | 1.085 |
| 26275 | NM_014362,NM_19 | **HIBCH** | 3-hydroxyisobutyryl-CoA | protein_coding | 26 | 27 | 27 | 28 | 1.042 |
| 26276 | NM_001289148,NM | **VPS33B** | VPS33B late endosome / | protein_coding | 14 | 14 | 15 | 15 | 1.000 |
| 26277 | NM_001099274,NM | **TINF2** | TERF1 interacting nuclea | protein_coding | 46 | 50 | 47 | 51 | 1.094 |
| 26278 | NM_001278055,NM | **SACS** | sacsin molecular chaper | protein_coding | 38 | 28 | 39 | 29 | 0.759 |
| 26279 | NM_001271814,NM | **PLA2G2D** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26280 | NM_017416,XM_01 | **IL1RAPL2** | interleukin 1 receptor acc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26281 | NM_019851 | **FGF20** | fibroblast growth factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26284 | NM_001317985,NM | **ERAL1** | Era like 12S mitochondri | protein_coding | 99 | 109 | 100 | 110 | 1.094 |
| 26285 | NM_012131 | **CLDN17** | claudin 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26286 | NM_001142293,NM | **ARFGAP3** | ADP ribosylation factor G | protein_coding | 23 | 22 | 24 | 23 | 0.975 |
| 26287 | NM_001129981,NM | **ANKRD2** | ankyrin repeat domain 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26289 | NM_012093,NM_17 | **AK5** | adenylate kinase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 26290 | NM_017417 | **GALNT8** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 0.925 |
| 26291 | NM_019113 | **FGF21** | fibroblast growth factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26292 | NM_012333,NR_03 | **MYCBP** | MYC binding protein | protein_coding | 54 | 49 | 55 | 50 | 0.918 |
| 26297 | NM_012139,NR_10 | **SERGEF** | secretion regulating guar | protein_coding | 15 | 12 | 16 | 13 | 0.781 |
| 26298 | NM_001206615,NM | **EHF** | ETS homologous factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26301 | NM_001282629,NM | **GBGT1** | globoside alpha-1,3-N-ac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26330 | NM_014364 | **GAPDHS** | glyceraldehyde-3-phospl | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 26333 | NM_030901 | **OR7A17** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26338 | NM_001004739 | **OR5L2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26339 | NM_001004736 | **OR5K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26341 | NM_001005338 | **OR5H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26343 | NR_027711 | **OR5E1P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26353 | NM_014365 | **HSPB8** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26354 | NM_014366,NM_20 | **GNL3** | G protein nucleolar 3 | protein_coding | 197 | 176 | 198 | 177 | 0.891 |
| 26355 | NM_014367 | **FAM162A** | family with sequence sim | protein_coding | 60 | 60 | 61 | 61 | 1.003 |
| 26468 | NM_001242333,NM | **LHX6** | LIM homeobox 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26469 | NM_001142370,NM | **PTPN18** | protein tyrosine phospha | protein_coding | 48 | 50 | 49 | 51 | 1.047 |
| 26470 | NM_001114099,NM | **SEZ6L2** | seizure related 6 homolo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26471 | NM_001042483,NM | **NUPR1** | nuclear protein 1, transcı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26472 | NM_138689 | **PPP1R14B** | protein phosphatase 1 re | protein_coding | 190 | 200 | 191 | 201 | 1.058 |
| 26476 | NM_001363557,NM | **OR10J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26492 | NM_001291438 | **OR8G2P** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26493 | NM_012378 | **OR8B8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26494 | NM_001002905 | **OR8G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26496 | NM_001003745 | **OR10A3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26497 | NM_001355213 | **OR10D3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26499 | NM_016445 | **PLEK2** | pleckstrin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26502 | NM_001038618,NM | **NARF** | nuclear prelamin A recog | protein_coding | 23 | 20 | 24 | 21 | 0.863 |
| 26503 | NM_001382629,NM | **SLC17A5** | solute carrier family 17 m | protein_coding | 2 | 1 | 3 | 2 | 0.764 |
| 26504 | NM_020184,XM_00 | **CNNM4** | cyclin and CBS domain d | protein_coding | 6 | 6 | 7 | 7 | 1.018 |
| 26505 | NM_017623,NM_19 | **CNNM3** | cyclin and CBS domain d | protein_coding | 14 | 14 | 15 | 15 | 1.034 |
| 26507 | NM_001345887,NM | **CNNM1** | cyclin and CBS domain d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26508 | NM_014571,XM_00 | **HEYL** | hes related family bHLH | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26509 | NM_013451,NM_13 | **MYOF** | myoferlin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26511 | NM_012110,XM_00 | **CHIC2** | cysteine rich hydrophobi | protein_coding | 5 | 4 | 6 | 5 | 0.882 |
| 26512 | NM_001039937,NM | **INTS6** | integrator complex subur | protein_coding | 31 | 31 | 32 | 32 | 0.999 |
| 26513 | gene-RPL34P2 | **RPL34P2** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.149 |
| 26514 | gene-RPL34P1 | **RPL34P1** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26515 | NM_012192 | **TIMM10B** | translocase of inner mito | protein_coding | 55 | 51 | 56 | 52 | 0.929 |
| 26517 | NM_012458 | **TIMM13** | translocase of inner mito | protein_coding | 138 | 139 | 139 | 140 | 1.008 |
| 26519 | NM_012456,XM_02 | **TIMM10** | translocase of inner mito | protein_coding | 279 | 294 | 280 | 295 | 1.054 |
| 26520 | NM_001304485,NM | **TIMM9** | translocase of inner mito | protein_coding | 47 | 40 | 48 | 41 | 0.851 |
| 26521 | NM_012459,NR_02 | **TIMM8B** | translocase of inner mito | protein_coding | 140 | 152 | 141 | 153 | 1.089 |
| 26523 | NM_001317122,NM | **AGO1** | argonaute RISC compon | protein_coding | 14 | 13 | 15 | 14 | 0.925 |
| 26524 | NM_014572,XM_00 | **LATS2** | large tumor suppressor k | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26525 | NM_012275,NM_17 | **IL36RN** | interleukin 36 receptor a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26526 | NM_001282509,NM | **TSPAN16** | tetraspanin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26528 | NM_001352033,NM | **DAZAP1** | DAZ associated protein 1 | protein_coding | 297 | 299 | 298 | 300 | 1.008 |
| 26529 | NM_013936 | **OR12D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26530 | NM_001348208,NR | **OR12D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26531 | NM_013937 | **OR11A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26532 | NM_013938 | **OR10H3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26533 | NM_001005465 | **OR10G3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26534 | NM_001005466 | **OR10G2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26538 | NM_013939 | **OR10H2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26539 | NM_013940,XM_01 | **OR10H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26540 | gene-OR10G1P | **OR10G1P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26548 | NM_001303277,NM | **ITGB1BP2** | integrin subunit beta 1 bi | protein_coding | 1 | 1 | 2 | 2 | 0.958 |
| 26574 | NM_012138,XM_01 | **AATF** | apoptosis antagonizing t | protein_coding | 205 | 203 | 206 | 204 | 0.990 |
| 26575 | NM_012419,XM_01 | **RGS17** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 26576 | NM_001170760,NM | **SRPK3** | SRSF protein kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26577 | NM_013363 | **PCOLCE2** | procollagen C-endopepti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26578 | NM_012383,XM_00 | **OSTF1** | osteoclast stimulating fa | protein_coding | 143 | 139 | 144 | 140 | 0.971 |
| 26579 | NM_001293291,NM | **MYEOV** | myeloma overexpressed | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 26580 | NM_001122955,NM | **BSCL2** | BSCL2 lipid droplet biog | protein_coding | 31 | 29 | 32 | 30 | 0.941 |
| 26583 | gene-DUX4L8 | **DUX4L8** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26585 | NM_001191322,NM | **GREM1** | gremlin 1, DAN family BM | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26586 | NM_001098525,NM | **CKAP2** | cytoskeleton associated | protein_coding | 110 | 91 | 111 | 92 | 0.832 |
| 26589 | NM_022163 | **MRPL46** | mitochondrial ribosomal | protein_coding | 90 | 100 | 91 | 101 | 1.110 |
| 26595 | NM_001005468,XM | **OR8B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26608 | NM_001362660,NM | **TBL2** | transducin beta like 2 | protein_coding | 19 | 17 | 20 | 18 | 0.915 |
| 26609 | NM_013452,XM_01 | **VCX** | variable charge X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26610 | NM_001288725,NM | **ELP4** | elongator acetyltransfera | protein_coding | 7 | 7 | 8 | 8 | 0.977 |
| 26628 | NR_120438,NR_12 | **OR7E47P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 26648 | NM_001079935 | **OR7E24** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26658 | NM_012377 | **OR7C2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26659 | NM_001370480,NM | **OR7A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26664 | NM_001370485,NM | **OR7C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26682 | NM_001004195 | **OR4F4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26683 | NM_001005224,XM | **OR4F3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 26685 | gene-OR4F1P | **OR4F1P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 26686 | NM_001001912 | **OR4E2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26687 | NM_001317107 | **OR4E1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26689 | NM_012374 | **OR4D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26692 | NM_030903 | **OR2W1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26693 | NM_001258283 | **OR2V1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26696 | NM_030904 | **OR2T1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26707 | NM_030905 | **OR2J2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26716 | NM_001318014,NM | **OR2H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26735 | NM_001005234 | **OR1L3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26737 | NM_001005236 | **OR1L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26740 | NM_054107,XM_02 | **OR1J2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26747 | NM_012345,XR_94 | **NUFIP1** | nuclear FMR1 interacting | protein_coding | 27 | 24 | 28 | 25 | 0.906 |
| 26750 | NM_001136138,NM | **RPS6KC1** | ribosomal protein S6 kina | protein_coding | 9 | 8 | 10 | 9 | 0.905 |
| 26751 | NM_001159597,NM | **SH3YL1** | SH3 and SYLF domain c | protein_coding | 7 | 6 | 8 | 7 | 0.904 |
| 26762 | NM_001173393,NM | **HAVCR1** | hepatitis A virus cellular | protein_coding | 0 | 0 | 1 | 1 | 1.114 |
| 26765 | NR_002433 | **SNORD12C** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.078 |
| 26766 | NR_004385 | **RNU105C** | RNA, U105C small nucle | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26767 | NR_004386 | **RNU105B** | RNA, U105B small nucle | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26768 | NR_004404 | **SNORA73B** | small nucleolar RNA, H/ | snoRNA | 6 | 7 | 7 | 8 | 1.116 |
| 26769 | NR_003938 | **SNORD81** | small nucleolar RNA, C/I | snoRNA | 58 | 49 | 59 | 50 | 0.854 |
| 26770 | NR_003939 | **SNORD79** | small nucleolar RNA, C/I | snoRNA | 32 | 31 | 33 | 32 | 0.974 |
| 26771 | NR_002574 | **SNORD102** | small nucleolar RNA, C/I | snoRNA | 10 | 9 | 11 | 10 | 0.883 |
| 26772 | NR_000009 | **SNORD4B** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.527 |
| 26773 | NR_000010 | **SNORD4A** | small nucleolar RNA, C/I | snoRNA | 12 | 12 | 13 | 13 | 1.034 |
| 26774 | NR_003940 | **SNORD80** | small nucleolar RNA, C/I | snoRNA | 73 | 76 | 74 | 77 | 1.042 |
| 26775 | NR_002581 | **SNORA72** | small nucleolar RNA, H/ | snoRNA | 4 | 4 | 5 | 5 | 1.042 |
| 26776 | NR_002910 | **SNORA71B** | small nucleolar RNA, H/ | snoRNA | 7 | 7 | 8 | 8 | 1.019 |
| 26777 | NR_002911 | **SNORA71A** | small nucleolar RNA, H/ | snoRNA | 8 | 6 | 9 | 7 | 0.751 |
| 26778 | NR_000011 | **SNORA70** | small nucleolar RNA, H/ | snoRNA | 24 | 30 | 25 | 31 | 1.201 |
| 26779 | NR_002584 | **SNORA69** | small nucleolar RNA, H/ | snoRNA | 1 | 4 | 2 | 5 | 2.302 |
| 26780 | NR_000012 | **SNORA68** | small nucleolar RNA, H/ | snoRNA | 5 | 4 | 6 | 5 | 0.857 |
| 26781 | NR_002912 | **SNORA67** | small nucleolar RNA, H/ | snoRNA | 44 | 48 | 45 | 49 | 1.068 |
| 26782 | NR_002444 | **SNORA66** | small nucleolar RNA, H/ | snoRNA | 2 | 3 | 3 | 4 | 1.135 |
| 26783 | NR_002449 | **SNORA65** | small nucleolar RNA, H/ | snoRNA | 3 | 3 | 4 | 4 | 1.169 |
| 26784 | NR_002326 | **SNORA64** | small nucleolar RNA, H/ | snoRNA | 24 | 23 | 25 | 24 | 0.945 |
| 26785 | NR_002913 | **SNORD63** | small nucleolar RNA, C/I | snoRNA | 4 | 5 | 5 | 6 | 1.055 |
| 26786 | NR_002914 | **SNORD62A** | small nucleolar RNA, C/I | snoRNA | 2 | 4 | 3 | 5 | 1.622 |
| 26787 | NR_002735 | **SNORD61** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26788 | NR_002736 | **SNORD60** | small nucleolar RNA, C/I | snoRNA | 6 | 8 | 7 | 9 | 1.233 |
| 26789 | NR_002737 | **SNORD59A** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.110 |
| 26790 | NR_002572 | **SNORD58B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.003 |
| 26791 | NR_002571 | **SNORD58A** | small nucleolar RNA, C/I | snoRNA | 16 | 16 | 17 | 17 | 0.990 |
| 26792 | NR_002738 | **SNORD57** | small nucleolar RNA, C/I | snoRNA | 24 | 23 | 25 | 24 | 0.952 |
| 26793 | NR_002739 | **SNORD56** | small nucleolar RNA, C/I | snoRNA | 12 | 18 | 13 | 19 | 1.450 |
| 26795 | NR_002437 | **SNORD54** | small nucleolar RNA, C/I | snoRNA | 4 | 7 | 5 | 8 | 1.693 |
| 26796 | NR_002741 | **SNORD53** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 1.186 |
| 26797 | NR_002742 | **SNORD52** | small nucleolar RNA, C/I | snoRNA | 14 | 12 | 15 | 13 | 0.872 |
| 26798 | NR_002589 | **SNORD51** | small nucleolar RNA, C/I | snoRNA | 5 | 4 | 6 | 5 | 0.770 |
| 26799 | NR_002743 | **SNORD50A** | small nucleolar RNA, C/I | snoRNA | 4 | 3 | 5 | 4 | 0.717 |
| 26800 | NR_002744 | **SNORD49A** | small nucleolar RNA, C/I | snoRNA | 10 | 9 | 11 | 10 | 0.902 |
| 26801 | NR_002745 | **SNORD48** | small nucleolar RNA, C/I | snoRNA | 5 | 5 | 6 | 6 | 0.948 |
| 26802 | NR_002746 | **SNORD47** | small nucleolar RNA, C/I | snoRNA | 81 | 86 | 82 | 87 | 1.058 |
| 26804 | NR_002748 | **SNORD45B** | small nucleolar RNA, C/I | snoRNA | 7 | 4 | 8 | 5 | 0.615 |
| 26805 | NR_002749 | **SNORD45A** | small nucleolar RNA, C/I | snoRNA | 6 | 4 | 7 | 5 | 0.759 |
| 26806 | NR_002750 | **SNORD44** | small nucleolar RNA, C/I | snoRNA | 22 | 27 | 23 | 28 | 1.193 |
| 26807 | NR_002439 | **SNORD43** | small nucleolar RNA, C/I | snoRNA | 5 | 2 | 6 | 3 | 0.599 |
| 26808 | NR_000013 | **SNORD42B** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 0.862 |
| 26809 | NR_000014 | **SNORD42A** | small nucleolar RNA, C/I | snoRNA | 1 | 2 | 2 | 3 | 1.313 |
| 26810 | NR_002751 | **SNORD41** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.621 |
| 26811 | NR_000015 | **SNORD55** | small nucleolar RNA, C/I | snoRNA | 14 | 17 | 15 | 18 | 1.188 |
| 26812 | NR_002602 | **SNORD37** | small nucleolar RNA, C/I | snoRNA | 1 | 3 | 2 | 4 | 2.168 |
| 26813 | NR_000016 | **SNORD36C** | small nucleolar RNA, C/I | snoRNA | 3 | 6 | 4 | 7 | 1.665 |
| 26814 | NR_000017 | **SNORD36B** | small nucleolar RNA, C/I | snoRNA | 3 | 4 | 4 | 5 | 1.070 |
| 26815 | NR_002448 | **SNORD36A** | small nucleolar RNA, C/I | snoRNA | 33 | 36 | 34 | 37 | 1.081 |
| 26816 | NR_000018 | **SNORD35A** | small nucleolar RNA, C/I | snoRNA | 5 | 5 | 6 | 6 | 1.037 |
| 26817 | NR_000019 | **SNORD34** | small nucleolar RNA, C/I | snoRNA | 9 | 8 | 10 | 9 | 0.891 |
| 26818 | NR_000020 | **SNORD33** | small nucleolar RNA, C/I | snoRNA | 6 | 5 | 7 | 6 | 0.910 |
| 26819 | NR_000021 | **SNORD32A** | small nucleolar RNA, C/I | snoRNA | 26 | 16 | 27 | 17 | 0.653 |
| 26820 | NR_002447 | **SNORD24** | small nucleolar RNA, C/I | snoRNA | 4 | 4 | 5 | 5 | 0.942 |
| 26821 | NR_002915 | **SNORA74A** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.617 |
| 26822 | NR_000022 | **SNORD14A** | small nucleolar RNA, C/I | snoRNA | 5 | 6 | 6 | 7 | 1.125 |
| 26823 | gene-RNU12-2P | **RNU12-2P** | RNA, U12 small nuclear | pseudogene | 0 | 1 | 1 | 2 | 1.368 |
| 26824 | NR_004407 | **RNU11** | RNA, U11 small nuclear | snRNA | 0 | 0 | 1 | 1 | 1.020 |
| 26827 | NR_004394 | **RNU6-1** | RNA, U6 small nuclear 1 | snRNA | 10 | 11 | 11 | 12 | 1.143 |
| 26828 | NR_002753 | **RNU5F-1** | RNA, U5F small nuclear | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26829 | NR_002754 | **RNU5E-1** | RNA, U5E small nuclear | snRNA | 1 | 1 | 2 | 2 | 0.951 |
| 26830 | NR_002755 | **RNU5D-1** | RNA, U5D small nuclear | snRNA | 1 | 0 | 2 | 1 | 0.561 |
| 26831 | NR_002756 | **RNU5A-1** | RNA, U5A small nuclear | snRNA | 8 | 5 | 9 | 6 | 0.735 |
| 26832 | NR_002757 | **RNU5B-1** | RNA, U5B small nuclear | snRNA | 0 | 0 | 1 | 1 | 0.711 |
| 26834 | NR_003137 | **RNU4-2** | RNA, U4 small nuclear 2 | snRNA | 1 | 0 | 2 | 1 | 0.620 |
| 26835 | NR_003925 | **RNU4-1** | RNA, U4 small nuclear 1 | snRNA | 0 | 0 | 1 | 1 | 0.781 |
| 26843 | NR_145983 | **SNORD3P3** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 26851 | NR_003271 | **SNORD3B-1** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.273 |
| 26852 | gene-RNU2-5P | **RNU2-5P** | RNA, U2 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26853 | gene-RNU2-4P | **RNU2-4P** | RNA, U2 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.095 |
| 26854 | gene-RNU2-3P | **RNU2-3P** | RNA, U2 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26863 | NR_004400 | **RNVU1-18** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.054 |
| 26864 | NR_004426 | **RNVU1-7** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.026 |
| 26869 | NR_004408 | **RNU1-3** | RNA, U1 small nuclear 3 | snRNA | 1 | 1 | 2 | 2 | 1.075 |
| 26870 | NR_004427 | **RNU1-2** | RNA, U1 small nuclear 2 | snRNA | 1 | 1 | 2 | 2 | 1.287 |
| 26871 | NR_004430 | **RNU1-1** | RNA, U1 small nuclear 1 | snRNA | 1 | 1 | 2 | 2 | 1.071 |
| 26872 | NM_012449 | **STEAP1** | STEAP family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26873 | NM_017570,XM_01 | **OPLAH** | 5-oxoprolinase, ATP-hyd | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26952 | NM_012390,XM_01 | **SMR3A** | submaxillary gland andro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26953 | NM_001243202,NM | **RANBP6** | RAN binding protein 6 | protein_coding | 33 | 30 | 34 | 31 | 0.902 |
| 26957 | gene-ABCD1P4 | **ABCD1P4** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26958 | NM_001290033,NM | **COPG2** | COPI coat complex subu | protein_coding | 12 | 12 | 13 | 13 | 1.001 |
| 26959 | NM_001244262,NM | **HBP1** | HMG-box transcription fa | protein_coding | 5 | 6 | 6 | 7 | 1.138 |
| 26960 | NM_001204197,NM | **NBEA** | neurobeachin | protein_coding | 1 | 1 | 2 | 2 | 0.899 |
| 26973 | NM_001144073,NM | **CHORDC1** | cysteine and histidine ric | protein_coding | 146 | 124 | 147 | 125 | 0.844 |
| 26974 | NM_001291488,NM | **ZNF285** | zinc finger protein 285 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26978 | gene-PABPC1P3 | **PABPC1P3** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26980 | gene-PABPC1P1 | **PABPC1P1** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26982 | gene-ABCD1P3 | **ABCD1P3** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26983 | gene-ABCD1P2 | **ABCD1P2** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 26984 | NM_012430,XM_01 | **SEC22A** | SEC22 homolog A, vesic | protein_coding | 11 | 11 | 12 | 12 | 0.999 |
| 26985 | NM_001320263,NM | **AP3M1** | adaptor related protein c | protein_coding | 57 | 50 | 58 | 51 | 0.884 |
| 26986 | NM_002568,XM_00 | **PABPC1** | poly(A) binding protein c | protein_coding | 1,363 | 1,317 | 1,364 | 1,318 | 0.967 |
| 26993 | NM_001291478,NM | **AKAP8L** | A-kinase anchoring prote | protein_coding | 66 | 68 | 67 | 69 | 1.035 |
| 26994 | NM_014372 | **RNF11** | ring finger protein 11 | protein_coding | 29 | 27 | 30 | 28 | 0.914 |
| 26995 | NM_001329861,NM | **TRUB2** | TruB pseudouridine synt | protein_coding | 21 | 22 | 22 | 23 | 1.011 |
| 26996 | NM_014373,XM_00 | **GPR160** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 26998 | NM_001308077,NM | **FETUB** | fetuin B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 26999 | NM_001037333,NM | **CYFIP2** | cytoplasmic FMR1 intera | protein_coding | 163 | 159 | 164 | 160 | 0.975 |
| 27000 | NM_001129887,NM | **DNAJC2** | DnaJ heat shock protein | protein_coding | 106 | 90 | 107 | 91 | 0.845 |
| 27002 | gene-PAFAH1B1P2 | **PAFAH1B1P2** | platelet activating factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 27004 | NR_028288,NR_15 | **TCL6** | T cell leukemia/lymphom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 27005 | NM_001014443,NM | **USP21** | ubiquitin specific peptida | protein_coding | 20 | 22 | 21 | 23 | 1.129 |
| 27006 | NM_001300812,NM | **FGF22** | fibroblast growth factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27010 | NM_001042482,NM | **TPK1** | thiamin pyrophosphokina | protein_coding | 2 | 1 | 3 | 2 | 0.851 |
| 27012 | NM_014379 | **KCNV1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27013 | NM_001321389,NM | **CNPPD1** | cyclin Pas1/PHO80 dom | protein_coding | 74 | 81 | 75 | 82 | 1.090 |
| 27018 | NM_001282674,NM | **BEX3** | brain expressed X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27019 | NM_001281428,NM | **DNAI1** | dynein axonemal interme | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27020 | NM_001161363,NM | **NPTN** | neuroplastin | protein_coding | 104 | 94 | 105 | 95 | 0.908 |
| 27022 | NM_012183 | **FOXD3** | forkhead box D3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 27023 | NM_012182 | **FOXB1** | forkhead box B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27030 | NM_001040108,NM | **MLH3** | mutL homolog 3 | protein_coding | 12 | 10 | 13 | 11 | 0.827 |
| 27031 | NM_153240 | **NPHP3** | nephrocystin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.106 |
| 27032 | NM_001001485,NM | **ATP2C1** | ATPase secretory pathwa | protein_coding | 42 | 39 | 43 | 40 | 0.920 |
| 27033 | NM_001316902,NM | **ZBTB32** | zinc finger and BTB dom | protein_coding | 80 | 81 | 81 | 82 | 1.020 |
| 27034 | NM_014384,XM_005 | **ACAD8** | acyl-CoA dehydrogenase | protein_coding | 35 | 38 | 36 | 39 | 1.087 |
| 27035 | NM_001271815,NM | **NOX1** | NADPH oxidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27036 | NM_001277201,NM | **SIGLEC7** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27037 | NM_001257994,NM | **TRMT2A** | tRNA methyltransferase | protein_coding | 41 | 42 | 42 | 43 | 1.016 |
| 27039 | NM_001258448,NM | **PKD2L2** | polycystin 2 like 2, transi | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 27040 | NM_001014987,NM | **LAT** | linker for activation of T c | protein_coding | 171 | 164 | 172 | 165 | 0.963 |
| 27042 | NM_014388,XM_00 | **UTP25** | UTP25 small subunit pro | protein_coding | 12 | 11 | 13 | 12 | 0.916 |
| 27043 | NM_001278241,NM | **PELP1** | proline, glutamate and le | protein_coding | 31 | 32 | 32 | 33 | 1.020 |
| 27044 | NM_014390,XM_01 | **SND1** | staphylococcal nuclease | protein_coding | 80 | 83 | 81 | 84 | 1.035 |
| 27063 | NM_014391 | **ANKRD1** | ankyrin repeat domain 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27065 | NM_001040101,NM | **NSG1** | neuronal vesicle traffickir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27067 | NM_001164380,NM | **STAU2** | staufen double-stranded | protein_coding | 41 | 36 | 42 | 37 | 0.868 |
| 27068 | NM_006903,NM_17 | **PPA2** | inorganic pyrophosphata | protein_coding | 29 | 29 | 30 | 30 | 0.976 |
| 27069 | NM_014394 | **GHITM** | growth hormone inducibl | protein_coding | 340 | 314 | 341 | 315 | 0.923 |
| 27071 | NM_001306151,NM | **DAPP1** | dual adaptor of phospho | protein_coding | 0 | 0 | 1 | 1 | 1.093 |
| 27072 | NM_014396,NM_08 | **VPS41** | VPS41 subunit of HOPS | protein_coding | 9 | 9 | 10 | 10 | 0.992 |
| 27074 | NM_014398,XM_00 | **LAMP3** | lysosomal associated me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27075 | NM_014399 | **TSPAN13** | tetraspanin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.170 |
| 27076 | NM_014400 | **LYPD3** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27077 | NM_001243473,NM | **B9D1** | B9 domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 0.874 |
| 27079 | NM_001286407,NM | **RPUSD2** | RNA pseudouridine synt | protein_coding | 40 | 42 | 41 | 43 | 1.048 |
| 27085 | NM_022045,XM_01 | **MTBP** | MDM2 binding protein | protein_coding | 24 | 23 | 25 | 24 | 0.974 |
| 27086 | NM_001012505,NM | **FOXP1** | forkhead box P1 | protein_coding | 2 | 2 | 3 | 3 | 0.909 |
| 27087 | NM_001367973,NM | **B3GAT1** | beta-1,3-glucuronyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27089 | NM_014402 | **UQCRQ** | ubiquinol-cytochrome c r | protein_coding | 120 | 135 | 121 | 136 | 1.131 |
| 27090 | NM_175039,NM_17 | **ST6GALNAC4** | ST6 N-acetylgalactosami | protein_coding | 3 | 3 | 4 | 4 | 1.029 |
| 27091 | NM_001371476,NM | **CACNG5** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27092 | NM_014405 | **CACNG4** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27093 | gene-KCNMB3P1 | **KCNMB3P1** | KCNMB3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 27094 | NM_001163677,NM | **KCNMB3** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 27095 | NM_001270894,NM | **TRAPPC3** | trafficking protein particl | protein_coding | 122 | 119 | 123 | 120 | 0.978 |
| 27097 | NM_001025247,NM | **TAF5L** | TATA-box binding protein | protein_coding | 39 | 36 | 40 | 37 | 0.927 |
| 27098 | NM_001289036,NM | **CLUL1** | clusterin like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 27099 | NR_027330 | **SND1-IT1** | SND1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 27101 | NM_001007214,NM | **CACYBP** | calcyclin binding protein | protein_coding | 191 | 181 | 192 | 182 | 0.949 |
| 27102 | NM_001134335,NM | **EIF2AK1** | eukaryotic translation init | protein_coding | 71 | 78 | 72 | 79 | 1.087 |
| 27106 | NM_001025604,NM | **ARRDC2** | arrestin domain containir | protein_coding | 18 | 18 | 19 | 19 | 0.977 |
| 27107 | NM_014415,XM_01 | **ZBTB11** | zinc finger and BTB dom | protein_coding | 22 | 20 | 23 | 21 | 0.905 |
| 27109 | NM_001003803,NM | **DMAC2L** | distal membrane arm ass | protein_coding | 14 | 13 | 15 | 14 | 0.914 |
| 27111 | NM_001199784,NM | **SDCBP2** | syndecan binding protein | protein_coding | 1 | 1 | 2 | 2 | 1.339 |
| 27112 | NM_015686,XM_01 | **FAM155B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27113 | NM_001127240,NM | **BBC3** | BCL2 binding componen | protein_coding | 1 | 1 | 2 | 2 | 0.998 |
| 27115 | NM_018945 | **PDE7B** | phosphodiesterase 7B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27120 | NM_001197301,NM | **DKKL1** | dickkopf like acrosomal p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27121 | NM_014420,XM_01 | **DKK4** | dickkopf WNT signaling | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27122 | NM_001018057,NM | **DKK3** | dickkopf WNT signaling | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27123 | NM_014421 | **DKK2** | dickkopf WNT signaling | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27124 | NM_001002837,NM | **INPP5J** | inositol polyphosphate-5 | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 27125 | NM_014423,XM_00 | **AFF4** | AF4/FMR2 family membe | protein_coding | 21 | 17 | 22 | 18 | 0.843 |
| 27127 | NM_001291501,NM | **SMC1B** | structural maintenance o | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27128 | NM_001318024,NM | **CYTH4** | cytohesin 4 | protein_coding | 70 | 69 | 71 | 70 | 0.984 |
| 27129 | NM_001349682,NM | **HSPB7** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27130 | NM_001318381,NM | **INVS** | inversin | protein_coding | 4 | 4 | 5 | 5 | 0.972 |
| 27131 | NM_001282454,NM | **SNX5** | sorting nexin 5 | protein_coding | 115 | 109 | 116 | 110 | 0.947 |
| 27132 | NM_014427,NM_15 | **CPNE7** | copine 7 | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 27133 | NM_139318,NM_17 | **KCNH5** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27134 | NM_001267560,NM | **TJP3** | tight junction protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27136 | NM_014429,XM_00 | **MORC1** | MORC family CW-type z | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27141 | NM_001318807,NM | **CIDEB** | cell death inducing DFF/ | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 27143 | NM_014431,XM_01 | **PALD1** | phosphatase domain cor | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 27145 | NM_001289987,NM | **FILIP1** | filamin A interacting prot | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 27146 | NM_015688 | **FAM184B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 27147 | NM_001318052,NM | **DENND2A** | DENN domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27148 | NM_001243313,NM | **STK36** | serine/threonine kinase 3 | protein_coding | 13 | 13 | 14 | 14 | 1.003 |
| 27151 | NM_015692,NR_14 | **CPAMD8** | C3 and PZP like alpha-2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27152 | NM_015693,XM_01 | **INTU** | inturned planar cell pola | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27153 | NM_015694,XM_00 | **ZNF777** | zinc finger protein 777 | protein_coding | 9 | 11 | 10 | 12 | 1.237 |
| 27154 | NM_015695,XM_00 | **BRPF3** | bromodomain and PHD f | protein_coding | 56 | 51 | 57 | 52 | 0.925 |
| 27156 | NM_014433,XM_01 | **RSPH14** | radial spoke head 14 hor | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 27158 | NM_001144026,NM | **NDOR1** | NADPH dependent difla | protein_coding | 22 | 23 | 23 | 24 | 1.025 |
| 27159 | NM_001040623,NM | **CHIA** | chitinase acidic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27160 | NR_002226 | **INGX** | inhibitor of growth family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 27161 | NM_001164623,NM | **AGO2** | argonaute RISC catalytic | protein_coding | 26 | 20 | 27 | 21 | 0.787 |
| 27163 | NM_001042402,NM | **NAAA** | N-acylethanolamine acid | protein_coding | 18 | 18 | 19 | 19 | 0.999 |
| 27164 | NM_171999 | **SALL3** | spalt like transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27165 | NM_001280796,NM | **GLS2** | glutaminase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27166 | NM_001271828,NM | **PRELID1** | PRELI domain containing | protein_coding | 448 | 456 | 449 | 457 | 1.018 |
| 27170 | gene-COTL1P1 | **COTL1P1** | COTL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 27173 | NM_001271957,NM | **SLC39A1** | solute carrier family 39 m | protein_coding | 149 | 142 | 150 | 143 | 0.950 |
| 27175 | NM_001320509,NM | **TUBG2** | tubulin gamma 2 | protein_coding | 16 | 22 | 17 | 23 | 1.350 |
| 27177 | NM_014438,NM_17 | **IL36B** | interleukin 36 beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27178 | NM_014439,NM_17 | **IL37** | interleukin 37 | protein_coding | 0 | 0 | 1 | 1 | 0.801 |
| 27179 | NM_014440,XM_00 | **IL36A** | interleukin 36 alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27180 | NM_001198558,NM | **SIGLEC9** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27181 | NM_001363548,NM | **SIGLEC8** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27183 | NM_013245 | **VPS4A** | vacuolar protein sorting 4 | protein_coding | 59 | 58 | 60 | 59 | 0.991 |
| 27184 | NR_002227 | **DISC2** | disrupted in schizophren | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 27185 | NM_001012957,NM | **DISC1** | DISC1 scaffold protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27187 | gene-MOCS1P1 | **MOCS1P1** | molybdenum cofactor sy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 27189 | NM_013278 | **IL17C** | interleukin 17C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27190 | NM_001317987,NM | **IL17B** | interleukin 17B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27196 | gene-TRAPPC2P2 | **TRAPPC2P2** | trafficking protein particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 27197 | NM_080817 | **GPR82** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27198 | NM_032554 | **HCAR1** | hydroxycarboxylic acid re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27199 | NM_001346194,NM | **OXGR1** | oxoglutarate receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27201 | NM_080819,NR_04 | **GPR78** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27202 | NM_001271749,NM | **C5AR2** | complement component | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27229 | NM_001286414,NM | **TUBGCP4** | tubulin gamma complex | protein_coding | 25 | 20 | 26 | 21 | 0.817 |
| 27230 | NM_014445 | **SERP1** | stress associated endopl | protein_coding | 146 | 146 | 147 | 147 | 0.996 |
| 27231 | NM_001289117,NM | **NMRK2** | nicotinamide riboside kin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27232 | NM_001318865,NM | **GNMT** | glycine N-methyltransfer | protein_coding | 0 | 0 | 1 | 1 | 0.849 |
| 27233 | NM_001321770,NM | **SULT1C4** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27235 | NM_001358921,NM | **COQ2** | coenzyme Q2, polypreny | protein_coding | 11 | 10 | 12 | 11 | 0.987 |
| 27236 | NM_001025593,NM | **ARFIP1** | ADP ribosylation factor ir | protein_coding | 29 | 24 | 30 | 25 | 0.830 |
| 27237 | NM_014448,XM_01 | **ARHGEF16** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27238 | NM_015698,XM_01 | **GPKOW** | G-patch domain and KO | protein_coding | 40 | 38 | 41 | 39 | 0.935 |
| 27239 | NM_014449,NM_01 | **GPR162** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27240 | NM_014450 | **SIT1** | signaling threshold regul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27241 | NM_001033604,NM | **BBS9** | Bardet-Biedl syndrome 9 | protein_coding | 1 | 1 | 2 | 2 | 0.909 |
| 27242 | NM_014452,XM_01 | **TNFRSF21** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27243 | NM_014453,NM_19 | **CHMP2A** | charged multivesicular b | protein_coding | 104 | 127 | 105 | 128 | 1.218 |
| 27244 | NM_001199933,NM | **SESN1** | sestrin 1 | protein_coding | 7 | 4 | 8 | 5 | 0.648 |
| 27245 | NM_001029882,NM | **AHDC1** | AT-hook DNA binding m | protein_coding | 6 | 5 | 7 | 6 | 0.895 |
| 27246 | NM_014455,XM_00 | **RNF115** | ring finger protein 115 | protein_coding | 50 | 40 | 51 | 41 | 0.801 |
| 27247 | NM_001002755,NM | **NFU1** | NFU1 iron-sulfur cluster | protein_coding | 74 | 80 | 75 | 81 | 1.072 |
| 27248 | NM_001127397,NM | **ERLEC1** | endoplasmic reticulum le | protein_coding | 34 | 32 | 35 | 33 | 0.943 |
| 27249 | NM_015702 | **MMADHC** | metabolism of cobalamin | protein_coding | 194 | 172 | 195 | 173 | 0.887 |
| 27250 | NM_001199492,NM | **PDCD4** | programmed cell death 4 | protein_coding | 33 | 30 | 34 | 31 | 0.907 |
| 27252 | NM_014458,XM_00 | **KLHL20** | kelch like family member | protein_coding | 16 | 14 | 17 | 15 | 0.871 |
| 27253 | NM_001040429,XM | **PCDH17** | protocadherin 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27254 | NM_014460 | **CSDC2** | cold shock domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 27255 | NM_001289080,NM | **CNTN6** | contactin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27257 | NM_014462,NR_04 | **LSM1** | LSM1 homolog, mRNA d | protein_coding | 196 | 191 | 197 | 192 | 0.971 |
| 27258 | NM_014463 | **LSM3** | LSM3 homolog, U6 smal | protein_coding | 55 | 52 | 56 | 53 | 0.949 |
| 27283 | NM_014464,XM_00 | **TINAG** | tubulointerstitial nephritis | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27284 | NM_014465,XM_00 | **SULT1B1** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 27285 | NM_014466,XM_00 | **TEKT2** | tektin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 27286 | NM_014467 | **SRPX2** | sushi repeat containing p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27287 | NM_014468,XM_01 | **VENTX** | VENT homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27288 | NM_014469 | **RBMXL2** | RBMX like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27289 | NM_014470 | **RND1** | Rho family GTPase 1 | protein_coding | 1 | 1 | 2 | 2 | 1.084 |
| 27290 | NM_014471 | **SPINK4** | serine peptidase inhibito | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27291 | NM_001256619,NM | **R3HCC1L** | R3H domain and coiled-c | protein_coding | 20 | 19 | 21 | 20 | 0.960 |
| 27292 | NM_001348076,NM | **DIMT1** | DIMT1 rRNA methyltrans | protein_coding | 51 | 47 | 52 | 48 | 0.930 |
| 27293 | NM_001009568,NM | **SMPDL3B** | sphingomyelin phosphoc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27294 | NM_014475,XM_00 | **DHDH** | dihydrodiol dehydrogena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27295 | NM_001114107,NM | **PDLIM3** | PDZ and LIM domain 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27296 | NM_014477,XM_01 | **TP53TG5** | TP53 target 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27297 | NM_001040647,NM | **CRCP** | CGRP receptor compone | protein_coding | 61 | 52 | 62 | 53 | 0.862 |
| 27299 | NM_001145271,NM | **ADAMDEC1** | ADAM like decysin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27300 | NM_001320767,NM | **ZNF544** | zinc finger protein 544 | protein_coding | 18 | 17 | 19 | 18 | 0.953 |
| 27301 | NM_001271748,NM | **APEX2** | apurinic/apyrimidinic end | protein_coding | 41 | 45 | 42 | 46 | 1.106 |
| 27302 | NM_014482 | **BMP10** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 27303 | NM_001003792,NM | **RBMS3** | RNA binding motif single | protein_coding | 1 | 1 | 2 | 2 | 0.845 |
| 27304 | NM_014484 | **MOCS3** | molybdenum cofactor sy | protein_coding | 11 | 11 | 12 | 12 | 0.997 |
| 27306 | NM_014485,XM_00 | **HPGDS** | hematopoietic prostaglar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27309 | NM_001292002,NM | **ZNF330** | zinc finger protein 330 | protein_coding | 126 | 105 | 127 | 106 | 0.837 |
| 27314 | NM_001286059,NM | **RAB30** | RAB30, member RAS on | protein_coding | 1 | 1 | 2 | 2 | 0.816 |
| 27315 | NM_001145438,NM | **PGAP2** | post-GPI attachment to p | protein_coding | 25 | 30 | 26 | 31 | 1.202 |
| 27316 | NM_001164803,NM | **RBMX** | RNA binding motif protei | protein_coding | 417 | 418 | 418 | 419 | 1.001 |
| 27319 | NM_152414 | **BHLHE22** | basic helix-loop-helix fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27321 | NR_146582 | **TNRC17** | trinucleotide repeat cont | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 27324 | NM_001080430,NM | **TOX3** | TOX high mobility group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27327 | NM_001330520,NM | **TNRC6A** | trinucleotide repeat cont | protein_coding | 50 | 42 | 51 | 43 | 0.849 |
| 27328 | NM_001168360,NM | **PCDH11X** | protocadherin 11 X-linke | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27329 | NM_014495 | **ANGPTL3** | angiopoietin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27330 | NM_001330512,NM | **RPS6KA6** | ribosomal protein S6 kin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27332 | NM_001014972,NM | **ZNF638** | zinc finger protein 638 | protein_coding | 35 | 32 | 36 | 33 | 0.919 |
| 27333 | NM_001308155,NM | **GOLIM4** | golgi integral membrane | protein_coding | 29 | 27 | 30 | 28 | 0.920 |
| 27334 | NM_001324218,NM | **P2RY10** | P2Y receptor family mem | protein_coding | 22 | 17 | 23 | 18 | 0.755 |
| 27335 | NM_001300992,NM | **EIF3K** | eukaryotic translation init | protein_coding | 723 | 769 | 724 | 770 | 1.063 |
| 27336 | NM_001163280,NM | **HTATSF1** | HIV-1 Tat specific factor | protein_coding | 109 | 102 | 110 | 103 | 0.939 |
| 27338 | NM_014501,XM_01 | **UBE2S** | ubiquitin conjugating en | protein_coding | 371 | 397 | 372 | 398 | 1.070 |
| 27339 | NM_014502 | **PRPF19** | pre-mRNA processing fa | protein_coding | 356 | 362 | 357 | 363 | 1.017 |
| 27340 | NM_014503 | **UTP20** | UTP20 small subunit pro | protein_coding | 36 | 31 | 37 | 32 | 0.865 |
| 27341 | NM_015703 | **RRP7A** | ribosomal RNA processir | protein_coding | 54 | 57 | 55 | 58 | 1.050 |
| 27342 | NM_001287060,NM | **RABGEF1** | RAB guanine nucleotide | protein_coding | 29 | 28 | 30 | 29 | 0.957 |
| 27343 | NM_001174084,NM | **POLL** | DNA polymerase lambda | protein_coding | 14 | 14 | 15 | 15 | 1.045 |
| 27344 | NM_013271 | **PCSK1N** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27345 | NM_014505,XM_01 | **KCNMB4** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 27346 | NM_014573,XM_00 | **TMEM97** | transmembrane protein 9 | protein_coding | 111 | 109 | 112 | 110 | 0.983 |
| 27347 | NM_013233,XM_00 | **STK39** | serine/threonine kinase 3 | protein_coding | 93 | 88 | 94 | 89 | 0.946 |
| 27348 | NM_001317893,NM | **TOR1B** | torsin family 1 member B | protein_coding | 18 | 18 | 19 | 19 | 1.010 |
| 27349 | NM_014507,NM_17 | **MCAT** | malonyl-CoA-acyl carrier | protein_coding | 14 | 15 | 15 | 16 | 1.062 |
| 27350 | NM_014508,XM_02 | **APOBEC3C** | apolipoprotein B mRNA e | protein_coding | 192 | 195 | 193 | 196 | 1.013 |
| 27351 | NM_015704,XM_00 | **DESI1** | desumoylating isopeptida | protein_coding | 69 | 71 | 70 | 72 | 1.027 |
| 27352 | NM_001301849,NM | **SGSM3** | small G protein signaling | protein_coding | 11 | 11 | 12 | 12 | 1.045 |
| 27429 | NM_001321727,NM | **HTRA2** | HtrA serine peptidase 2 | protein_coding | 51 | 45 | 52 | 46 | 0.879 |
| 27430 | NM_013283,NM_18 | **MAT2B** | methionine adenosyltran | protein_coding | 119 | 111 | 120 | 112 | 0.933 |
| 27433 | NM_001085347,NM | **TOR2A** | torsin family 2 member A | protein_coding | 25 | 27 | 26 | 28 | 1.108 |
| 27434 | NM_001284330,NM | **POLM** | DNA polymerase mu | protein_coding | 8 | 9 | 9 | 10 | 1.131 |
| 27436 | NM_001145076,NM | **EML4** | EMAP like 4 | protein_coding | 84 | 71 | 85 | 72 | 0.848 |
| 27437 | NR_003607 | **HSFY1P1** | HSFY1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 27439 | NM_001163079,NM | **TMEM121B** | transmembrane protein 1 | protein_coding | 1 | 1 | 2 | 2 | 1.045 |
| 27440 | NM_017829,NM_03 | **HDHD5** | haloacid dehalogenase l | protein_coding | 81 | 85 | 82 | 86 | 1.048 |
| 27442 | NR_038398 | **CECR3** | cat eye syndrome chrom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 27443 | NM_001290046,NM | **CECR2** | CECR2 histone acetyl-ly | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 27445 | NM_014510,NM_03 | **PCLO** | piccolo presynaptic cytor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28227 | NM_013239,NM_01 | **PPP2R3B** | protein phosphatase 2 re | protein_coding | 6 | 7 | 7 | 8 | 1.223 |
| 28231 | NM_016354,XM_00 | **SLCO4A1** | solute carrier organic ani | protein_coding | 161 | 156 | 162 | 157 | 0.968 |
| 28232 | NM_001145044,NM | **SLCO3A1** | solute carrier organic ani | protein_coding | 1 | 1 | 2 | 2 | 0.769 |
| 28234 | NM_001349920,NM | **SLCO1B3** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28299 | id-IGKV1-5 | **IGKV1-5** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28316 | NM_031891,XM_02 | **CDH20** | cadherin 20 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28337 | id-IGHVIV-44-1 | **IGHVIV-44-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28338 | id-IGHVIII-82 | **IGHVIII-82** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28339 | id-IGHVIII-76-1 | **IGHVIII-76-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28340 | id-IGHVIII-67-4 | **IGHVIII-67-4** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28341 | id-IGHVIII-67-3 | **IGHVIII-67-3** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28342 | id-IGHVIII-67-2 | **IGHVIII-67-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28343 | id-IGHV8-51-1 | **IGHV8-51-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28344 | id-IGHVIII-47-1 | **IGHVIII-47-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28345 | id-IGHVIII-44 | **IGHVIII-44** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28346 | id-IGHVIII-38-1 | **IGHVIII-38-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28347 | id-IGHVIII-26-1 | **IGHVIII-26-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28348 | id-IGHVIII-25-1 | **IGHVIII-25-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28349 | id-IGHVIII-22-2 | **IGHVIII-22-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28350 | id-IGHVIII-16-1 | **IGHVIII-16-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28351 | id-IGHVIII-13-1 | **IGHVIII-13-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28352 | id-IGHVIII-11-1 | **IGHVIII-11-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28353 | id-IGHVIII-5-2 | **IGHVIII-5-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28354 | id-IGHVIII-5-1 | **IGHVIII-5-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28355 | id-IGHVIII-2-1 | **IGHVIII-2-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28356 | id-IGHVII-78-1 | **IGHVII-78-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28357 | id-IGHVII-74-1 | **IGHVII-74-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28358 | id-IGHVII-67-1 | **IGHVII-67-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28359 | id-IGHVII-65-1 | **IGHVII-65-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28360 | id-IGHVII-62-1 | **IGHVII-62-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28361 | id-IGHVII-60-1 | **IGHVII-60-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28362 | id-IGHVII-53-1 | **IGHVII-53-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28363 | id-IGHVII-51-2 | **IGHVII-51-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28364 | id-IGHVII-49-1 | **IGHVII-49-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28365 | id-IGHVII-46-1 | **IGHVII-46-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28366 | id-IGHVII-44-2 | **IGHVII-44-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28367 | id-IGHVII-43-1 | **IGHVII-43-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28368 | id-IGHVII-40-1 | **IGHVII-40-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28369 | id-IGHVII-33-1 | **IGHVII-33-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28371 | id-IGHVII-30-1 | **IGHVII-30-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28372 | id-IGHVII-28-1 | **IGHVII-28-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28373 | id-IGHVII-26-2 | **IGHVII-26-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28374 | id-IGHVII-22-1 | **IGHVII-22-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28375 | id-IGHVII-20-1 | **IGHVII-20-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28376 | id-IGHVII-15-1 | **IGHVII-15-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28377 | id-IGHVII-1-1 | **IGHVII-1-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28378 | id-IGHV7-81 | **IGHV7-81** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28380 | id-IGHV7-56 | **IGHV7-56** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28381 | id-IGHV7-40 | **IGHV7-40** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28382 | id-IGHV7-34-1 | **IGHV7-34-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28383 | id-IGHV7-27 | **IGHV7-27** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28385 | id-IGHV6-1 | **IGHV6-1** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28386 | id-IGHV5-10-1 | **IGHV5-10-1** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28387 | id-IGHV5-78 | **IGHV5-78** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28388 | id-IGHV5-51 | **IGHV5-51** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28390 | id-IGHV4-80 | **IGHV4-80** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28391 | id-IGHV4-61 | **IGHV4-61** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28392 | id-IGHV4-59 | **IGHV4-59** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28393 | id-IGHV4-55 | **IGHV4-55** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28394 | id-IGHV4-39 | **IGHV4-39** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28395 | id-IGHV4-34 | **IGHV4-34** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.286 |
| 28398 | id-IGHV4-30-2 | **IGHV4-30-2** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28400 | id-IGHV4-28 | **IGHV4-28** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28401 | id-IGHV4-4 | **IGHV4-4** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28402 | id-IGHV3-69-1 | **IGHV3-69-1** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28405 | id-IGHV3-79 | **IGHV3-79** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28406 | id-IGHV3-76 | **IGHV3-76** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28407 | id-IGHV3-75 | **IGHV3-75** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28408 | id-IGHV3-74 | **IGHV3-74** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28409 | id-IGHV3-73 | **IGHV3-73** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28410 | id-IGHV3-72 | **IGHV3-72** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28411 | id-IGHV3-71 | **IGHV3-71** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28412 | id-IGHV3-66 | **IGHV3-66** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28413 | id-IGHV3-65 | **IGHV3-65** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28414 | id-IGHV3-64 | **IGHV3-64** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28415 | id-IGHV3-63 | **IGHV3-63** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28416 | id-IGHV3-62 | **IGHV3-62** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28417 | id-IGHV3-60 | **IGHV3-60** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28418 | id-IGHV3-57 | **IGHV3-57** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28419 | id-IGHV3-54 | **IGHV3-54** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28420 | id-IGHV3-53 | **IGHV3-53** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28421 | id-IGHV3-52 | **IGHV3-52** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28422 | id-IGHV3-50 | **IGHV3-50** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28423 | id-IGHV3-49 | **IGHV3-49** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28424 | id-IGHV3-48 | **IGHV3-48** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28425 | id-IGHV3-47 | **IGHV3-47** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28426 | id-IGHV3-43 | **IGHV3-43** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28427 | id-IGHV3-42 | **IGHV3-42** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28428 | id-IGHV3-41 | **IGHV3-41** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28429 | id-IGHV3-38 | **IGHV3-38** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28430 | id-IGHV3-37 | **IGHV3-37** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28431 | id-IGHV3-36 | **IGHV3-36** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28432 | id-IGHV3-35 | **IGHV3-35** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28433 | id-IGHV3-33-2 | **IGHV3-33-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28434 | id-IGHV3-33 | **IGHV3-33** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28435 | id-IGHV3-32 | **IGHV3-32** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28438 | id-IGHV3-30-2 | **IGHV3-30-2** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28439 | id-IGHV3-30 | **IGHV3-30** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28440 | id-IGHV3-29 | **IGHV3-29** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28441 | id-IGHV3-25 | **IGHV3-25** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28442 | id-IGHV3-23 | **IGHV3-23** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28443 | id-IGHV3-22 | **IGHV3-22** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28444 | id-IGHV3-21 | **IGHV3-21** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28445 | id-IGHV3-20 | **IGHV3-20** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28446 | id-IGHV3-19 | **IGHV3-19** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28447 | id-IGHV3-16 | **IGHV3-16** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28448 | id-IGHV3-15 | **IGHV3-15** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28449 | id-IGHV3-13 | **IGHV3-13** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28450 | id-IGHV3-11 | **IGHV3-11** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28452 | id-IGHV3-7 | **IGHV3-7** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28453 | id-IGHV3-6 | **IGHV3-6** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28454 | id-IGHV2-70 | **IGHV2-70** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28455 | id-IGHV2-26 | **IGHV2-26** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28457 | id-IGHV2-5 | **IGHV2-5** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28458 | id-IGHV1-69-2 | **IGHV1-69-2** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28461 | id-IGHV1-69 | **IGHV1-69** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28462 | id-IGHV1-68 | **IGHV1-68** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28463 | id-IGHV1-67 | **IGHV1-67** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28464 | id-IGHV1-58 | **IGHV1-58** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28465 | id-IGHV1-46 | **IGHV1-46** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28466 | id-IGHV1-45 | **IGHV1-45** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28467 | id-IGHV1-24 | **IGHV1-24** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28468 | id-IGHV1-18 | **IGHV1-18** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28469 | id-IGHV1-17 | **IGHV1-17** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28470 | id-IGHV1-14 | **IGHV1-14** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28471 | id-IGHV1-12 | **IGHV1-12** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28473 | id-IGHV1-3 | **IGHV1-3** | immunoglobulin heavy va | V_segment | 3 | 3 | 4 | 4 | 0.853 |
| 28474 | id-IGHV1-2 | **IGHV1-2** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28475 | id-IGHJ6 | **IGHJ6** | immunoglobulin heavy jc | J_segment | 0 | 1 | 1 | 2 | 1.814 |
| 28476 | id-IGHJ5 | **IGHJ5** | immunoglobulin heavy jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28477 | id-IGHJ4 | **IGHJ4** | immunoglobulin heavy jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28478 | id-IGHJ3P | **IGHJ3P** | immunoglobulin heavy jc | J_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28479 | id-IGHJ3 | **IGHJ3** | immunoglobulin heavy jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28480 | id-IGHJ2P | **IGHJ2P** | immunoglobulin heavy jc | J_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28481 | id-IGHJ2 | **IGHJ2** | immunoglobulin heavy jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28482 | id-IGHJ1P | **IGHJ1P** | immunoglobulin heavy jc | J_segment_pseu | 0 | 0 | 1 | 1 | 1.276 |
| 28483 | id-IGHJ1 | **IGHJ1** | immunoglobulin heavy jc | J_segment | 1 | 1 | 2 | 2 | 1.392 |
| 28484 | id-IGHD7-27 | **IGHD7-27** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28485 | id-IGHD6-25 | **IGHD6-25** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28486 | id-IGHD6-19 | **IGHD6-19** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28487 | id-IGHD6-13 | **IGHD6-13** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28488 | id-IGHD6-6 | **IGHD6-6** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28489 | id-IGHD5-24 | **IGHD5-24** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28490 | id-IGHD5-18 | **IGHD5-18** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28491 | id-IGHD5-12 | **IGHD5-12** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28492 | id-IGHD5-5 | **IGHD5-5** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28493 | id-IGHD4-23 | **IGHD4-23** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28494 | id-IGHD4-17 | **IGHD4-17** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28495 | id-IGHD4-11 | **IGHD4-11** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28496 | id-IGHD4-4 | **IGHD4-4** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28497 | id-IGHD3-22 | **IGHD3-22** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28498 | id-IGHD3-16 | **IGHD3-16** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28499 | id-IGHD3-10 | **IGHD3-10** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28500 | id-IGHD3-9 | **IGHD3-9** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28501 | id-IGHD3-3 | **IGHD3-3** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28502 | id-IGHD2-21 | **IGHD2-21** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28503 | id-IGHD2-15 | **IGHD2-15** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28504 | id-IGHD2-8 | **IGHD2-8** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28505 | id-IGHD2-2 | **IGHD2-2** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28506 | id-IGHD1-26 | **IGHD1-26** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28507 | id-IGHD1-20 | **IGHD1-20** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28508 | id-IGHD1-14 | **IGHD1-14** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28509 | id-IGHD1-7 | **IGHD1-7** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28510 | id-IGHD1-1 | **IGHD1-1** | immunoglobulin heavy d | D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28511 | NM_001001349,NM | **NKIRAS2** | NFKB inhibitor interactin | protein_coding | 59 | 63 | 60 | 64 | 1.051 |
| 28512 | NM_001377351,NM | **NKIRAS1** | NFKB inhibitor interactin | protein_coding | 6 | 5 | 7 | 6 | 0.882 |
| 28513 | NM_001271028,NM | **CDH19** | cadherin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28514 | NM_005618,XM_005 | **DLL1** | delta like canonical Notc | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 28516 | id-TRDV3 | **TRDV3** | T cell receptor delta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28517 | id-TRDV2 | **TRDV2** | T cell receptor delta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28518 | id-TRDV1 | **TRDV1** | T cell receptor delta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28519 | id-TRDJ4 | **TRDJ4** | T cell receptor delta joini | J_segment | 45 | 42 | 46 | 43 | 0.932 |
| 28520 | id-TRDJ3 | **TRDJ3** | T cell receptor delta joini | J_segment | 28 | 33 | 29 | 34 | 1.178 |
| 28521 | id-TRDJ2 | **TRDJ2** | T cell receptor delta joini | J_segment | 142 | 157 | 143 | 158 | 1.103 |
| 28522 | id-TRDJ1 | **TRDJ1** | T cell receptor delta joini | J_segment | 192 | 204 | 193 | 205 | 1.064 |
| 28523 | id-TRDD3 | **TRDD3** | T cell receptor delta dive | D_segment | 35 | 39 | 36 | 40 | 1.118 |
| 28526 | id-TRDC | **TRDC** | T cell receptor delta cons | C_region | 231 | 253 | 232 | 254 | 1.094 |
| 28552 | id-TRBV23OR9-2 | **TRBV23OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28555 | id-TRBVB | **TRBVB** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28556 | id-TRBVA | **TRBVA** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28557 | id-TRBV30 | **TRBV30** | T cell receptor beta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28558 | id-TRBV29-1 | **TRBV29-1** | T cell receptor beta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28559 | id-TRBV28 | **TRBV28** | T cell receptor beta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28560 | id-TRBV27 | **TRBV27** | T cell receptor beta varia | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28561 | id-TRBV26 | **TRBV26** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28562 | id-TRBV25-1 | **TRBV25-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28563 | id-TRBV24-1 | **TRBV24-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28564 | id-TRBV23-1 | **TRBV23-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28565 | id-TRBV22-1 | **TRBV22-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28566 | id-TRBV21-1 | **TRBV21-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28567 | id-TRBV20-1 | **TRBV20-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.261 |
| 28568 | id-TRBV19 | **TRBV19** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28569 | id-TRBV18 | **TRBV18** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28570 | id-TRBV17 | **TRBV17** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28571 | id-TRBV16 | **TRBV16** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28572 | id-TRBV15 | **TRBV15** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28573 | id-TRBV14 | **TRBV14** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28574 | id-TRBV13 | **TRBV13** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 0.742 |
| 28575 | id-TRBV12-5 | **TRBV12-5** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28576 | id-TRBV12-4 | **TRBV12-4** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28577 | id-TRBV12-3 | **TRBV12-3** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28578 | id-TRBV12-2 | **TRBV12-2** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28579 | id-TRBV12-1 | **TRBV12-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28580 | id-TRBV11-3 | **TRBV11-3** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28581 | id-TRBV11-2 | **TRBV11-2** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28582 | id-TRBV11-1 | **TRBV11-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28583 | id-TRBV10-3 | **TRBV10-3** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28584 | id-TRBV10-2 | **TRBV10-2** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28585 | id-TRBV10-1 | **TRBV10-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28586 | id-TRBV9 | **TRBV9** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28587 | id-TRBV8-2 | **TRBV8-2** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28588 | id-TRBV8-1 | **TRBV8-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28589 | id-TRBV7-9 | **TRBV7-9** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28591 | id-TRBV7-7 | **TRBV7-7** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28592 | id-TRBV7-6 | **TRBV7-6** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28593 | id-TRBV7-5 | **TRBV7-5** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28594 | id-TRBV7-4 | **TRBV7-4** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28595 | id-TRBV7-3 | **TRBV7-3** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28596 | id-TRBV7-2 | **TRBV7-2** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28597 | id-TRBV7-1 | **TRBV7-1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28599 | id-TRBV6-8 | **TRBV6-8** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28600 | id-TRBV6-7 | **TRBV6-7** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28601 | id-TRBV6-6 | **TRBV6-6** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28602 | id-TRBV6-5 | **TRBV6-5** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28603 | id-TRBV6-4 | **TRBV6-4** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28604 | id-TRBV6-3 | **TRBV6-3** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28606 | id-TRBV6-1 | **TRBV6-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28608 | id-TRBV5-7 | **TRBV5-7** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28609 | id-TRBV5-6 | **TRBV5-6** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28610 | id-TRBV5-5 | **TRBV5-5** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28611 | id-TRBV5-4 | **TRBV5-4** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28612 | id-TRBV5-3 | **TRBV5-3** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28613 | id-TRBV5-2 | **TRBV5-2** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28614 | id-TRBV5-1 | **TRBV5-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28616 | id-TRBV4-2 | **TRBV4-2** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28617 | id-TRBV4-1 | **TRBV4-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28619 | id-TRBV3-1 | **TRBV3-1** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28620 | id-TRBV2 | **TRBV2** | T cell receptor beta varia V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28621 | id-TRBV1 | **TRBV1** | T cell receptor beta varia V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28622 | id-TRBJ2-7 | **TRBJ2-7** | T cell receptor beta joinir J_segment | 7 | 13 | 8 | 14 | 1.663 |
| 28623 | id-TRBJ2-6 | **TRBJ2-6** | T cell receptor beta joinir J_segment | 10 | 14 | 11 | 15 | 1.408 |
| 28624 | id-TRBJ2-5 | **TRBJ2-5** | T cell receptor beta joinir J_segment | 12 | 15 | 13 | 16 | 1.230 |
| 28625 | id-TRBJ2-4 | **TRBJ2-4** | T cell receptor beta joinir J_segment | 54 | 67 | 55 | 68 | 1.245 |
| 28626 | id-TRBJ2-3 | **TRBJ2-3** | T cell receptor beta joinir J_segment | 196 | 233 | 197 | 234 | 1.186 |
| 28627 | id-TRBJ2-2P | **TRBJ2-2P** | T cell receptor beta joinir J_segment_pseu | 63 | 56 | 64 | 57 | 0.890 |
| 28628 | id-TRBJ2-2 | **TRBJ2-2** | T cell receptor beta joinir J_segment | 18 | 15 | 19 | 16 | 0.884 |
| 28629 | id-TRBJ2-1 | **TRBJ2-1** | T cell receptor beta joinir J_segment | 60 | 65 | 61 | 66 | 1.075 |
| 28630 | id-TRBJ1-6 | **TRBJ1-6** | T cell receptor beta joinir J_segment | 15 | 16 | 16 | 17 | 1.107 |
| 28631 | id-TRBJ1-5 | **TRBJ1-5** | T cell receptor beta joinir J_segment | 294 | 334 | 295 | 335 | 1.138 |
| 28632 | id-TRBJ1-4 | **TRBJ1-4** | T cell receptor beta joinir J_segment | 62 | 82 | 63 | 83 | 1.333 |
| 28633 | id-TRBJ1-3 | **TRBJ1-3** | T cell receptor beta joinir J_segment | 9 | 24 | 10 | 25 | 2.508 |
| 28634 | id-TRBJ1-2 | **TRBJ1-2** | T cell receptor beta joinir J_segment | 5 | 6 | 6 | 7 | 1.197 |
| 28635 | id-TRBJ1-1 | **TRBJ1-1** | T cell receptor beta joinir J_segment | 25 | 38 | 26 | 39 | 1.490 |
| 28636 | id-TRBD2 | **TRBD2** | T cell receptor beta diver D_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28637 | id-TRBD1 | **TRBD1** | T cell receptor beta diver D_segment | 5 | 0 | 6 | 1 | 0.235 |
| 28638 | id-TRBC2 | **TRBC2** | T cell receptor beta cons C_region | 261 | 302 | 262 | 303 | 1.156 |
| 28639 | id-TRBC1 | **TRBC1** | T cell receptor beta cons C_region | 330 | 385 | 331 | 386 | 1.168 |
| 28640 | id-TRAV41 | **TRAV41** | T cell receptor alpha vari V_segment | 1 | 1 | 2 | 2 | 1.163 |
| 28641 | id-TRAV40 | **TRAV40** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28642 | id-TRAV39 | **TRAV39** | T cell receptor alpha vari V_segment | 0 | 1 | 1 | 2 | 1.188 |
| 28643 | id-TRAV38-2DV8 | **TRAV38-2DV8** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.233 |
| 28644 | id-TRAV38-1 | **TRAV38-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28645 | id-TRAV37 | **TRAV37** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28646 | id-TRAV36DV7 | **TRAV36DV7** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28647 | id-TRAV35 | **TRAV35** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28648 | id-TRAV34 | **TRAV34** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28649 | id-TRAV33 | **TRAV33** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28650 | id-TRAV32 | **TRAV32** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28651 | id-TRAV31 | **TRAV31** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28652 | id-TRAV30 | **TRAV30** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28653 | id-TRAV29DV5 | **TRAV29DV5** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28654 | id-TRAV28 | **TRAV28** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28655 | id-TRAV27 | **TRAV27** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28656 | id-TRAV26-2 | **TRAV26-2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28657 | id-TRAV26-1 | **TRAV26-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28658 | id-TRAV25 | **TRAV25** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28659 | id-TRAV24 | **TRAV24** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28660 | id-TRAV23DV6 | **TRAV23DV6** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28661 | id-TRAV22 | **TRAV22** | T cell receptor alpha vari V_segment | 1 | 3 | 2 | 4 | 1.870 |
| 28662 | id-TRAV21 | **TRAV21** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28663 | id-TRAV20 | **TRAV20** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28664 | id-TRAV19 | **TRAV19** | T cell receptor alpha vari V_segment | 1 | 0 | 2 | 1 | 0.723 |
| 28665 | id-TRAV18 | **TRAV18** | T cell receptor alpha vari V_segment | 1 | 1 | 2 | 2 | 0.961 |
| 28666 | id-TRAV17 | **TRAV17** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28667 | id-TRAV16 | **TRAV16** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.122 |
| 28668 | id-TRAV15 | **TRAV15** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28669 | id-TRAV14DV4 | **TRAV14DV4** | T cell receptor alpha vari V_segment | 2 | 1 | 3 | 2 | 0.691 |
| 28670 | id-TRAV13-2 | **TRAV13-2** | T cell receptor alpha vari V_segment | 0 | 2 | 1 | 3 | 2.540 |
| 28671 | id-TRAV13-1 | **TRAV13-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 0.858 |
| 28672 | id-TRAV12-3 | **TRAV12-3** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28673 | id-TRAV12-2 | **TRAV12-2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28674 | id-TRAV12-1 | **TRAV12-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28675 | id-TRAV11 | **TRAV11** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28676 | id-TRAV10 | **TRAV10** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28677 | id-TRAV9-2 | **TRAV9-2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28678 | id-TRAV9-1 | **TRAV9-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28679 | id-TRAV8-7 | **TRAV8-7** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28680 | id-TRAV8-6 | **TRAV8-6** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28681 | id-TRAV8-5 | **TRAV8-5** | T cell receptor alpha vari V_segment_pseu | 0 | 0 | 1 | 1 | 1.119 |
| 28682 | id-TRAV8-4 | **TRAV8-4** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28683 | id-TRAV8-3 | **TRAV8-3** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 0.877 |
| 28684 | id-TRAV8-2 | **TRAV8-2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28685 | id-TRAV8-1 | **TRAV8-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28686 | id-TRAV7 | **TRAV7** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28688 | id-TRAV5 | **TRAV5** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28689 | id-TRAV4 | **TRAV4** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28690 | id-TRAV3 | **TRAV3** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28691 | id-TRAV2 | **TRAV2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28692 | id-TRAV1-2 | **TRAV1-2** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28693 | id-TRAV1-1 | **TRAV1-1** | T cell receptor alpha vari V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28694 | id-TRAJ61 | **TRAJ61** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 28695 | id-TRAJ60 | **TRAJ60** | T cell receptor alpha join J_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28696 | id-TRAJ59 | **TRAJ59** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28697 | id-TRAJ58 | **TRAJ58** | T cell receptor alpha join J_segment | 1 | 1 | 2 | 2 | 1.199 |
| 28698 | id-TRAJ57 | **TRAJ57** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28699 | id-TRAJ56 | **TRAJ56** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28700 | id-TRAJ55 | **TRAJ55** | T cell receptor alpha join J_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28701 | id-TRAJ54 | **TRAJ54** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28702 | id-TRAJ53 | **TRAJ53** | T cell receptor alpha join J_segment | 2 | 2 | 3 | 3 | 0.822 |
| 28703 | id-TRAJ52 | **TRAJ52** | T cell receptor alpha join J_segment | 1 | 1 | 2 | 2 | 0.740 |
| 28704 | id-TRAJ51 | **TRAJ51** | T cell receptor alpha join J_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28705 | id-TRAJ50 | **TRAJ50** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.130 |
| 28706 | id-TRAJ49 | **TRAJ49** | T cell receptor alpha join J_segment | 14 | 8 | 15 | 9 | 0.593 |
| 28707 | id-TRAJ48 | **TRAJ48** | T cell receptor alpha join J_segment | 0 | 1 | 1 | 2 | 1.733 |
| 28708 | id-TRAJ47 | **TRAJ47** | T cell receptor alpha join J_segment | 10 | 8 | 11 | 9 | 0.815 |
| 28709 | id-TRAJ46 | **TRAJ46** | T cell receptor alpha join J_segment | 3 | 2 | 4 | 3 | 0.740 |
| 28710 | id-TRAJ45 | **TRAJ45** | T cell receptor alpha join J_segment | 21 | 21 | 22 | 22 | 1.029 |
| 28711 | id-TRAJ44 | **TRAJ44** | T cell receptor alpha join J_segment | 13 | 13 | 14 | 14 | 1.017 |
| 28712 | id-TRAJ43 | **TRAJ43** | T cell receptor alpha join J_segment | 0 | 2 | 1 | 3 | 2.282 |
| 28713 | id-TRAJ42 | **TRAJ42** | T cell receptor alpha join J_segment | 7 | 4 | 8 | 5 | 0.636 |
| 28714 | id-TRAJ41 | **TRAJ41** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.803 |
| 28715 | id-TRAJ40 | **TRAJ40** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28716 | id-TRAJ39 | **TRAJ39** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.886 |
| 28717 | id-TRAJ38 | **TRAJ38** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28718 | id-TRAJ37 | **TRAJ37** | T cell receptor alpha join J_segment | 1 | 0 | 2 | 1 | 0.603 |
| 28719 | id-TRAJ36 | **TRAJ36** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28720 | id-TRAJ35 | **TRAJ35** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28721 | id-TRAJ34 | **TRAJ34** | T cell receptor alpha join J_segment | 1 | 0 | 2 | 1 | 0.412 |
| 28722 | id-TRAJ33 | **TRAJ33** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.496 |
| 28723 | id-TRAJ32 | **TRAJ32** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.496 |
| 28724 | id-TRAJ31 | **TRAJ31** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28725 | id-TRAJ30 | **TRAJ30** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28726 | id-TRAJ29 | **TRAJ29** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.857 |
| 28727 | id-TRAJ28 | **TRAJ28** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28728 | id-TRAJ27 | **TRAJ27** | T cell receptor alpha join J_segment | 0 | 1 | 1 | 2 | 1.985 |
| 28729 | id-TRAJ26 | **TRAJ26** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28730 | id-TRAJ25 | **TRAJ25** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28731 | id-TRAJ24 | **TRAJ24** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28732 | id-TRAJ23 | **TRAJ23** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28733 | id-TRAJ22 | **TRAJ22** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.457 |
| 28734 | id-TRAJ21 | **TRAJ21** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28735 | id-TRAJ20 | **TRAJ20** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28736 | id-TRAJ19 | **TRAJ19** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28737 | id-TRAJ18 | **TRAJ18** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.880 |
| 28738 | id-TRAJ17 | **TRAJ17** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28739 | id-TRAJ16 | **TRAJ16** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28740 | id-TRAJ15 | **TRAJ15** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28741 | id-TRAJ14 | **TRAJ14** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28742 | id-TRAJ13 | **TRAJ13** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28743 | id-TRAJ12 | **TRAJ12** | T cell receptor alpha join J_segment | 8 | 5 | 9 | 6 | 0.621 |
| 28744 | id-TRAJ11 | **TRAJ11** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28745 | id-TRAJ10 | **TRAJ10** | T cell receptor alpha join J_segment | 1 | 1 | 2 | 2 | 0.830 |
| 28746 | id-TRAJ9 | **TRAJ9** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.732 |
| 28747 | id-TRAJ8 | **TRAJ8** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28748 | id-TRAJ7 | **TRAJ7** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28749 | id-TRAJ6 | **TRAJ6** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28750 | id-TRAJ5 | **TRAJ5** | T cell receptor alpha join J_segment | 0 | 2 | 1 | 3 | 2.778 |
| 28751 | id-TRAJ4 | **TRAJ4** | T cell receptor alpha join J_segment | 0 | 1 | 1 | 2 | 1.646 |
| 28752 | id-TRAJ3 | **TRAJ3** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28753 | id-TRAJ2 | **TRAJ2** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 0.751 |
| 28754 | id-TRAJ1 | **TRAJ1** | T cell receptor alpha join J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28755 | id-TRAC | **TRAC** | T cell receptor alpha con C_region | 75 | 69 | 76 | 70 | 0.914 |
| 28757 | id-IGLVV-66 | **IGLVV-66** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28758 | id-IGLVV-58 | **IGLVV-58** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28759 | id-IGLVIV-65 | **IGLVIV-65** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28760 | id-IGLVIV-64 | **IGLVIV-64** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28761 | id-IGLVIV-59 | **IGLVIV-59** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28762 | id-IGLVIV-53 | **IGLVIV-53** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28763 | id-IGLVI-70 | **IGLVI-70** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28764 | id-IGLVI-68 | **IGLVI-68** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28765 | id-IGLVI-63 | **IGLVI-63** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28766 | id-IGLVI-56 | **IGLVI-56** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28767 | id-IGLVI-42 | **IGLVI-42** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28768 | id-IGLVI-38 | **IGLVI-38** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28769 | id-IGLVI-20 | **IGLVI-20** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28770 | id-IGLV11-55 | **IGLV11-55** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28771 | id-IGLV10-67 | **IGLV10-67** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28772 | id-IGLV10-54 | **IGLV10-54** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28773 | id-IGLV9-49 | **IGLV9-49** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28774 | id-IGLV8-61 | **IGLV8-61** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28775 | id-IGLV7-46 | **IGLV7-46** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28776 | id-IGLV7-43 | **IGLV7-43** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28777 | id-IGLV7-35 | **IGLV7-35** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28778 | id-IGLV6-57 | **IGLV6-57** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28779 | id-IGLV5-52 | **IGLV5-52** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28780 | id-IGLV5-48 | **IGLV5-48** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28781 | id-IGLV5-45 | **IGLV5-45** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28783 | id-IGLV5-37 | **IGLV5-37** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28784 | id-IGLV4-69 | **IGLV4-69** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28785 | id-IGLV4-60 | **IGLV4-60** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28786 | id-IGLV4-3 | **IGLV4-3** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28787 | id-IGLV3-32 | **IGLV3-32** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28788 | id-IGLV3-31 | **IGLV3-31** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28789 | id-IGLV3-30 | **IGLV3-30** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28790 | id-IGLV3-29 | **IGLV3-29** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28791 | id-IGLV3-27 | **IGLV3-27** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28792 | id-IGLV3-26 | **IGLV3-26** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28793 | id-IGLV3-25 | **IGLV3-25** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28794 | id-IGLV3-24 | **IGLV3-24** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28795 | id-IGLV3-22 | **IGLV3-22** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28796 | id-IGLV3-21 | **IGLV3-21** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28797 | id-IGLV3-19 | **IGLV3-19** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28798 | id-IGLV3-17 | **IGLV3-17** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28799 | id-IGLV3-16 | **IGLV3-16** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28800 | id-IGLV3-15 | **IGLV3-15** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28801 | id-IGLV3-13 | **IGLV3-13** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28802 | id-IGLV3-12 | **IGLV3-12** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28803 | id-IGLV3-10 | **IGLV3-10** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28804 | id-IGLV3-9 | **IGLV3-9** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28805 | id-IGLV3-7 | **IGLV3-7** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28806 | id-IGLV3-6 | **IGLV3-6** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28807 | id-IGLV3-4 | **IGLV3-4** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28808 | id-IGLV3-2 | **IGLV3-2** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28809 | id-IGLV3-1 | **IGLV3-1** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28810 | id-IGLV2-34 | **IGLV2-34** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28811 | id-IGLV2-33 | **IGLV2-33** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28812 | id-IGLV2-28 | **IGLV2-28** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28813 | id-IGLV2-23 | **IGLV2-23** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28814 | id-IGLV2-18 | **IGLV2-18** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28815 | id-IGLV2-14 | **IGLV2-14** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28816 | id-IGLV2-11 | **IGLV2-11** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28817 | id-IGLV2-8 | **IGLV2-8** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28818 | id-IGLV2-5 | **IGLV2-5** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28819 | id-IGLV1-62 | **IGLV1-62** | immunoglobulin lambda V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28820 | id-IGLV1-51 | **IGLV1-51** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 0.956 |
| 28821 | id-IGLV1-50 | **IGLV1-50** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28822 | id-IGLV1-47 | **IGLV1-47** | immunoglobulin lambda V_segment | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28823 | id-IGLV1-44 | **IGLV1-44** | immunoglobulin lambda | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28824 | id-IGLV1-41 | **IGLV1-41** | immunoglobulin lambda | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28825 | id-IGLV1-40 | **IGLV1-40** | immunoglobulin lambda | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28826 | id-IGLV1-36 | **IGLV1-36** | immunoglobulin lambda | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28827 | id-IGLJ7 | **IGLJ7** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28828 | id-IGLJ6 | **IGLJ6** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28829 | id-IGLJ5 | **IGLJ5** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28830 | id-IGLJ4 | **IGLJ4** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28831 | id-IGLJ3 | **IGLJ3** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28832 | id-IGLJ2 | **IGLJ2** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28833 | id-IGLJ1 | **IGLJ1** | immunoglobulin lambda | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28834 | id-IGLC7 | **IGLC7** | immunoglobulin lambda | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 28869 | id-IGKV6D-41 | **IGKV6D-41** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28870 | id-IGKV6D-21 | **IGKV6D-21** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28871 | id-IGKV3D-34 | **IGKV3D-34** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28872 | id-IGKV3D-31 | **IGKV3D-31** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28873 | id-IGKV3D-25 | **IGKV3D-25** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28874 | id-IGKV3D-20 | **IGKV3D-20** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28875 | id-IGKV3D-15 | **IGKV3D-15** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28876 | id-IGKV3D-11 | **IGKV3D-11** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28877 | id-IGKV3D-7 | **IGKV3D-7** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28878 | id-IGKV2D-40 | **IGKV2D-40** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28879 | id-IGKV2D-38 | **IGKV2D-38** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28880 | id-IGKV2D-36 | **IGKV2D-36** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28881 | id-IGKV2D-30 | **IGKV2D-30** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28882 | id-IGKV2D-29 | **IGKV2D-29** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28883 | id-IGKV2D-28 | **IGKV2D-28** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28884 | id-IGKV2D-26 | **IGKV2D-26** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28885 | id-IGKV2D-24 | **IGKV2D-24** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28886 | id-IGKV2D-23 | **IGKV2D-23** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28887 | id-IGKV2D-19 | **IGKV2D-19** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28888 | id-IGKV2D-18 | **IGKV2D-18** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28889 | id-IGKV2D-14 | **IGKV2D-14** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28890 | id-IGKV2D-10 | **IGKV2D-10** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28891 | id-IGKV1D-43 | **IGKV1D-43** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28892 | id-IGKV1D-42 | **IGKV1D-42** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28893 | id-IGKV1D-39 | **IGKV1D-39** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28894 | id-IGKV1D-37 | **IGKV1D-37** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28895 | id-IGKV1D-35 | **IGKV1D-35** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28896 | id-IGKV1D-33 | **IGKV1D-33** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28897 | id-IGKV1D-32 | **IGKV1D-32** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28898 | id-IGKV1D-27 | **IGKV1D-27** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28899 | id-IGKV1D-22 | **IGKV1D-22** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28900 | id-IGKV1D-17 | **IGKV1D-17** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28901 | id-IGKV1D-16 | **IGKV1D-16** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28902 | id-IGKV1D-13 | **IGKV1D-13** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28903 | id-IGKV1D-12 | **IGKV1D-12** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28904 | id-IGKV1D-8 | **IGKV1D-8** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28905 | id-IGKV7-3 | **IGKV7-3** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28906 | id-IGKV6-21 | **IGKV6-21** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28907 | id-IGKV5-2 | **IGKV5-2** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28908 | id-IGKV4-1 | **IGKV4-1** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28909 | id-IGKV3-34 | **IGKV3-34** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28910 | id-IGKV3-31 | **IGKV3-31** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28911 | id-IGKV3-25 | **IGKV3-25** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28912 | id-IGKV3-20 | **IGKV3-20** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28913 | id-IGKV3-15 | **IGKV3-15** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28914 | id-IGKV3-11 | **IGKV3-11** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28915 | id-IGKV3-7 | **IGKV3-7** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28916 | id-IGKV2-40 | **IGKV2-40** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28917 | id-IGKV2-38 | **IGKV2-38** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28918 | id-IGKV2-36 | **IGKV2-36** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28919 | id-IGKV2-30 | **IGKV2-30** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28920 | id-IGKV2-29 | **IGKV2-29** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28921 | id-IGKV2-28 | **IGKV2-28** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28922 | id-IGKV2-26 | **IGKV2-26** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28923 | id-IGKV2-24 | **IGKV2-24** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28924 | id-IGKV2-23 | **IGKV2-23** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28925 | id-IGKV2-19 | **IGKV2-19** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28926 | id-IGKV2-18 | **IGKV2-18** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28927 | id-IGKV2-14 | **IGKV2-14** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28928 | id-IGKV2-10 | **IGKV2-10** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28929 | id-IGKV2-4 | **IGKV2-4** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28930 | id-IGKV1-39 | **IGKV1-39** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28931 | id-IGKV1-37 | **IGKV1-37** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28932 | id-IGKV1-35 | **IGKV1-35** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28933 | id-IGKV1-33 | **IGKV1-33** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28934 | id-IGKV1-32 | **IGKV1-32** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28935 | id-IGKV1-27 | **IGKV1-27** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28936 | id-IGKV1-22 | **IGKV1-22** | immunoglobulin kappa v | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 28937 | id-IGKV1-17 | **IGKV1-17** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28938 | id-IGKV1-16 | **IGKV1-16** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28939 | id-IGKV1-13 | **IGKV1-13** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28940 | id-IGKV1-12 | **IGKV1-12** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28941 | id-IGKV1-9 | **IGKV1-9** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28942 | id-IGKV1-8 | **IGKV1-8** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28943 | id-IGKV1-6 | **IGKV1-6** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28946 | id-IGKJ5 | **IGKJ5** | immunoglobulin kappa jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28947 | id-IGKJ4 | **IGKJ4** | immunoglobulin kappa jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28948 | id-IGKJ3 | **IGKJ3** | immunoglobulin kappa jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28949 | id-IGKJ2 | **IGKJ2** | immunoglobulin kappa jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28950 | id-IGKJ1 | **IGKJ1** | immunoglobulin kappa jc | J_segment | 0 | 0 | 1 | 1 | 1.000 |
| 28951 | NM_021643,NR_02 | **TRIB2** | tribbles pseudokinase 2 | protein_coding | 11 | 9 | 12 | 10 | 0.838 |
| 28952 | NM_014008,XM_00 | **CCDC22** | coiled-coil domain contai | protein_coding | 14 | 16 | 15 | 17 | 1.126 |
| 28954 | NM_014012,XM_00 | **REM1** | RRAD and GEM like GTI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28955 | NM_014015 | **DEXI** | Dexi homolog | protein_coding | 3 | 4 | 4 | 5 | 1.451 |
| 28956 | NM_001145264,NM | **LAMTOR2** | late endosomal/lysosom | protein_coding | 117 | 124 | 118 | 125 | 1.058 |
| 28957 | NM_014018 | **MRPS28** | mitochondrial ribosomal | protein_coding | 88 | 82 | 89 | 83 | 0.939 |
| 28958 | NM_001040431 | **COA3** | cytochrome c oxidase as | protein_coding | 113 | 112 | 114 | 113 | 0.985 |
| 28959 | NM_001101311,NM | **TMEM176B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28960 | NM_001350236,NM | **DCPS** | decapping enzyme, scav | protein_coding | 30 | 31 | 31 | 32 | 1.034 |
| 28962 | NM_014028,XR_94 | **OSTM1** | osteoclastogenesis asso | protein_coding | 29 | 25 | 30 | 26 | 0.857 |
| 28964 | NM_001085454,NM | **GIT1** | GIT ArfGAP 1 | protein_coding | 67 | 56 | 68 | 57 | 0.837 |
| 28965 | NM_001017372,NM | **SLC27A6** | solute carrier family 27 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28966 | NM_014035,NR_14 | **SNX24** | sorting nexin 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28968 | NM_014037,XM_00 | **SLC6A16** | solute carrier family 6 me | protein_coding | 1 | 1 | 2 | 2 | 1.026 |
| 28969 | NM_001159767,NM | **BZW2** | basic leucine zipper and | protein_coding | 134 | 140 | 135 | 141 | 1.044 |
| 28970 | NM_001286067,NM | **C11orf54** | chromosome 11 open rea | protein_coding | 14 | 10 | 15 | 11 | 0.741 |
| 28971 | NM_001316957,NM | **AAMDC** | adipogenesis associated | protein_coding | 20 | 16 | 21 | 17 | 0.791 |
| 28972 | NM_014041 | **SPCS1** | signal peptidase comple | protein_coding | 56 | 55 | 57 | 56 | 0.984 |
| 28973 | NM_014046,XM_02 | **MRPS18B** | mitochondrial ribosomal | protein_coding | 137 | 129 | 138 | 130 | 0.942 |
| 28974 | NM_014047 | **C19orf53** | chromosome 19 open rea | protein_coding | 165 | 192 | 166 | 193 | 1.162 |
| 28976 | NM_014049,NR_03 | **ACAD9** | acyl-CoA dehydrogenase | protein_coding | 68 | 62 | 69 | 63 | 0.919 |
| 28977 | NM_014050,NM_17 | **MRPL42** | mitochondrial ribosomal | protein_coding | 16 | 14 | 17 | 15 | 0.872 |
| 28978 | NM_014051,XM_02 | **TMEM14A** | transmembrane protein 1 | protein_coding | 65 | 63 | 66 | 64 | 0.965 |
| 28981 | NM_001143779,NM | **IFT81** | intraflagellar transport 81 | protein_coding | 11 | 8 | 12 | 9 | 0.751 |
| 28982 | NM_014053,XM_01 | **FLVCR1** | FLVCR heme transporter | protein_coding | 16 | 16 | 17 | 17 | 0.993 |
| 28983 | NM_014058,XM_01 | **TMPRSS11E** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28984 | NM_014059,XR_00 | **RGCC** | regulator of cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28985 | NM_001137554,NM | **MCTS1** | MCTS1 re-initiation and r | protein_coding | 17 | 14 | 18 | 15 | 0.855 |
| 28986 | NM_014061 | **MAGEH1** | MAGE family member H | protein_coding | 2 | 3 | 3 | 4 | 1.096 |
| 28987 | NM_014062,NR_07 | **NOB1** | NIN1 (RPN12) binding pr | protein_coding | 129 | 145 | 130 | 146 | 1.118 |
| 28988 | NM_001014436,NM | **DBNL** | drebrin like | protein_coding | 26 | 32 | 27 | 33 | 1.244 |
| 28989 | NM_001286796,NM | **NTMT1** | N-terminal Xaa-Pro-Lys N | protein_coding | 41 | 37 | 42 | 38 | 0.900 |
| 28990 | NM_001288950,NM | **ASTE1** | asteroid homolog 1 | protein_coding | 11 | 11 | 12 | 12 | 0.994 |
| 28991 | NM_001081003,NM | **COMMD5** | COMM domain containin | protein_coding | 24 | 22 | 25 | 23 | 0.931 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 28992 | NM_014067,XM_005 | **MACROD1** | mono-ADP ribosylhydrol | protein_coding | 4 | 3 | 5 | 4 | 0.853 |
| 28996 | NM_001113239,NM | **HIPK2** | homeodomain interactin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 28998 | NM_014078 | **MRPL13** | mitochondrial ribosomal | protein_coding | 163 | 150 | 164 | 151 | 0.922 |
| 28999 | NM_014079,XM_005 | **KLF15** | Kruppel like factor 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29015 | NM_001278201,NM | **SLC43A3** | solute carrier family 43 m | protein_coding | 460 | 465 | 461 | 466 | 1.012 |
| 29018 | NR_024620 | **FOXN3-AS2** | FOXN3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 29028 | NM_014109,XM_01 | **ATAD2** | ATPase family AAA dom | protein_coding | 134 | 115 | 135 | 116 | 0.862 |
| 29034 | NR_002763 | **CPS1-IT1** | CPS1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 29035 | NM_014117,XM_01 | **C16orf72** | chromosome 16 open re | protein_coding | 56 | 56 | 57 | 57 | 0.992 |
| 29057 | NM_001242489,NM | **FAM156A** | family with sequence sim | protein_coding | 14 | 16 | 15 | 17 | 1.123 |
| 29058 | NM_001009923,NM | **TMEM230** | transmembrane protein 2 | protein_coding | 179 | 166 | 180 | 167 | 0.925 |
| 29062 | NM_001362736,NM | **WDR91** | WD repeat domain 91 | protein_coding | 3 | 3 | 4 | 4 | 1.110 |
| 29063 | NM_001318148,NM | **ZCCHC4** | zinc finger CCHC-type co | protein_coding | 17 | 16 | 18 | 17 | 0.918 |
| 29065 | NR_002765 | **ASAP1-IT1** | ASAP1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 29066 | NM_014153,XM_00 | **ZC3H7A** | zinc finger CCCH-type co | protein_coding | 43 | 38 | 44 | 39 | 0.882 |
| 29068 | NM_001301098,NM | **ZBTB44** | zinc finger and BTB dom | protein_coding | 18 | 15 | 19 | 16 | 0.854 |
| 29070 | NM_001142302,NM | **CCDC113** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.067 |
| 29071 | NM_001011551,NM | **C1GALT1C1** | C1GALT1 specific chape | protein_coding | 18 | 18 | 19 | 19 | 0.975 |
| 29072 | NM_001349370,NM | **SETD2** | SET domain containing 2 | protein_coding | 39 | 31 | 40 | 32 | 0.810 |
| 29074 | NM_001318817,NM | **MRPL18** | mitochondrial ribosomal | protein_coding | 214 | 214 | 215 | 215 | 0.998 |
| 29075 | NR_026883,NR_02 | **LINC00652** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.147 |
| 29078 | NM_014165 | **NDUFAF4** | NADH:ubiquinone oxidor | protein_coding | 39 | 36 | 40 | 37 | 0.931 |
| 29079 | NM_001270629,NM | **MED4** | mediator complex subun | protein_coding | 81 | 80 | 82 | 81 | 0.984 |
| 29080 | NM_014167,NR_03 | **CCDC59** | coiled-coil domain contai | protein_coding | 55 | 55 | 56 | 56 | 1.012 |
| 29081 | NM_001293186,NM | **METTL5** | methyltransferase like 5 | protein_coding | 180 | 182 | 181 | 183 | 1.010 |
| 29082 | NM_014169 | **CHMP4A** | charged multivesicular b | protein_coding | 90 | 97 | 91 | 98 | 1.078 |
| 29083 | NM_014170,NM_13 | **GTPBP8** | GTP binding protein 8 (p | protein_coding | 99 | 87 | 100 | 88 | 0.885 |
| 29085 | NM_001135861,NM | **PHPT1** | phosphohistidine phosph | protein_coding | 93 | 90 | 94 | 91 | 0.968 |
| 29086 | NM_001033549,NM | **BABAM1** | BRISC and BRCA1 A co | protein_coding | 159 | 164 | 160 | 165 | 1.029 |
| 29087 | NM_001037304,NM | **THYN1** | thymocyte nuclear protei | protein_coding | 153 | 155 | 154 | 156 | 1.012 |
| 29088 | NM_014175,XM_01 | **MRPL15** | mitochondrial ribosomal | protein_coding | 166 | 165 | 167 | 166 | 0.989 |
| 29089 | NM_001310326,NM | **UBE2T** | ubiquitin conjugating en | protein_coding | 164 | 166 | 165 | 167 | 1.009 |
| 29090 | NM_014177,XM_00 | **TIMM21** | translocase of inner mito | protein_coding | 48 | 47 | 49 | 48 | 0.970 |
| 29091 | NM_001304476,NM | **STXBP6** | syntaxin binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 29092 | NR_023918,NR_02 | **LINC00339** | long intergenic non-prote | lncRNA | 6 | 11 | 7 | 12 | 1.616 |
| 29093 | NM_001014990,NM | **MRPL22** | mitochondrial ribosomal | protein_coding | 36 | 38 | 37 | 39 | 1.056 |
| 29094 | NM_014181 | **LGALSL** | galectin like | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 29095 | NM_014182 | **ORMDL2** | ORMDL sphingolipid bio | protein_coding | 24 | 24 | 25 | 25 | 0.979 |
| 29097 | NM_001277197,NM | **CNIH4** | cornichon family AMPA r | protein_coding | 15 | 14 | 16 | 15 | 0.941 |
| 29098 | NM_001177801,NM | **RANGRF** | RAN guanine nucleotide | protein_coding | 61 | 54 | 62 | 55 | 0.885 |
| 29099 | NM_001101653,NM | **COMMD9** | COMM domain containin | protein_coding | 25 | 26 | 26 | 27 | 1.017 |
| 29100 | NM_001318217,NM | **TMEM208** | transmembrane protein 2 | protein_coding | 89 | 89 | 90 | 90 | 1.006 |
| 29101 | NM_014188 | **SSU72** | SSU72 homolog, RNA p | protein_coding | 158 | 167 | 159 | 168 | 1.055 |
| 29102 | NM_001100412,NM | **DROSHA** | drosha ribonuclease III | protein_coding | 40 | 36 | 41 | 37 | 0.901 |
| 29103 | NM_013238 | **DNAJC15** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 29104 | NM_013240,NM_18 | **N6AMT1** | N-6 adenine-specific DN | protein_coding | 10 | 8 | 11 | 9 | 0.780 |
| 29105 | NM_013242,NR_13 | **CFAP20** | cilia and flagella associa | protein_coding | 76 | 74 | 77 | 75 | 0.972 |
| 29106 | NM_001165257,NM | **SCG3** | secretogranin III | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29107 | NM_013248 | **NXT1** | nuclear transport factor 2 | protein_coding | 85 | 88 | 86 | 89 | 1.032 |
| 29108 | NM_013258,NM_14 | **PYCARD** | PYD and CARD domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29109 | NM_001318202,NM | **FHOD1** | formin homology 2 doma | protein_coding | 28 | 28 | 29 | 29 | 0.992 |
| 29110 | NM_013254,XM_00 | **TBK1** | TANK binding kinase 1 | protein_coding | 49 | 41 | 50 | 42 | 0.842 |
| 29113 | NM_014070 | **C6orf15** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29114 | NM_001008272,NM | **TAGLN3** | transgelin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29115 | NM_001301839,NM | **SAP30BP** | SAP30 binding protein | protein_coding | 62 | 64 | 63 | 65 | 1.042 |
| 29116 | NM_013262,XM_00 | **MYLIP** | myosin regulatory light c | protein_coding | 4 | 5 | 5 | 6 | 1.245 |
| 29117 | NM_001173984,NM | **BRD7** | bromodomain containing | protein_coding | 64 | 64 | 65 | 65 | 1.005 |
| 29118 | NM_001330438,NM | **DDX25** | DEAD-box helicase 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29119 | NM_001127384,NM | **CTNNA3** | catenin alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29121 | NM_001004419,NM | **CLEC2D** | C-type lectin domain fam | protein_coding | 33 | 30 | 34 | 31 | 0.918 |
| 29122 | NM_013270 | **PRSS50** | serine protease 50 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29123 | NM_001256182,NM | **ANKRD11** | ankyrin repeat domain 1 | protein_coding | 27 | 24 | 28 | 25 | 0.889 |
| 29124 | NM_013268,XM_01 | **LGALS13** | galectin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29125 | NM_001142946,NM | **C11orf21** | chromosome 11 open re | protein_coding | 2 | 3 | 3 | 4 | 1.203 |
| 29126 | NM_001267706,NM | **CD274** | CD274 molecule | protein_coding | 2 | 1 | 3 | 2 | 0.739 |
| 29127 | NM_001126103,NM | **RACGAP1** | Rac GTPase activating p | protein_coding | 124 | 117 | 125 | 118 | 0.946 |
| 29128 | NM_001048201,NM | **UHRF1** | ubiquitin like with PHD a | protein_coding | 91 | 96 | 92 | 97 | 1.057 |
| 29760 | NM_001114094,NM | **BLNK** | B cell linker | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 29761 | NM_001283041,NM | **USP25** | ubiquitin specific peptida | protein_coding | 27 | 24 | 28 | 25 | 0.883 |
| 29763 | NM_001184974,NM | **PACSIN3** | protein kinase C and cas | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 29765 | NM_013353,XM_01 | **TMOD4** | tropomodulin 4 | protein_coding | 1 | 1 | 2 | 2 | 1.135 |
| 29766 | NM_014547,XM_01 | **TMOD3** | tropomodulin 3 | protein_coding | 40 | 29 | 41 | 30 | 0.737 |
| 29767 | NM_001142885,NM | **TMOD2** | tropomodulin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 29768 | gene-SDHDP6 | **SDHDP6** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 0.886 |
| 29769 | gene-SDHDP5 | **SDHDP5** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 29770 | gene-SDHDP4 | **SDHDP4** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 29771 | gene-SDHDP3 | **SDHDP3** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 29774 | NR_003714 | **POM121L9P** | POM121 transmembrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 29775 | NM_014550 | **CARD10** | caspase recruitment dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29777 | NM_013375 | **ABT1** | activator of basal transcr | protein_coding | 85 | 91 | 86 | 92 | 1.063 |
| 29778 | gene-MAP2K1P1 | **MAP2K1P1** | mitogen-activated protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 29780 | NM_001003828,NM | **PARVB** | parvin beta | protein_coding | 12 | 14 | 13 | 15 | 1.152 |
| 29781 | NM_001185011,NM | **NCAPH2** | non-SMC condensin II co | protein_coding | 79 | 85 | 80 | 86 | 1.067 |
| 29785 | NM_030622,XR_93 | **CYP2S1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29789 | NM_001011708,NM | **OLA1** | Obg like ATPase 1 | protein_coding | 132 | 117 | 133 | 118 | 0.887 |
| 29796 | NM_001003684,NM | **UQCR10** | ubiquinol-cytochrome c r | protein_coding | 188 | 203 | 189 | 204 | 1.082 |
| 29797 | NR_024583 | **POM121L8P** | POM121 transmembrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 29798 | NR_149013,NR_14 | **C2orf27A** | chromosome 2 open rea | lncRNA | 8 | 6 | 9 | 7 | 0.777 |
| 29799 | NM_013313,NR_13 | **YPEL1** | yippee like 1 | protein_coding | 5 | 4 | 6 | 5 | 0.914 |
| 29800 | NM_001323627,NM | **ZDHHC1** | zinc finger DHHC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29801 | NM_001185024,NM | **ZDHHC8** | zinc finger DHHC-type pa | protein_coding | 11 | 11 | 12 | 12 | 0.989 |
| 29802 | NM_013378 | **VPREB3** | V-set pre-B cell surrogat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29803 | NM_001099695,NM | **REPIN1** | replication initiator 1 | protein_coding | 58 | 53 | 59 | 54 | 0.914 |
| 29841 | NM_198182,XM_00 | **GRHL1** | grainyhead like transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29842 | NM_014553,XM_01 | **TFCP2L1** | transcription factor CP2 l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29843 | NM_001267594,NM | **SENP1** | SUMO specific peptidase | protein_coding | 43 | 39 | 44 | 40 | 0.911 |
| 29844 | NM_001321792,NM | **TFPT** | TCF3 fusion partner | protein_coding | 45 | 51 | 46 | 52 | 1.122 |
| 29850 | NM_014555,XM_01 | **TRPM5** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29851 | NM_012092 | **ICOS** | inducible T cell costimula | protein_coding | 67 | 58 | 68 | 59 | 0.858 |
| 29855 | NM_001079514,NM | **UBN1** | ubinuclein 1 | protein_coding | 51 | 45 | 52 | 46 | 0.886 |
| 29880 | NM_001142364,NM | **ALG5** | ALG5 dolichyl-phosphate | protein_coding | 95 | 83 | 96 | 84 | 0.875 |
| 29881 | NM_001101648,NM | **NPC1L1** | NPC1 like intracellular ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29882 | NM_013366,XR_92 | **ANAPC2** | anaphase promoting con | protein_coding | 26 | 28 | 27 | 29 | 1.091 |
| 29883 | NM_001322087,NM | **CNOT7** | CCR4-NOT transcription | protein_coding | 38 | 33 | 39 | 34 | 0.872 |
| 29886 | NM_013321,XM_01 | **SNX8** | sorting nexin 8 | protein_coding | 13 | 11 | 14 | 12 | 0.873 |
| 29887 | NM_001199835,NM | **SNX10** | sorting nexin 10 | protein_coding | 65 | 57 | 66 | 58 | 0.869 |
| 29888 | NM_001039877,NM | **STRN4** | striatin 4 | protein_coding | 94 | 95 | 95 | 96 | 1.009 |
| 29889 | NM_001323623,NM | **GNL2** | G protein nucleolar 2 | protein_coding | 145 | 133 | 146 | 134 | 0.921 |
| 29890 | NM_013286 | **RBM15B** | RNA binding motif protei | protein_coding | 28 | 28 | 29 | 29 | 1.019 |
| 29893 | NM_001256014,NM | **PSMC3IP** | PSMC3 interacting prote | protein_coding | 51 | 57 | 52 | 58 | 1.106 |
| 29894 | NM_013291,XM_00 | **CPSF1** | cleavage and polyadenyl | protein_coding | 27 | 29 | 28 | 30 | 1.056 |
| 29895 | NM_001324458,NM | **MYLPF** | myosin light chain, phos | protein_coding | 0 | 0 | 1 | 1 | 0.754 |
| 29896 | NM_001282757,NM | **TRA2A** | transformer 2 alpha hom | protein_coding | 109 | 102 | 110 | 103 | 0.935 |
| 29899 | NM_001321038,NM | **GPSM2** | G protein signaling modu | protein_coding | 14 | 11 | 15 | 12 | 0.790 |
| 29901 | NM_001367485,NM | **SAC3D1** | SAC3 domain containing | protein_coding | 23 | 23 | 24 | 24 | 1.007 |
| 29902 | NM_013300,XM_00 | **FAM216A** | family with sequence sim | protein_coding | 79 | 84 | 80 | 85 | 1.056 |
| 29903 | NM_001370467,NM | **CCDC106** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 1.254 |
| 29904 | NM_013302,XM_01 | **EEF2K** | eukaryotic elongation fac | protein_coding | 11 | 10 | 12 | 11 | 0.895 |
| 29906 | NM_001307986,NM | **ST8SIA5** | ST8 alpha-N-acetyl-neur | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29907 | NM_013306,NM_14 | **SNX15** | sorting nexin 15 | protein_coding | 10 | 11 | 11 | 12 | 1.095 |
| 29909 | NM_013308,XM_00 | **GPR171** | G protein-coupled recep | protein_coding | 2 | 3 | 3 | 4 | 1.299 |
| 29911 | NM_001100176,NM | **HOOK2** | hook microtubule tetherin | protein_coding | 2 | 2 | 3 | 3 | 1.028 |
| 29914 | NM_001330349,NM | **UBIAD1** | UbiA prenyltransferase d | protein_coding | 41 | 41 | 42 | 42 | 1.009 |
| 29915 | NM_013320,XM_01 | **HCFC2** | host cell factor C2 | protein_coding | 7 | 6 | 8 | 7 | 0.800 |
| 29916 | NM_001330320,NM | **SNX11** | sorting nexin 11 | protein_coding | 23 | 24 | 24 | 25 | 1.043 |
| 29919 | NM_001276342,NM | **RMC1** | regulator of MON1-CCZ1 | protein_coding | 42 | 40 | 43 | 41 | 0.952 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 29920 | NM_001271681,NM | **PYCR2** | pyrroline-5-carboxylate r | protein_coding | 100 | 108 | 101 | 109 | 1.080 |
| 29922 | NM_013330,NM_19 | **NME7** | NME/NM23 family memb | protein_coding | 11 | 11 | 12 | 12 | 1.017 |
| 29923 | NM_001098786,NM | **HILPDA** | hypoxia inducible lipid dr | protein_coding | 15 | 14 | 16 | 15 | 0.917 |
| 29924 | NM_001130071,NM | **EPN1** | epsin 1 | protein_coding | 70 | 72 | 71 | 73 | 1.038 |
| 29925 | NM_013334,NM_02 | **GMPPB** | GDP-mannose pyrophos | protein_coding | 26 | 26 | 27 | 27 | 1.032 |
| 29926 | NM_001374294,NM | **GMPPA** | GDP-mannose pyrophos | protein_coding | 36 | 39 | 37 | 40 | 1.084 |
| 29927 | NM_013336 | **SEC61A1** | SEC61 translocon subur | protein_coding | 232 | 232 | 233 | 233 | 1.001 |
| 29928 | NM_013337 | **TIMM22** | translocase of inner mito | protein_coding | 11 | 12 | 12 | 13 | 1.053 |
| 29929 | NM_013339 | **ALG6** | ALG6 alpha-1,3-glucosyl | protein_coding | 12 | 12 | 13 | 13 | 0.939 |
| 29930 | NM_013340 | **PCDHB1** | protocadherin beta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29931 | NR_024065 | **LINC00312** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 29933 | NM_001278694,NM | **GPR132** | G protein-coupled recep | protein_coding | 23 | 21 | 24 | 22 | 0.912 |
| 29934 | NM_001256185,NM | **SNX12** | sorting nexin 12 | protein_coding | 50 | 48 | 51 | 49 | 0.960 |
| 29935 | NM_013347 | **RPA4** | replication protein A4 | protein_coding | 1 | 1 | 2 | 2 | 1.271 |
| 29937 | NM_013349,NR_02 | **NENF** | neudesin neurotrophic fa | protein_coding | 13 | 13 | 14 | 14 | 1.002 |
| 29940 | NM_001080976,NM | **DSE** | dermatan sulfate epimer | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 29941 | NM_001317926,NM | **PKN3** | protein kinase N3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29942 | NM_001015508,NM | **PURG** | purine rich element bindi | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 29943 | NM_013358,XM_01 | **PADI1** | peptidyl arginine deimina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29944 | NM_001282535,NM | **PNMA3** | PNMA family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29945 | NM_001286756,NM | **ANAPC4** | anaphase promoting con | protein_coding | 29 | 26 | 30 | 27 | 0.899 |
| 29946 | NM_013368,NM_20 | **SERTAD3** | SERTA domain containir | protein_coding | 6 | 7 | 7 | 8 | 1.152 |
| 29947 | NM_013369,NM_17 | **DNMT3L** | DNA methyltransferase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29948 | NM_182981 | **OSGIN1** | oxidative stress induced | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29949 | NM_001369605,NM | **IL19** | interleukin 19 | protein_coding | 3 | 3 | 4 | 4 | 1.018 |
| 29950 | NM_013376 | **SERTAD1** | SERTA domain containir | protein_coding | 7 | 8 | 8 | 9 | 1.044 |
| 29951 | NM_001164595,NM | **PDZRN4** | PDZ domain containing r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29952 | NM_013379,XM_00 | **DPP7** | dipeptidyl peptidase 7 | protein_coding | 48 | 50 | 49 | 51 | 1.030 |
| 29953 | NM_013381,XM_00 | **TRHDE** | thyrotropin releasing hor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29954 | NM_013382,XM_01 | **POMT2** | protein O-mannosyltrans | protein_coding | 3 | 3 | 4 | 4 | 1.231 |
| 29956 | NM_022075,NM_18 | **CERS2** | ceramide synthase 2 | protein_coding | 202 | 191 | 203 | 192 | 0.944 |
| 29957 | NM_013386,NM_21 | **SLC25A24** | solute carrier family 25 m | protein_coding | 31 | 27 | 32 | 28 | 0.877 |
| 29958 | NM_013391,NR_10 | **DMGDH** | dimethylglycine dehydro | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 29959 | NM_001321357,NM | **NRBP1** | nuclear receptor binding | protein_coding | 51 | 54 | 52 | 55 | 1.045 |
| 29960 | NM_013393 | **MRM2** | mitochondrial rRNA meth | protein_coding | 66 | 71 | 67 | 72 | 1.075 |
| 29964 | NM_013397 | **PRICKLE4** | prickle planar cell polarit | protein_coding | 2 | 2 | 3 | 3 | 1.012 |
| 29965 | NM_001199054,NM | **CDIP1** | cell death inducing p53 t | protein_coding | 54 | 60 | 55 | 61 | 1.110 |
| 29966 | NM_001083893,NM | **STRN3** | striatin 3 | protein_coding | 16 | 18 | 17 | 19 | 1.078 |
| 29967 | NM_001135703,NM | **LRP12** | LDL receptor related prot | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 29968 | NM_021154,NM_05 | **PSAT1** | phosphoserine aminotrar | protein_coding | 63 | 51 | 64 | 52 | 0.811 |
| 29969 | NM_001166345,NM | **MDFIC** | MyoD family inhibitor dor | protein_coding | 48 | 46 | 49 | 47 | 0.959 |
| 29970 | NM_001197107,NM | **SCHIP1** | schwannomin interacting | protein_coding | 18 | 17 | 19 | 18 | 0.957 |
| 29974 | NM_001198818,NM | **A1CF** | APOBEC1 complementa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29978 | NM_013444 | **UBQLN2** | ubiquilin 2 | protein_coding | 22 | 22 | 23 | 23 | 0.998 |
| 29979 | NM_013438,NM_05 | **UBQLN1** | ubiquilin 1 | protein_coding | 62 | 59 | 63 | 60 | 0.941 |
| 29980 | NM_017613 | **DONSON** | DNA replication fork stab | protein_coding | 58 | 58 | 59 | 59 | 0.990 |
| 29982 | NM_001282405,NM | **NRBF2** | nuclear receptor binding | protein_coding | 38 | 31 | 39 | 32 | 0.834 |
| 29984 | NM_001300886,NM | **RHOD** | ras homolog family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29985 | NM_144564,NM_21 | **SLC39A3** | solute carrier family 39 m | protein_coding | 45 | 42 | 46 | 43 | 0.936 |
| 29986 | NM_001256588,NM | **SLC39A2** | solute carrier family 39 m | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 29988 | NM_001271711,NM | **SLC2A8** | solute carrier family 2 me | protein_coding | 13 | 12 | 14 | 13 | 0.923 |
| 29989 | NM_001288987,NM | **OBP2B** | odorant binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29990 | NM_001371931,NM | **PILRB** | paired immunoglobin like | protein_coding | 11 | 8 | 12 | 9 | 0.791 |
| 29991 | NM_001293189,NM | **OBP2A** | odorant binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29992 | NM_013439,NM_17 | **PILRA** | paired immunoglobin like | protein_coding | 2 | 4 | 3 | 5 | 1.388 |
| 29993 | NM_001199583,NM | **PACSIN1** | protein kinase C and cas | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 29994 | NM_001289975,NM | **BAZ2B** | bromodomain adjacent to | protein_coding | 5 | 4 | 6 | 5 | 0.844 |
| 29995 | NM_001278233,NM | **LMCD1** | LIM and cysteine rich dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 29997 | NM_015710 | **NOP53** | NOP53 ribosome biogen | protein_coding | 183 | 177 | 184 | 178 | 0.968 |
| 29998 | NM_015711,XM_00 | **BICRA** | BRD4 interacting chroma | protein_coding | 7 | 7 | 8 | 8 | 1.030 |
| 29999 | NM_020369 | **FSCN3** | fascin actin-bundling pro | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 30000 | NM_001136195,NM | **TNPO2** | transportin 2 | protein_coding | 61 | 56 | 62 | 57 | 0.932 |
| 30001 | NM_001382464,NM | **ERO1A** | endoplasmic reticulum o | protein_coding | 93 | 79 | 94 | 80 | 0.854 |
| 30008 | NM_016938,NR_03 | **EFEMP2** | EGF containing fibulin e | protein_coding | 1 | 0 | 2 | 1 | 0.780 |
| 30009 | NM_013351 | **TBX21** | T-box transcription factor | protein_coding | 299 | 341 | 300 | 342 | 1.141 |
| 30010 | NM_152745 | **NXPH1** | neurexophilin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30011 | NM_001024666,NM | **SH3KBP1** | SH3 domain containing k | protein_coding | 126 | 116 | 127 | 117 | 0.919 |
| 30012 | NM_021025 | **TLX3** | T cell leukemia homeobc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30014 | NM_013453 | **SPANXA1** | sperm protein associatec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30061 | NM_014585,XM_00 | **SLC40A1** | solute carrier family 40 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30062 | NM_013435 | **RAX** | retina and anterior neura | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30811 | NM_014586,XM_01 | **HUNK** | hormonally up-regulated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30812 | NM_014587 | **SOX8** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30813 | NM_001256271,NM | **VSX1** | visual system homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 30814 | NM_014589 | **PLA2G2E** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30815 | NM_001286999,NM | **ST6GALNAC6** | ST6 N-acetylgalactosami | protein_coding | 8 | 7 | 9 | 8 | 0.909 |
| 30816 | NM_001130925,NM | **ERVW-1** | endogenous retrovirus gr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30817 | NM_001271052,NM | **ADGRE2** | adhesion G protein-coup | protein_coding | 1 | 1 | 2 | 2 | 1.117 |
| 30818 | NM_001034914,NM | **KCNIP3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30819 | NM_014591,NM_17 | **KCNIP2** | potassium voltage-gated | protein_coding | 0 | 1 | 1 | 2 | 1.098 |
| 30820 | NM_001034837,NM | **KCNIP1** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30827 | NM_001101654,NM | **CXXC1** | CXXC finger protein 1 | protein_coding | 60 | 59 | 61 | 60 | 0.985 |
| 30832 | NM_014594,XM_01 | **ZNF354C** | zinc finger protein 354C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30833 | NM_001252377,NM | **NT5C** | 5', 3'-nucleotidase, cytos | protein_coding | 52 | 64 | 53 | 65 | 1.234 |
| 30834 | NM_001278785,NM | **POLR1H** | RNA polymerase I subur | protein_coding | 84 | 89 | 85 | 90 | 1.050 |
| 30835 | NM_001144893,NM | **CD209** | CD209 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30836 | NM_014597 | **DNTTIP2** | deoxynucleotidyltransfer | protein_coding | 46 | 44 | 47 | 45 | 0.968 |
| 30837 | NM_014598,XM_01 | **SOCS7** | suppressor of cytokine si | protein_coding | 13 | 11 | 14 | 12 | 0.862 |
| 30844 | NM_139265 | **EHD4** | EH domain containing 4 | protein_coding | 27 | 25 | 28 | 26 | 0.932 |
| 30845 | NM_014600,XM_01 | **EHD3** | EH domain containing 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30846 | NM_014601 | **EHD2** | EH domain containing 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30848 | NM_020994,NM_17 | **CTAG2** | cancer/testis antigen 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 30849 | NM_014602 | **PIK3R4** | phosphoinositide-3-kinas | protein_coding | 28 | 24 | 29 | 25 | 0.870 |
| 30850 | NM_014603,XM_00 | **CDR2L** | cerebellar degeneration r | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 30851 | NM_001204698,NM | **TAX1BP3** | Tax1 binding protein 3 | protein_coding | 7 | 7 | 8 | 8 | 1.026 |
| 30968 | NM_001287031,NM | **STOML2** | stomatin like 2 | protein_coding | 187 | 186 | 188 | 187 | 0.994 |
| 43847 | NM_001311182,NM | **KLK14** | kallikrein related peptida | protein_coding | 0 | 1 | 1 | 2 | 1.349 |
| 43849 | NM_001370125,NM | **KLK12** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 49854 | NM_001098402,NM | **ZBTB21** | zinc finger and BTB dom | protein_coding | 9 | 8 | 10 | 9 | 0.916 |
| 49855 | NM_001145923,NM | **SCAPER** | S-phase cyclin A associa | protein_coding | 14 | 12 | 15 | 13 | 0.872 |
| 49856 | NM_017818,XM_00 | **WRAP73** | WD repeat containing, a | protein_coding | 41 | 42 | 42 | 43 | 1.005 |
| 49860 | NM_016190 | **CRNN** | cornulin | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 49861 | NM_001001346 | **CLDN20** | claudin 20 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50484 | NM_001172477,NM | **RRM2B** | ribonucleotide reductase | protein_coding | 19 | 16 | 20 | 17 | 0.848 |
| 50485 | NM_001127207,NM | **SMARCAL1** | SWI/SNF related, matrix | protein_coding | 25 | 23 | 26 | 24 | 0.918 |
| 50486 | NM_015714 | **G0S2** | G0/G1 switch 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50487 | NM_015715,XM_01 | **PLA2G3** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50488 | NM_001024937,NM | **MINK1** | misshapen like kinase 1 | protein_coding | 17 | 16 | 18 | 17 | 0.939 |
| 50489 | NM_015717,XM_01 | **CD207** | CD207 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50506 | NM_001363711,NM | **DUOX2** | dual oxidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50507 | NM_001143836,NM | **NOX4** | NADPH oxidase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50508 | NM_015718 | **NOX3** | NADPH oxidase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50509 | NM_015719,XM_01 | **COL5A3** | collagen type V alpha 3 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50511 | NM_001177948,NM | **SYCP3** | synaptonemal complex p | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 50512 | NM_015720 | **PODXL2** | podocalyxin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50514 | NR_163556 | **DELEC1** | deleted in esophageal ca | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 50515 | NM_001173982,NM | **CHST11** | carbohydrate sulfotransf | protein_coding | 67 | 65 | 68 | 66 | 0.971 |
| 50516 | gene-PPP1R14BP1 | **PPP1R14BP1** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.099 |
| 50604 | NM_018724,XM_00 | **IL20** | interleukin 20 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50613 | NM_001347096,NM | **UBQLN3** | ubiquilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50614 | NM_001122636,NM | **GALNT9** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50615 | NM_021798,NM_18 | **IL21R** | interleukin 21 receptor | protein_coding | 36 | 35 | 37 | 36 | 0.966 |
| 50616 | NM_020525 | **IL22** | interleukin 22 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50617 | NM_020632,NM_13 | **ATP6V0A4** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50618 | NM_001348181,NM | **ITSN2** | intersectin 2 | protein_coding | 43 | 33 | 44 | 34 | 0.771 |
| 50619 | NM_022047 | **DEF6** | DEF6 guanine nucleotide | protein_coding | 107 | 107 | 108 | 108 | 1.002 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 50624 | NM_022034,NR_03 | **CUZD1** | CUB and zona pellucida | protein_coding | 1 | 1 | 2 | 2 | 0.954 |
| 50626 | NM_001129888,NM | **CYHR1** | cysteine and histidine ric | protein_coding | 4 | 5 | 5 | 6 | 1.065 |
| 50628 | NM_015721,XM_00 | **GEMIN4** | gem nuclear organelle a | protein_coding | 26 | 27 | 27 | 28 | 1.016 |
| 50631 | gene-YBX1P1 | **YBX1P1** | Y-box binding protein 1 p | pseudogene | 11 | 13 | 12 | 14 | 1.173 |
| 50632 | NM_001321617,NM | **CALY** | calcyon neuron specific | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50636 | NM_001001666,NM | **ANO7** | anoctamin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50640 | NM_001256007,NM | **PNPLA8** | patatin like phospholipas | protein_coding | 10 | 9 | 11 | 10 | 0.935 |
| 50649 | NM_001367493,NM | **ARHGEF4** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 50650 | NM_001128615,NM | **ARHGEF3** | Rho guanine nucleotide | protein_coding | 58 | 47 | 59 | 48 | 0.820 |
| 50651 | NM_001080397,NM | **SLC45A1** | solute carrier family 45 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50652 | NR_015342,NR_13 | **PCA3** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 50674 | NM_020999,XM_01 | **NEUROG3** | neurogenin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50700 | NM_015725 | **RDH8** | retinol dehydrogenase 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50717 | NM_015726,NR_02 | **DCAF8** | DDB1 and CUL4 associa | protein_coding | 47 | 48 | 48 | 49 | 1.037 |
| 50801 | NM_001317090,NM | **KCNK4** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50804 | NM_001301210,NM | **MYEF2** | myelin expression factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50805 | NM_001278632,NM | **IRX4** | iroquois homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50807 | NM_001247996,NM | **ASAP1** | ArfGAP with SH3 domair | protein_coding | 14 | 12 | 15 | 13 | 0.899 |
| 50808 | NM_001199852,NM | **AK3** | adenylate kinase 3 | protein_coding | 33 | 27 | 34 | 28 | 0.834 |
| 50809 | NM_001372052,NM | **HP1BP3** | heterochromatin protein | protein_coding | 86 | 71 | 87 | 72 | 0.827 |
| 50810 | NM_016073,XM_00 | **HDGFL3** | HDGF like 3 | protein_coding | 30 | 27 | 31 | 28 | 0.904 |
| 50813 | NM_001164093,NM | **COPS7A** | COP9 signalosome subu | protein_coding | 18 | 19 | 19 | 20 | 1.040 |
| 50814 | NM_001129765,NM | **NSDHL** | NAD(P) dependent stero | protein_coding | 46 | 46 | 47 | 47 | 1.003 |
| 50831 | NM_016943 | **TAS2R3** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 0.766 |
| 50832 | NM_016944 | **TAS2R4** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 50833 | NM_016945 | **TAS2R16** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50834 | NM_019599 | **TAS2R1** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50835 | NM_023917 | **TAS2R9** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50836 | NM_023918 | **TAS2R8** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50837 | NM_023919 | **TAS2R7** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50838 | NM_023920 | **TAS2R13** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 50839 | NM_023921 | **TAS2R10** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 50840 | NM_023922 | **TAS2R14** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 50846 | NM_021044,XM_01 | **DHH** | desert hedgehog signali | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50848 | NM_001348091,NM | **F11R** | F11 receptor | protein_coding | 35 | 32 | 36 | 33 | 0.927 |
| 50852 | NM_001317747,NM | **TRAT1** | T cell receptor associate | protein_coding | 14 | 12 | 15 | 13 | 0.897 |
| 50853 | NM_001370264,NM | **VILL** | villin like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50854 | NR_160945,NR_16 | **SNHG32** | small nucleolar RNA hos | lncRNA | 135 | 141 | 136 | 142 | 1.040 |
| 50855 | NM_001037281,NM | **PARD6A** | par-6 family cell polarity | protein_coding | 20 | 22 | 21 | 23 | 1.083 |
| 50856 | NM_016184,NM_19 | **CLEC4A** | C-type lectin domain fam | protein_coding | 0 | 1 | 1 | 2 | 1.298 |
| 50858 | NR_001538 | **TTTY1** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 50859 | NM_001040159,NM | **SPOCK3** | SPARC (osteonectin), cw | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50861 | NM_001276310,NM | **STMN3** | stathmin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 50862 | NM_016422 | **RNF141** | ring finger protein 141 | protein_coding | 12 | 12 | 13 | 13 | 0.995 |
| 50863 | NM_001048209,NM | **NTM** | neurotrimin | protein_coding | 3 | 3 | 4 | 4 | 0.869 |
| 50865 | NM_015987 | **HEBP1** | heme binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50937 | NM_001243597,NM | **CDON** | cell adhesion associated | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 50939 | NM_016247 | **IMPG2** | interphotoreceptor matrix | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 50940 | NM_001077196,NM | **PDE11A** | phosphodiesterase 11A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50943 | NM_001114377,NM | **FOXP3** | forkhead box P3 | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 50944 | NM_016148,XM_01 | **SHANK1** | SH3 and multiple ankyrir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50945 | NM_001109878,NM | **TBX22** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50964 | NM_025237 | **SOST** | sclerostin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 50999 | NM_001167830,NM | **TMED5** | transmembrane p24 traff | protein_coding | 60 | 53 | 61 | 54 | 0.886 |
| 51000 | NM_001142540,NM | **SLC35B3** | solute carrier family 35 m | protein_coding | 17 | 17 | 18 | 18 | 1.007 |
| 51001 | NM_001286643,NM | **MTERF3** | mitochondrial transcriptic | protein_coding | 56 | 58 | 57 | 59 | 1.025 |
| 51002 | NM_001330386,NM | **TPRKB** | TP53RK binding protein | protein_coding | 148 | 141 | 149 | 142 | 0.956 |
| 51003 | NM_016060 | **MED31** | mediator complex subun | protein_coding | 4 | 3 | 5 | 4 | 0.946 |
| 51004 | NM_182476,NM_18 | **COQ6** | coenzyme Q6, monooxyg | protein_coding | 9 | 11 | 10 | 12 | 1.199 |
| 51005 | NM_001145815,NM | **AMDHD2** | amidohydrolase domain | protein_coding | 11 | 12 | 12 | 13 | 1.059 |
| 51006 | NM_001281457,NM | **SLC35C2** | solute carrier family 35 m | protein_coding | 33 | 39 | 34 | 40 | 1.182 |
| 51008 | NM_001198798,NM | **ASCC1** | activating signal cointegr | protein_coding | 25 | 21 | 26 | 22 | 0.853 |
| 51009 | NM_001304777,NM | **DERL2** | derlin 2 | protein_coding | 14 | 14 | 15 | 15 | 0.958 |
| 51010 | NM_001002269,NM | **EXOSC3** | exosome component 3 | protein_coding | 70 | 67 | 71 | 68 | 0.955 |
| 51011 | NM_016044,XM_01 | **FAHD2A** | fumarylacetoacetate hyd | protein_coding | 15 | 15 | 16 | 16 | 0.998 |
| 51012 | NM_001256403,NM | **PRELID3B** | PRELI domain containing | protein_coding | 324 | 289 | 325 | 290 | 0.894 |
| 51013 | NM_001318362,NM | **EXOSC1** | exosome component 1 | protein_coding | 63 | 73 | 64 | 74 | 1.156 |
| 51014 | NM_181836 | **TMED7** | transmembrane p24 traff | protein_coding | 48 | 42 | 49 | 43 | 0.874 |
| 51015 | NM_016048 | **ISOC1** | isochorismatase domain | protein_coding | 50 | 50 | 51 | 51 | 1.001 |
| 51016 | NM_001346874,NM | **EMC9** | ER membrane protein cc | protein_coding | 22 | 27 | 23 | 28 | 1.213 |
| 51018 | NM_016052,XM_01 | **RRP15** | ribosomal RNA processir | protein_coding | 18 | 17 | 19 | 18 | 0.935 |
| 51019 | NM_001301107,NM | **WASHC3** | WASH complex subunit | protein_coding | 43 | 47 | 44 | 48 | 1.087 |
| 51020 | NM_016063,XM_02 | **HDDC2** | HD domain containing 2 | protein_coding | 86 | 82 | 87 | 83 | 0.955 |
| 51021 | NM_016065 | **MRPS16** | mitochondrial ribosomal | protein_coding | 100 | 93 | 101 | 94 | 0.929 |
| 51022 | NM_001243399,NM | **GLRX2** | glutaredoxin 2 | protein_coding | 49 | 48 | 50 | 49 | 0.978 |
| 51023 | NM_001297767,NM | **MRPS18C** | mitochondrial ribosomal | protein_coding | 61 | 64 | 62 | 65 | 1.058 |
| 51024 | NM_016068 | **FIS1** | fission, mitochondrial 1 | protein_coding | 99 | 112 | 100 | 113 | 1.133 |
| 51025 | NM_016069 | **PAM16** | presequence translocase | protein_coding | 86 | 79 | 87 | 80 | 0.919 |
| 51026 | NM_016072,XM_02 | **GOLT1B** | golgi transport 1B | protein_coding | 30 | 27 | 31 | 28 | 0.888 |
| 51027 | NM_001321025,NM | **BOLA1** | bolA family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51028 | NM_001282168,NM | **VPS36** | vacuolar protein sorting 3 | protein_coding | 29 | 28 | 30 | 29 | 0.959 |
| 51029 | NM_001297746,NM | **DESI2** | desumoylating isopeptid | protein_coding | 45 | 38 | 46 | 39 | 0.848 |
| 51030 | NM_001316919,NM | **TVP23B** | trans-golgi network vesic | protein_coding | 19 | 18 | 20 | 19 | 0.920 |
| 51031 | NM_001366247,NM | **GLOD4** | glyoxalase domain conta | protein_coding | 47 | 46 | 48 | 47 | 0.983 |
| 51032 | NM_015849 | **CELA2B** | chymotrypsin like elastas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51035 | NM_001286077,NM | **UBXN1** | UBX domain protein 1 | protein_coding | 160 | 158 | 161 | 159 | 0.992 |
| 51042 | NM_015871 | **ZNF593** | zinc finger protein 593 | protein_coding | 140 | 142 | 141 | 143 | 1.012 |
| 51043 | NM_001252406,NM | **ZBTB7B** | zinc finger and BTB dom | protein_coding | 10 | 9 | 11 | 10 | 0.907 |
| 51046 | NM_015879 | **ST8SIA3** | ST8 alpha-N-acetyl-neur | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51050 | NM_001324403,NM | **PI15** | peptidase inhibitor 15 | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 51052 | NM_015893 | **PRLH** | prolactin releasing horme | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51053 | NM_001251989,NM | **GMNN** | geminin DNA replication | protein_coding | 121 | 123 | 122 | 124 | 1.018 |
| 51054 | NR_037144 | **PLEKHA8P1** | pleckstrin homology dom | transcribed_pseu | 2 | 3 | 3 | 4 | 1.307 |
| 51056 | NM_015907 | **LAP3** | leucine aminopeptidase 3 | protein_coding | 314 | 289 | 315 | 290 | 0.920 |
| 51057 | NM_001042692,NM | **WDPCP** | WD repeat containing pla | protein_coding | 2 | 1 | 3 | 2 | 0.864 |
| 51058 | NM_001242739,NM | **ZNF691** | zinc finger protein 691 | protein_coding | 9 | 11 | 10 | 12 | 1.214 |
| 51059 | NM_001362965,NM | **FAM135B** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51060 | NM_015913,NR_04 | **TXNDC12** | thioredoxin domain conta | protein_coding | 143 | 129 | 144 | 130 | 0.903 |
| 51061 | NM_001303447,NM | **TXNDC11** | thioredoxin domain conta | protein_coding | 23 | 24 | 24 | 25 | 1.031 |
| 51062 | NM_001127713,NM | **ATL1** | atlastin GTPase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.172 |
| 51063 | NM_015916,NR_02 | **CALHM2** | calcium homeostasis mo | protein_coding | 4 | 3 | 5 | 4 | 0.762 |
| 51065 | NM_015920 | **RPS27L** | ribosomal protein S27 lik | protein_coding | 17 | 17 | 18 | 18 | 1.007 |
| 51066 | NM_001256748,NM | **SSUH2** | ssu-2 homolog | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51067 | NM_001040436,XR | **YARS2** | tyrosyl-tRNA synthetase | protein_coding | 36 | 31 | 37 | 32 | 0.867 |
| 51068 | NM_001320227,NM | **NMD3** | NMD3 ribosome export a | protein_coding | 69 | 59 | 70 | 60 | 0.854 |
| 51069 | NM_001300848,NM | **MRPL2** | mitochondrial ribosomal | protein_coding | 98 | 105 | 99 | 106 | 1.074 |
| 51070 | NM_001270960,NM | **NOSIP** | nitric oxide synthase inte | protein_coding | 131 | 136 | 132 | 137 | 1.038 |
| 51071 | NM_001300779,NM | **DERA** | deoxyribose-phosphate a | protein_coding | 12 | 15 | 13 | 16 | 1.244 |
| 51072 | NM_001137602,NM | **MEMO1** | mediator of cell motility 1 | protein_coding | 14 | 12 | 15 | 13 | 0.882 |
| 51073 | NM_015956,NM_14 | **MRPL4** | mitochondrial ribosomal | protein_coding | 244 | 250 | 245 | 251 | 1.027 |
| 51074 | NM_015957,XM_01 | **APIP** | APAF1 interacting protei | protein_coding | 104 | 99 | 105 | 100 | 0.948 |
| 51075 | NM_001144012,NM | **TMX2** | thioredoxin related transi | protein_coding | 206 | 200 | 207 | 201 | 0.969 |
| 51076 | NM_015960 | **CUTC** | cutC copper transporter | protein_coding | 50 | 51 | 51 | 52 | 1.019 |
| 51077 | NM_001318508,NM | **FCF1** | FCF1 rRNA-processing p | protein_coding | 62 | 60 | 63 | 61 | 0.969 |
| 51078 | NM_001164356,NM | **THAP4** | THAP domain containing | protein_coding | 124 | 120 | 125 | 121 | 0.971 |
| 51079 | NM_015965 | **NDUFA13** | NADH:ubiquinone oxidor | protein_coding | 397 | 439 | 398 | 440 | 1.105 |
| 51081 | NM_015971 | **MRPS7** | mitochondrial ribosomal | protein_coding | 200 | 210 | 201 | 211 | 1.047 |
| 51082 | NM_001206559,NM | **POLR1D** | RNA polymerase I and III | protein_coding | 208 | 211 | 209 | 212 | 1.013 |
| 51083 | NM_015973 | **GAL** | galanin and GMAP prepr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51084 | NM_001363647,NM | **CRYL1** | crystallin lambda 1 | protein_coding | 0 | 1 | 1 | 2 | 1.427 |
| 51085 | NM_032951,NM_03 | **MLXIPL** | MLX interacting protein li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51086 | NM_015978 | **TNNI3K** | TNNI3 interacting kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51087 | NM_015982,XM_01 | **YBX2** | Y-box binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51088 | NM_001007075,NM | **KLHL5** | kelch like family member | protein_coding | 9 | 7 | 10 | 8 | 0.820 |
| 51090 | NM_015993 | **PLLP** | plasmolipin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51091 | NM_016955,XM_01 | **SEPSECS** | Sep (O-phosphoserine) t | protein_coding | 6 | 6 | 7 | 7 | 0.971 |

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|---|---|---|---|---|---|---|---|---|---|
| 51092 | NM_001040455 | **SIDT2** | SID1 transmembrane far | protein_coding | 3 | 3 | 4 | 4 | 1.006 |
| 51093 | NM_001142560,NM | **RRNAD1** | ribosomal RNA adenine | protein_coding | 25 | 26 | 26 | 27 | 1.028 |
| 51094 | NM_001290553,NM | **ADIPOR1** | adiponectin receptor 1 | protein_coding | 96 | 95 | 97 | 96 | 0.991 |
| 51095 | NM_001302946,NM | **TRNT1** | tRNA nucleotidyl transfe | protein_coding | 37 | 30 | 38 | 31 | 0.802 |
| 51096 | NM_016001,XM_00 | **UTP18** | UTP18 small subunit pro | protein_coding | 106 | 102 | 107 | 103 | 0.962 |
| 51097 | NM_016002 | **SCCPDH** | saccharopine dehydroge | protein_coding | 19 | 19 | 20 | 20 | 1.010 |
| 51098 | NM_001303458,NM | **IFT52** | intraflagellar transport 52 | protein_coding | 34 | 34 | 35 | 35 | 1.010 |
| 51099 | NM_001355186,NM | **ABHD5** | abhydrolase domain con | protein_coding | 11 | 10 | 12 | 11 | 0.986 |
| 51100 | NM_001206651,NM | **SH3GLB1** | SH3 domain containing ( | protein_coding | 53 | 46 | 54 | 47 | 0.869 |
| 51101 | NM_001362969,NM | **ZC2HC1A** | zinc finger C2HC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51102 | NM_001024732,NM | **MECR** | mitochondrial trans-2-en | protein_coding | 26 | 29 | 27 | 30 | 1.093 |
| 51103 | NM_016013,NR_04 | **NDUFAF1** | NADH:ubiquinone oxidor | protein_coding | 40 | 43 | 41 | 44 | 1.071 |
| 51104 | NM_001025780,NM | **ABHD17B** | abhydrolase domain con | protein_coding | 19 | 16 | 20 | 17 | 0.843 |
| 51105 | NM_001277196,NM | **PHF20L1** | PHD finger protein 20 lik | protein_coding | 6 | 6 | 7 | 7 | 0.979 |
| 51106 | NM_001350501,NM | **TFB1M** | transcription factor B1, m | protein_coding | 10 | 10 | 11 | 11 | 1.066 |
| 51107 | NM_001077628,NM | **APH1A** | aph-1 homolog A, gamm | protein_coding | 289 | 304 | 290 | 305 | 1.054 |
| 51108 | NM_001077180,NM | **METTL9** | methyltransferase like 9 | protein_coding | 75 | 71 | 76 | 72 | 0.943 |
| 51109 | NM_001252650,NM | **RDH11** | retinol dehydrogenase 1 | protein_coding | 55 | 51 | 56 | 52 | 0.930 |
| 51110 | NM_016027 | **LACTB2** | lactamase beta 2 | protein_coding | 31 | 26 | 32 | 27 | 0.848 |
| 51111 | NM_001300907,NM | **KMT5B** | lysine methyltransferase | protein_coding | 8 | 8 | 9 | 9 | 0.972 |
| 51112 | NM_001321102,NM | **TRAPPC12** | trafficking protein particl | protein_coding | 18 | 19 | 19 | 20 | 1.011 |
| 51114 | NM_001008222,NM | **ZDHHC9** | zinc finger DHHC-type pa | protein_coding | 4 | 4 | 5 | 5 | 0.962 |
| 51115 | NM_001286707,NM | **RMDN1** | regulator of microtubule | protein_coding | 50 | 47 | 51 | 48 | 0.949 |
| 51116 | NM_001371401,NM | **MRPS2** | mitochondrial ribosomal | protein_coding | 88 | 97 | 89 | 98 | 1.105 |
| 51117 | NM_001305942,NM | **COQ4** | coenzyme Q4 | protein_coding | 42 | 46 | 43 | 47 | 1.104 |
| 51118 | NM_016037,XM_01 | **UTP11** | UTP11 small subunit pro | protein_coding | 153 | 141 | 154 | 142 | 0.919 |
| 51119 | NM_016038 | **SBDS** | SBDS ribosome maturati | protein_coding | 117 | 113 | 118 | 114 | 0.967 |
| 51121 | NM_001317980,NM | **RPL26L1** | ribosomal protein L26 lik | protein_coding | 115 | 132 | 116 | 133 | 1.152 |
| 51122 | NM_016094,NR_13 | **COMMD2** | COMM domain containin | protein_coding | 43 | 38 | 44 | 39 | 0.890 |
| 51123 | NM_001042510,NM | **ZNF706** | zinc finger protein 706 | protein_coding | 38 | 38 | 39 | 39 | 1.011 |
| 51124 | NM_016097 | **IER3IP1** | immediate early respons | protein_coding | 41 | 37 | 42 | 38 | 0.903 |
| 51125 | NM_001002296,NM | **GOLGA7** | golgin A7 | protein_coding | 99 | 98 | 100 | 99 | 0.995 |
| 51126 | NM_016100,NM_18 | **NAA20** | N-alpha-acetyltransferas | protein_coding | 167 | 160 | 168 | 161 | 0.955 |
| 51127 | NM_001024940,NM | **TRIM17** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51128 | NM_001033503,NM | **SAR1B** | secretion associated Ras | protein_coding | 30 | 28 | 31 | 29 | 0.932 |
| 51129 | NM_001039667,NM | **ANGPTL4** | angiopoietin like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51130 | NM_001201965,NM | **ASB3** | ankyrin repeat and SOC | protein_coding | 16 | 13 | 17 | 14 | 0.845 |
| 51131 | NM_001040443,NM | **PHF11** | PHD finger protein 11 | protein_coding | 20 | 18 | 21 | 19 | 0.912 |
| 51132 | NM_016120,NM_18 | **RLIM** | ring finger protein, LIM d | protein_coding | 26 | 23 | 27 | 24 | 0.900 |
| 51133 | NM_001319294,NM | **KCTD3** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51134 | NM_001042399,NM | **CEP83** | centrosomal protein 83 | protein_coding | 18 | 15 | 19 | 16 | 0.843 |
| 51135 | NM_001114182,NM | **IRAK4** | interleukin 1 receptor ass | protein_coding | 15 | 14 | 16 | 15 | 0.964 |
| 51136 | NM_016125 | **RNFT1** | ring finger protein, transr | protein_coding | 10 | 9 | 11 | 10 | 0.947 |
| 51138 | NM_001258006,NM | **COPS4** | COP9 signalosome subu | protein_coding | 51 | 53 | 52 | 54 | 1.051 |
| 51141 | NM_001321329,NM | **INSIG2** | insulin induced gene 2 | protein_coding | 14 | 12 | 15 | 13 | 0.880 |
| 51142 | NM_001320327,NM | **CHCHD2** | coiled-coil-helix-coiled-co | protein_coding | 661 | 706 | 662 | 707 | 1.068 |
| 51143 | NM_001329135,NM | **DYNC1LI1** | dynein cytoplasmic 1 ligh | protein_coding | 63 | 56 | 64 | 57 | 0.897 |
| 51144 | NM_016142,XM_01 | **HSD17B12** | hydroxysteroid 17-beta d | protein_coding | 28 | 21 | 29 | 22 | 0.766 |
| 51145 | NR_122032 | **LOC51145** | uncharacterized LOC511 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 51146 | NM_016161,XM_01 | **A4GNT** | alpha-1,4-N-acetylglucos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51147 | NM_001127582,NM | **ING4** | inhibitor of growth family | protein_coding | 8 | 8 | 9 | 9 | 1.080 |
| 51148 | NM_001286760,NM | **CERCAM** | cerebral endothelial cell | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51149 | NM_001017987,NM | **MRNIP** | MRN complex interacting | protein_coding | 9 | 9 | 10 | 10 | 1.016 |
| 51150 | NM_016176,NM_01 | **SDF4** | stromal cell derived factc | protein_coding | 160 | 182 | 161 | 183 | 1.133 |
| 51151 | NM_001012509,NM | **SLC45A2** | solute carrier family 45 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51154 | NM_016183,XM_00 | **MRTO4** | MRT4 homolog, ribosom | protein_coding | 265 | 257 | 266 | 258 | 0.970 |
| 51155 | NM_001002032,NM | **JPT1** | Jupiter microtubule asso | protein_coding | 305 | 327 | 306 | 328 | 1.072 |
| 51156 | NM_001100607,NM | **SERPINA10** | serpin family A member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51157 | NM_001163423,NM | **ZNF580** | zinc finger protein 580 | protein_coding | 28 | 31 | 29 | 32 | 1.107 |
| 51160 | NM_016208,NM_18 | **VPS28** | VPS28 subunit of ESCR | protein_coding | 19 | 21 | 20 | 22 | 1.089 |
| 51161 | NM_001171740,NM | **C3orf18** | chromosome 3 open rea | protein_coding | 7 | 9 | 8 | 10 | 1.266 |
| 51162 | NM_016215,NM_20 | **EGFL7** | EGF like domain multiple | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51163 | NM_016216 | **DBR1** | debranching RNA lariats | protein_coding | 45 | 40 | 46 | 41 | 0.884 |
| 51164 | NM_001135643,NM | **DCTN4** | dynactin subunit 4 | protein_coding | 39 | 35 | 40 | 36 | 0.920 |
| 51166 | NM_001286682,NM | **AADAT** | aminoadipate aminotrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51167 | NM_016230 | **CYB5R4** | cytochrome b5 reductase | protein_coding | 19 | 16 | 20 | 17 | 0.857 |
| 51168 | NM_016239,XM_01 | **MYO15A** | myosin XVA | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51170 | NM_016245,XM_01 | **HSD17B11** | hydroxysteroid 17-beta d | protein_coding | 5 | 3 | 6 | 4 | 0.678 |
| 51171 | NM_016246,XM_00 | **HSD17B14** | hydroxysteroid 17-beta d | protein_coding | 1 | 1 | 2 | 2 | 0.878 |
| 51172 | NM_016256,XM_01 | **NAGPA** | N-acetylglucosamine-1-p | protein_coding | 8 | 9 | 9 | 10 | 1.135 |
| 51174 | NM_001193609,NM | **TUBD1** | tubulin delta 1 | protein_coding | 11 | 10 | 12 | 11 | 0.972 |
| 51175 | NM_016262,XM_01 | **TUBE1** | tubulin epsilon 1 | protein_coding | 21 | 19 | 22 | 20 | 0.917 |
| 51176 | NM_001130713,NM | **LEF1** | lymphoid enhancer bindi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51177 | NM_001304722,NM | **PLEKHO1** | pleckstrin homology dor | protein_coding | 136 | 134 | 137 | 135 | 0.979 |
| 51179 | NM_001005783,NM | **HAO2** | hydroxyacid oxidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51181 | NM_001195218,NM | **DCXR** | dicarbonyl and L-xylulos | protein_coding | 95 | 98 | 96 | 99 | 1.026 |
| 51182 | NM_016299 | **HSPA14** | heat shock protein family | protein_coding | 52 | 48 | 53 | 49 | 0.936 |
| 51184 | NM_001164372,NM | **GPN3** | GPN-loop GTPase 3 | protein_coding | 56 | 59 | 57 | 60 | 1.053 |
| 51185 | NM_001173482,NM | **CRBN** | cereblon | protein_coding | 16 | 14 | 17 | 15 | 0.908 |
| 51186 | NM_001006612,NM | **TCEAL9** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51187 | NM_016304 | **RSL24D1** | ribosomal L24 domain co | protein_coding | 207 | 180 | 208 | 181 | 0.870 |
| 51188 | NM_001370300,NM | **SS18L2** | SS18 like 2 | protein_coding | 34 | 56 | 35 | 57 | 1.629 |
| 51191 | NM_016323,XM_01 | **HERC5** | HECT and RLD domain c | protein_coding | 14 | 12 | 15 | 13 | 0.843 |
| 51192 | NM_001040138,NM | **CKLF** | chemokine like factor | protein_coding | 228 | 227 | 229 | 228 | 0.996 |
| 51193 | NM_001303425,NM | **ZNF639** | zinc finger protein 639 | protein_coding | 27 | 24 | 28 | 25 | 0.886 |
| 51194 | NM_001134779,NM | **IPO11** | importin 11 | protein_coding | 36 | 32 | 37 | 33 | 0.889 |
| 51195 | NM_001303533,NM | **RAPGEFL1** | Rap guanine nucleotide | protein_coding | 3 | 2 | 4 | 3 | 0.811 |
| 51196 | NM_001165979,NM | **PLCE1** | phospholipase C epsilon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51198 | NR_024274 | **CDKN2A-DT** | CDKN2A divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 51199 | NM_016350,NM_02 | **NIN** | ninein | protein_coding | 3 | 3 | 4 | 4 | 1.022 |
| 51200 | NM_001163446,NM | **CPA4** | carboxypeptidase A4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51201 | NM_001362988,NM | **ZDHHC2** | zinc finger DHHC-type pa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51202 | NM_016355,NM_20 | **DDX47** | DEAD-box helicase 47 | protein_coding | 58 | 51 | 59 | 52 | 0.879 |
| 51203 | NM_001243142,NM | **NUSAP1** | nucleolar and spindle as | protein_coding | 236 | 215 | 237 | 216 | 0.912 |
| 51204 | NM_016360 | **TACO1** | translational activator of | protein_coding | 57 | 55 | 58 | 56 | 0.962 |
| 51205 | NM_001323625,NM | **ACP6** | acid phosphatase 6, lysc | protein_coding | 1 | 1 | 2 | 2 | 0.874 |
| 51206 | NM_001083899,NM | **GP6** | glycoprotein VI platelet | protein_coding | 0 | 0 | 1 | 1 | 0.880 |
| 51207 | NM_001007271,NM | **DUSP13** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51208 | NM_001002026,NM | **CLDN18** | claudin 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51209 | NM_016370,NR_14 | **RAB9B** | RAB9B, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 51213 | NM_001318840,NM | **LUZP4** | leucine zipper protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51214 | NR_028043,NR_13 | **IGF2-AS** | IGF2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 51218 | NM_016417 | **GLRX5** | glutaredoxin 5 | protein_coding | 133 | 143 | 134 | 144 | 1.073 |
| 51222 | NM_001101672,NM | **ZNF219** | zinc finger protein 219 | protein_coding | 1 | 1 | 2 | 2 | 0.865 |
| 51224 | NM_016427 | **ELOA2** | elongin A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51225 | NM_001135186,NM | **ABI3** | ABI family member 3 | protein_coding | 42 | 40 | 43 | 41 | 0.956 |
| 51226 | NM_016429,XM_01 | **COPZ2** | COPI coat complex subu | protein_coding | 2 | 2 | 3 | 3 | 1.019 |
| 51227 | NM_001320480,NM | **PIGP** | phosphatidylinositol glyc | protein_coding | 36 | 38 | 37 | 39 | 1.051 |
| 51228 | NM_016433,XM_01 | **GLTP** | glycolipid transfer protein | protein_coding | 36 | 36 | 37 | 37 | 1.006 |
| 51230 | NM_016436,XM_00 | **PHF20** | PHD finger protein 20 | protein_coding | 30 | 27 | 31 | 28 | 0.905 |
| 51231 | NM_001025778,NM | **VRK3** | VRK serine/threonine kin | protein_coding | 42 | 49 | 43 | 50 | 1.163 |
| 51232 | NM_016441,XM_00 | **CRIM1** | cysteine rich transmemb | protein_coding | 38 | 34 | 39 | 35 | 0.906 |
| 51233 | NM_016449,XM_01 | **DRICH1** | aspartate rich 1 | protein_coding | 3 | 4 | 4 | 5 | 1.105 |
| 51234 | NM_001286420,NM | **EMC4** | ER membrane protein co | protein_coding | 229 | 225 | 230 | 226 | 0.981 |
| 51236 | NM_016458,XR_00 | **HGH1** | HGH1 homolog | protein_coding | 25 | 25 | 26 | 26 | 1.022 |
| 51237 | NM_016459 | **MZB1** | marginal zone B and B1 | protein_coding | 181 | 193 | 182 | 194 | 1.066 |
| 51239 | NM_016466 | **ANKRD39** | ankyrin repeat domain 3 | protein_coding | 26 | 27 | 27 | 28 | 1.046 |
| 51241 | NM_001204090,NM | **COX16** | cytochrome c oxidase as | protein_coding | 28 | 29 | 29 | 30 | 1.041 |
| 51244 | NM_016474,NR_13 | **CCDC174** | coiled-coil domain contai | protein_coding | 17 | 15 | 18 | 16 | 0.920 |
| 51246 | NM_001272065,NM | **SHISA5** | shisa family member 5 | protein_coding | 209 | 216 | 210 | 217 | 1.032 |
| 51247 | NM_001033112,NM | **PAIP2** | poly(A) binding protein in | protein_coding | 134 | 133 | 135 | 134 | 0.994 |
| 51248 | NM_001370174,NM | **PDZD11** | PDZ domain containing 1 | protein_coding | 64 | 63 | 65 | 64 | 0.994 |
| 51249 | NM_016486,XM_02 | **TMEM69** | transmembrane protein 6 | protein_coding | 52 | 47 | 53 | 48 | 0.904 |
| 51250 | NM_001142468,NM | **MTRES1** | mitochondrial transcriptic | protein_coding | 16 | 16 | 17 | 17 | 0.970 |
| 51251 | NM_001002009,NM | **NT5C3A** | 5'-nucleotidase, cytosolic | protein_coding | 41 | 35 | 42 | 36 | 0.852 |
| 51252 | NM_001122646,NM | **FAM178B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|
| 51253 | NM_001330602,NM | **MRPL37** | mitochondrial ribosomal | protein_coding | 310 | 317 | 311 | 318 | 1.023 |
| 51255 | NM_016494,XM_00 | **RNF181** | ring finger protein 181 | protein_coding | 104 | 109 | 105 | 110 | 1.048 |
| 51256 | NM_001143964,NM | **TBC1D7** | TBC1 domain family mer | protein_coding | 23 | 22 | 24 | 23 | 0.966 |
| 51257 | NM_001005415,NM | **MARCHF2** | membrane associated rir | protein_coding | 5 | 5 | 6 | 6 | 0.966 |
| 51258 | NM_016497 | **MRPL51** | mitochondrial ribosomal | protein_coding | 159 | 168 | 160 | 169 | 1.055 |
| 51259 | NM_001173990,NM | **TMEM216** | transmembrane protein 2 | protein_coding | 34 | 38 | 35 | 39 | 1.143 |
| 51260 | NM_001300888,NM | **PBDC1** | polysaccharide biosynthe | protein_coding | 65 | 59 | 66 | 60 | 0.908 |
| 51263 | NM_145212,NR_02 | **MRPL30** | mitochondrial ribosomal | protein_coding | 38 | 36 | 39 | 37 | 0.935 |
| 51264 | NM_016504 | **MRPL27** | mitochondrial ribosomal | protein_coding | 120 | 127 | 121 | 128 | 1.055 |
| 51265 | NM_001113575,NM | **CDKL3** | cyclin dependent kinase | protein_coding | 2 | 2 | 3 | 3 | 0.939 |
| 51266 | NM_001099431,NM | **CLEC1B** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51267 | NM_001297748,NM | **CLEC1A** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51268 | NM_016518,XM_01 | **PIPOX** | pipecolic acid and sarcos | protein_coding | 0 | 0 | 1 | 1 | 1.092 |
| 51270 | NM_016521 | **TFDP3** | transcription factor Dp fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51271 | NM_001171201,NM | **UBAP1** | ubiquitin associated prot | protein_coding | 47 | 41 | 48 | 42 | 0.869 |
| 51272 | NM_001098787,NM | **BET1L** | Bet1 golgi vesicular mem | protein_coding | 64 | 71 | 65 | 72 | 1.103 |
| 51274 | NM_016531,XM_01 | **KLF3** | Kruppel like factor 3 | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 51275 | NR_015404,NR_15 | **MAPKAPK5-AS1** | MAPKAPK5 antisense RI | lncRNA | 21 | 18 | 22 | 19 | 0.872 |
| 51276 | NM_001290314,NM | **ZNF571** | zinc finger protein 571 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51277 | NM_001198559,NM | **DNAJC27** | DnaJ heat shock protein | protein_coding | 3 | 3 | 4 | 4 | 0.880 |
| 51278 | NM_016545 | **IER5** | immediate early respons | protein_coding | 41 | 42 | 42 | 43 | 1.012 |
| 51279 | NM_001297640,NM | **C1RL** | complement C1r subcom | protein_coding | 5 | 5 | 6 | 6 | 1.087 |
| 51280 | NM_016548,NM_17 | **GOLM1** | golgi membrane protein | protein_coding | 0 | 0 | 1 | 1 | 0.889 |
| 51281 | NM_001282771,NM | **ANKMY1** | ankyrin repeat and MYNI | protein_coding | 22 | 22 | 23 | 23 | 0.962 |
| 51282 | NM_016558,NM_03 | **SCAND1** | SCAN domain containing | protein_coding | 73 | 84 | 74 | 85 | 1.143 |
| 51283 | NM_001330500,NM | **BFAR** | bifunctional apoptosis re | protein_coding | 71 | 68 | 72 | 69 | 0.952 |
| 51284 | NM_016562 | **TLR7** | toll like receptor 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51285 | NM_001307930,NM | **RASL12** | RAS like family 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51286 | NM_016564 | **CEND1** | cell cycle exit and neuro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51287 | NM_016565,XM_01 | **COA4** | cytochrome c oxidase as | protein_coding | 226 | 237 | 227 | 238 | 1.044 |
| 51289 | NM_016568 | **RXFP3** | relaxin family peptide rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51290 | NM_016570,XM_02 | **ERGIC2** | ERGIC and golgi 2 | protein_coding | 19 | 16 | 20 | 17 | 0.837 |
| 51291 | NM_001288998,NM | **GMIP** | GEM interacting protein | protein_coding | 21 | 19 | 22 | 20 | 0.940 |
| 51292 | NM_001002000,NM | **GMPR2** | guanosine monophospha | protein_coding | 37 | 39 | 38 | 40 | 1.051 |
| 51293 | NM_001165895,NM | **CD320** | CD320 molecule | protein_coding | 178 | 200 | 179 | 201 | 1.119 |
| 51294 | NM_016580,XM_02 | **PCDH12** | protocadherin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51295 | NM_001142464,NM | **ECSIT** | ECSIT signaling integrat | protein_coding | 56 | 66 | 57 | 67 | 1.165 |
| 51296 | NM_016582,NR_02 | **SLC15A3** | solute carrier family 15 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51297 | NM_001243193,NM | **BPIFA1** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51298 | NM_016585,NM_19 | **THEG** | theg spermatid protein | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 51299 | NM_001278710,NM | **NRN1** | neuritin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51300 | NM_016589,XM_01 | **TIMMDC1** | translocase of inner mito | protein_coding | 77 | 62 | 78 | 63 | 0.805 |
| 51301 | NM_001366737 | **GCNT4** | glucosaminyl (N-acetyl) t | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 51302 | NM_001278738,NM | **CYP39A1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51303 | NM_001143781,NM | **FKBP11** | FKBP prolyl isomerase 1 | protein_coding | 227 | 209 | 228 | 210 | 0.924 |
| 51304 | NM_001135179,NM | **ZDHHC3** | zinc finger DHHC-type pa | protein_coding | 16 | 16 | 17 | 17 | 0.963 |
| 51305 | NM_001282534,NR | **KCNK9** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51306 | NM_001101800,NM | **FAM13B** | family with sequence sim | protein_coding | 50 | 47 | 51 | 48 | 0.956 |
| 51307 | NM_001135647,NM | **FAM53C** | family with sequence sim | protein_coding | 50 | 50 | 51 | 51 | 0.991 |
| 51308 | NM_001271803,NM | **REEP2** | receptor accessory prote | protein_coding | 0 | 0 | 1 | 1 | 0.907 |
| 51309 | NM_016608 | **ARMCX1** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51310 | NM_001289050,NM | **SLC22A17** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51311 | NM_016610,NM_13 | **TLR8** | toll like receptor 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51312 | NM_001317812,NM | **SLC25A37** | solute carrier family 25 m | protein_coding | 19 | 18 | 20 | 19 | 0.980 |
| 51313 | NM_001031700,NM | **GASK1B** | golgi associated kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51314 | NM_016616 | **NME8** | NME/NM23 family memb | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 51315 | NM_001304526,NM | **KRCC1** | lysine rich coiled-coil 1 | protein_coding | 15 | 14 | 16 | 15 | 0.946 |
| 51316 | NM_001130715,NM | **PLAC8** | placenta associated 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51317 | NM_001101802,NM | **PHF21A** | PHD finger protein 21A | protein_coding | 12 | 10 | 13 | 11 | 0.862 |
| 51318 | NM_001363782,NM | **MRPL35** | mitochondrial ribosomal | protein_coding | 29 | 32 | 30 | 33 | 1.092 |
| 51319 | NM_001271834,NM | **RSRC1** | arginine and serine rich c | protein_coding | 31 | 31 | 32 | 32 | 0.992 |
| 51320 | NM_016626 | **MEX3C** | mex-3 RNA binding famil | protein_coding | 90 | 77 | 91 | 78 | 0.855 |
| 51321 | NM_001033569,NM | **AMZ2** | archaelysin family metall | protein_coding | 93 | 95 | 94 | 96 | 1.020 |
| 51322 | NM_016628,NM_10 | **WAC** | WW domain containing a | protein_coding | 34 | 28 | 35 | 29 | 0.820 |
| 51324 | NM_001127889,NM | **SPG21** | SPG21 abhydrolase dom | protein_coding | 93 | 83 | 94 | 84 | 0.895 |
| 51326 | NM_001113738,NM | **ARL17A** | ADP ribosylation factor li | protein_coding | 19 | 15 | 20 | 16 | 0.799 |
| 51327 | NM_001318221,NM | **AHSP** | alpha hemoglobin stabili | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51329 | NM_001002251,NM | **ARL6IP4** | ADP ribosylation factor li | protein_coding | 135 | 147 | 136 | 148 | 1.088 |
| 51330 | NM_016639 | **TNFRSF12A** | TNF receptor superfamil | protein_coding | 5 | 6 | 6 | 7 | 1.247 |
| 51332 | NM_016642,XM_01 | **SPTBN5** | spectrin beta, non-erythr | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 51333 | NM_001142305,NM | **ZNF771** | zinc finger protein 771 | protein_coding | 1 | 1 | 2 | 2 | 1.124 |
| 51334 | NM_001300783,NM | **PRR16** | proline rich 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51335 | NM_001033088,NR | **NGRN** | neugrin, neurite outgrow | protein_coding | 102 | 96 | 103 | 97 | 0.944 |
| 51337 | NM_001363000,NM | **THEM6** | thioesterase superfamily | protein_coding | 10 | 12 | 11 | 13 | 1.215 |
| 51338 | NM_001243266,NM | **MS4A4A** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51339 | NM_001079520,NM | **DACT1** | dishevelled binding anta | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 51340 | NM_001278625,NM | **CRNKL1** | crooked neck pre-mRNA | protein_coding | 38 | 33 | 39 | 34 | 0.886 |
| 51341 | NM_001317990,NM | **ZBTB7A** | zinc finger and BTB dom | protein_coding | 24 | 24 | 25 | 25 | 0.998 |
| 51343 | NM_001136197,NM | **FZR1** | fizzy and cell division cyc | protein_coding | 31 | 32 | 32 | 33 | 1.036 |
| 51347 | NM_001346487,NM | **TAOK3** | TAO kinase 3 | protein_coding | 56 | 46 | 57 | 47 | 0.827 |
| 51348 | NM_001291822,NM | **KLRF1** | killer cell lectin like recep | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 51350 | NM_015848 | **KRT76** | keratin 76 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51351 | NM_015852 | **ZNF117** | zinc finger protein 117 | protein_coding | 2 | 1 | 3 | 2 | 0.755 |
| 51352 | NR_023920,NR_12 | **WT1-AS** | WT1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 51360 | NM_015884 | **MBTPS2** | membrane bound transc | protein_coding | 19 | 16 | 20 | 17 | 0.874 |
| 51361 | NM_015888,XM_00 | **HOOK1** | hook microtubule tetherii | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51362 | NM_015891 | **CDC40** | cell division cycle 40 | protein_coding | 30 | 28 | 31 | 29 | 0.933 |
| 51363 | NM_001270764,NM | **CHST15** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51364 | NM_001308379,NM | **ZMYND10** | zinc finger MYND-type c | protein_coding | 4 | 5 | 5 | 6 | 1.231 |
| 51365 | NM_001206960,NM | **PLA1A** | phospholipase A1 memb | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51366 | NM_001282873,NM | **UBR5** | ubiquitin protein ligase E | protein_coding | 61 | 51 | 62 | 52 | 0.843 |
| 51367 | NM_015918,NM_19 | **POP5** | POP5 homolog, ribonucl | protein_coding | 62 | 60 | 63 | 61 | 0.955 |
| 51368 | NM_001129884,NM | **TEX264** | testis expressed 264, ER | protein_coding | 44 | 53 | 45 | 54 | 1.216 |
| 51371 | NM_015932 | **POMP** | proteasome maturation p | protein_coding | 247 | 236 | 248 | 237 | 0.956 |
| 51372 | NM_001329417,NM | **TMA7** | translation machinery as | protein_coding | 499 | 547 | 500 | 548 | 1.097 |
| 51373 | NM_015969 | **MRPS17** | mitochondrial ribosomal | protein_coding | 25 | 28 | 26 | 29 | 1.105 |
| 51374 | NM_001170795,NM | **ATRAID** | all-trans retinoic acid ind | protein_coding | 96 | 100 | 97 | 101 | 1.046 |
| 51375 | NM_001364903,NM | **SNX7** | sorting nexin 7 | protein_coding | 41 | 39 | 42 | 40 | 0.960 |
| 51377 | NM_001199261,NM | **UCHL5** | ubiquitin C-terminal hydr | protein_coding | 70 | 64 | 71 | 65 | 0.914 |
| 51378 | NM_001322809,NM | **ANGPT4** | angiopoietin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 51379 | NM_015986,NR_07 | **CRLF3** | cytokine receptor like fac | protein_coding | 50 | 45 | 51 | 46 | 0.915 |
| 51380 | NM_001244705,NM | **CSAD** | cysteine sulfinic acid dec | protein_coding | 5 | 5 | 6 | 6 | 1.029 |
| 51382 | NM_015994 | **ATP6V1D** | ATPase H+ transporting | protein_coding | 35 | 36 | 36 | 37 | 1.019 |
| 51384 | NM_016087,NM_05 | **WNT16** | Wnt family member 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51385 | NM_016089 | **ZNF589** | zinc finger protein 589 | protein_coding | 17 | 15 | 18 | 16 | 0.861 |
| 51386 | NM_001242923,NM | **EIF3L** | eukaryotic translation init | protein_coding | 227 | 220 | 228 | 221 | 0.966 |
| 51388 | NM_001199434,NM | **NIP7** | nucleolar pre-rRNA proc | protein_coding | 155 | 149 | 156 | 150 | 0.962 |
| 51389 | NM_001007464,NM | **RWDD1** | RWD domain containing | protein_coding | 28 | 27 | 29 | 28 | 0.958 |
| 51390 | NM_001286587,NM | **AIG1** | androgen induced 1 | protein_coding | 21 | 17 | 22 | 18 | 0.789 |
| 51393 | NM_016113,XM_00 | **TRPV2** | transient receptor potent | protein_coding | 35 | 34 | 36 | 35 | 0.974 |
| 51397 | NM_001308080,NM | **COMMD10** | COMM domain containin | protein_coding | 21 | 15 | 22 | 16 | 0.732 |
| 51398 | NM_016145,XM_01 | **WDR83OS** | WD repeat domain 83 op | protein_coding | 130 | 141 | 131 | 142 | 1.083 |
| 51399 | NM_001318486,NM | **TRAPPC4** | trafficking protein particl | protein_coding | 72 | 76 | 73 | 77 | 1.055 |
| 51400 | NM_001271593,NM | **PPME1** | protein phosphatase met | protein_coding | 36 | 38 | 37 | 39 | 1.055 |
| 51406 | NM_001317724,NM | **NOL7** | nucleolar protein 7 | protein_coding | 166 | 165 | 167 | 166 | 0.995 |
| 51409 | NM_001317851,NM | **HEMK1** | HemK methyltransferase | protein_coding | 19 | 14 | 20 | 15 | 0.733 |
| 51411 | NM_001290007,NM | **BIN2** | bridging integrator 2 | protein_coding | 74 | 76 | 75 | 77 | 1.028 |
| 51412 | NM_016188,NR_13 | **ACTL6B** | actin like 6B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51421 | NM_001278683,NM | **AMOTL2** | angiomotin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51422 | NM_001040633,NM | **PRKAG2** | protein kinase AMP-activ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51426 | NM_001345921,NM | **POLK** | DNA polymerase kappa | protein_coding | 11 | 10 | 12 | 11 | 0.905 |
| 51427 | NM_001013746,NM | **ZNF107** | zinc finger protein 107 | protein_coding | 41 | 37 | 42 | 38 | 0.912 |
| 51428 | NM_001321732,NM | **DDX41** | DEAD-box helicase 41 | protein_coding | 81 | 84 | 82 | 85 | 1.037 |
| 51429 | NM_016224,XM_00 | **SNX9** | sorting nexin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51430 | NM_001282750,NM | **SUCO** | SUN domain containing c | protein_coding | 22 | 19 | 23 | 20 | 0.878 |
| 51433 | NM_001137559,NM | **ANAPC5** | anaphase promoting con | protein_coding | 110 | 113 | 111 | 114 | 1.031 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 51434 | NM_001137664,NM | **ANAPC7** | anaphase promoting con | protein_coding | 80 | 82 | 81 | 83 | 1.025 |
| 51435 | NM_016240,NM_18 | **SCARA3** | scavenger receptor class | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 51438 | NM_016249 | **MAGEC2** | MAGE family member C2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51439 | NM_016255 | **FAM8A1** | family with sequence sim | protein_coding | 14 | 14 | 15 | 15 | 1.050 |
| 51440 | NM_001282396,NM | **HPCAL4** | hippocalcin like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 51441 | NM_001172828,NM | **YTHDF2** | YTH N6-methyladenosin | protein_coding | 113 | 105 | 114 | 106 | 0.930 |
| 51442 | NM_016267 | **VGLL1** | vestigial like family meml | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51444 | NM_001191324,NM | **RNF138** | ring finger protein 138 | protein_coding | 124 | 110 | 125 | 111 | 0.891 |
| 51447 | NM_001005909,NM | **IP6K2** | inositol hexakisphosphat | protein_coding | 31 | 47 | 32 | 48 | 1.505 |
| 51449 | NM_016297 | **PCYOX1** | prenylcysteine oxidase 1 | protein_coding | 2 | 2 | 3 | 3 | 0.922 |
| 51450 | NM_016307,XM_01 | **PRRX2** | paired related homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51451 | NM_001032391,NM | **LCMT1** | leucine carboxyl methylt | protein_coding | 40 | 47 | 41 | 48 | 1.173 |
| 51454 | NM_001252668,NM | **GULP1** | GULP PTB domain conta | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 51455 | NM_001037872,NM | **REV1** | REV1 DNA directed poly | protein_coding | 21 | 18 | 22 | 19 | 0.874 |
| 51458 | NM_001321041,NM | **RHCG** | Rh family C glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51460 | NM_016329,XM_00 | **SFMBT1** | Scm like with four mbt d | protein_coding | 11 | 14 | 12 | 15 | 1.221 |
| 51463 | NM_001350180,NM | **GPR89B** | G protein-coupled recep | protein_coding | 26 | 26 | 27 | 27 | 0.979 |
| 51465 | NM_016021,XM_01 | **UBE2J1** | ubiquitin conjugating en | protein_coding | 32 | 27 | 33 | 28 | 0.862 |
| 51466 | NM_001330221,NM | **EVL** | Enah/Vasp-like | protein_coding | 90 | 95 | 91 | 96 | 1.055 |
| 51471 | NR_132338 | **NAT8B** | N-acetyltransferase 8B (g | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 51473 | NM_001195610,NM | **DCDC2** | doublecortin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 51474 | NM_001113546,NM | **LIMA1** | LIM domain and actin bir | protein_coding | 21 | 15 | 22 | 16 | 0.735 |
| 51475 | NM_001318496,NM | **CABP2** | calcium binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51477 | NM_001170938,NM | **ISYNA1** | inositol-3-phosphate syn | protein_coding | 1 | 1 | 2 | 2 | 1.055 |
| 51478 | NM_001304512,NM | **HSD17B7** | hydroxysteroid 17-beta d | protein_coding | 27 | 27 | 28 | 28 | 0.978 |
| 51479 | NM_001257999,NM | **ANKFY1** | ankyrin repeat and FYVE | protein_coding | 12 | 10 | 13 | 11 | 0.890 |
| 51480 | NM_016378 | **VCX2** | variable charge X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51481 | NM_016379 | **VCX3A** | variable charge X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51490 | NM_016390,XM_01 | **SPOUT1** | SPOUT domain containir | protein_coding | 36 | 37 | 37 | 38 | 1.037 |
| 51491 | NM_001256539,NM | **NOP16** | NOP16 nucleolar protein | protein_coding | 356 | 364 | 357 | 365 | 1.022 |
| 51493 | NM_014306 | **RTCB** | RNA 2',3'-cyclic phospha | protein_coding | 119 | 122 | 120 | 123 | 1.018 |
| 51495 | NM_016395,XM_01 | **HACD3** | 3-hydroxyacyl-CoA dehy | protein_coding | 183 | 164 | 184 | 165 | 0.900 |
| 51496 | NM_016396,XM_00 | **CTDSPL2** | CTD small phosphatase | protein_coding | 42 | 36 | 43 | 37 | 0.854 |
| 51497 | NM_198976,XR_24 | **NELFCD** | negative elongation factc | protein_coding | 330 | 326 | 331 | 327 | 0.988 |
| 51499 | NM_016399 | **TRIAP1** | TP53 regulated inhibitor | protein_coding | 76 | 78 | 77 | 79 | 1.024 |
| 51501 | NM_001322404,NM | **HIKESHI** | heat shock protein nucle | protein_coding | 91 | 98 | 92 | 99 | 1.069 |
| 51503 | NM_001363371,NM | **CWC15** | CWC15 spliceosome ass | protein_coding | 82 | 89 | 83 | 90 | 1.073 |
| 51504 | NM_001286082,NM | **TRMT112** | tRNA methyltransferase | protein_coding | 349 | 357 | 350 | 358 | 1.024 |
| 51506 | NM_016406,XM_00 | **UFC1** | ubiquitin-fold modifier co | protein_coding | 202 | 209 | 203 | 210 | 1.034 |
| 51507 | NM_001283035,NM | **RTF2** | replication termination fa | protein_coding | 188 | 183 | 189 | 184 | 0.974 |
| 51510 | NM_001195536,NM | **CHMP5** | charged multivesicular b | protein_coding | 74 | 70 | 75 | 71 | 0.945 |
| 51512 | NM_016426,XM_00 | **GTSE1** | G2 and S-phase express | protein_coding | 46 | 44 | 47 | 45 | 0.955 |
| 51513 | NM_001207035,NM | **ETV7** | ETS variant transcription | protein_coding | 7 | 7 | 8 | 8 | 0.960 |
| 51514 | NM_001286229,NM | **DTL** | denticleless E3 ubiquitin | protein_coding | 59 | 58 | 60 | 59 | 0.976 |
| 51517 | NM_016453,NM_18 | **NCKIPSD** | NCK interacting protein v | protein_coding | 24 | 26 | 25 | 27 | 1.060 |
| 51520 | NM_001317964,NM | **LARS1** | leucyl-tRNA synthetase 1 | protein_coding | 136 | 118 | 137 | 119 | 0.872 |
| 51522 | NM_001165258,NM | **TMEM14C** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51523 | NM_001317199,NM | **CXXC5** | CXXC finger protein 5 | protein_coding | 13 | 15 | 14 | 16 | 1.153 |
| 51524 | NM_001330281,NM | **TMEM138** | transmembrane protein 1 | protein_coding | 53 | 59 | 54 | 60 | 1.118 |
| 51526 | NM_016470,XM_01 | **OSER1** | oxidative stress responsi | protein_coding | 33 | 33 | 34 | 34 | 1.013 |
| 51527 | NM_001271904,NM | **GSKIP** | GSK3B interacting protei | protein_coding | 24 | 23 | 25 | 24 | 0.967 |
| 51528 | NM_001098625,NM | **JKAMP** | JNK1/MAPK8 associated | protein_coding | 29 | 25 | 30 | 26 | 0.840 |
| 51529 | NM_001002244,NM | **ANAPC11** | anaphase promoting con | protein_coding | 99 | 105 | 100 | 106 | 1.058 |
| 51530 | NM_001282190,NM | **ZC3HC1** | zinc finger C3HC-type cc | protein_coding | 48 | 45 | 49 | 46 | 0.956 |
| 51531 | NM_001330725,NM | **TRMO** | tRNA methyltransferase | protein_coding | 10 | 9 | 11 | 10 | 0.894 |
| 51533 | NM_001278221,NM | **PHF7** | PHD finger protein 7 | protein_coding | 6 | 6 | 7 | 7 | 1.053 |
| 51534 | NM_001286371,NM | **VTA1** | vesicle trafficking 1 | protein_coding | 28 | 25 | 29 | 26 | 0.908 |
| 51535 | NM_001143787,NM | **PPHLN1** | periphilin 1 | protein_coding | 49 | 50 | 50 | 51 | 1.024 |
| 51537 | NM_001003704,NM | **MTFP1** | mitochondrial fission pro | protein_coding | 98 | 97 | 99 | 98 | 0.991 |
| 51538 | NM_001282566,NM | **ZCCHC17** | zinc finger CCHC-type cc | protein_coding | 100 | 91 | 101 | 92 | 0.915 |
| 51540 | NM_016510 | **SCLY** | selenocysteine lyase | protein_coding | 62 | 68 | 63 | 69 | 1.091 |
| 51542 | NM_001005739,NM | **VPS54** | VPS54 subunit of GARP | protein_coding | 12 | 11 | 13 | 12 | 0.928 |
| 51545 | NM_016535,XM_00 | **ZNF581** | zinc finger protein 581 | protein_coding | 29 | 32 | 30 | 33 | 1.106 |
| 51547 | NM_016538,XM_01 | **SIRT7** | sirtuin 7 | protein_coding | 29 | 36 | 30 | 37 | 1.238 |
| 51548 | NM_001193285,NM | **SIRT6** | sirtuin 6 | protein_coding | 52 | 55 | 53 | 56 | 1.053 |
| 51550 | NM_001320046,NM | **CINP** | cyclin dependent kinase | protein_coding | 59 | 61 | 60 | 62 | 1.030 |
| 51552 | NM_016322 | **RAB14** | RAB14, member RAS on | protein_coding | 56 | 48 | 57 | 49 | 0.873 |
| 51554 | NM_016557,NM_17 | **ACKR4** | atypical chemokine rece | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 51555 | NM_001256750,NM | **PEX5L** | peroxisomal biogenesis f | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 51557 | NM_001143940,NM | **LGSN** | lengsin, lens protein with | protein_coding | 0 | 0 | 1 | 1 | 0.971 |
| 51559 | NM_001031701,XM | **NT5DC3** | 5'-nucleotidase domain c | protein_coding | 2 | 2 | 3 | 3 | 1.055 |
| 51560 | NM_001363953,NM | **RAB6B** | RAB6B, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51561 | NM_016584,XM_01 | **IL23A** | interleukin 23 subunit alp | protein_coding | 1 | 1 | 2 | 2 | 1.192 |
| 51562 | NM_001144891,NM | **MBIP** | MAP3K12 binding inhibit | protein_coding | 20 | 20 | 21 | 21 | 0.976 |
| 51564 | NM_001098416,NM | **HDAC7** | histone deacetylase 7 | protein_coding | 71 | 69 | 72 | 70 | 0.974 |
| 51566 | NM_016607,NM_17 | **ARMCX3** | armadillo repeat containi | protein_coding | 17 | 16 | 18 | 17 | 0.939 |
| 51567 | NM_016614 | **TDP2** | tyrosyl-DNA phosphodie | protein_coding | 129 | 122 | 130 | 123 | 0.951 |
| 51569 | NM_001286703,NM | **UFM1** | ubiquitin fold modifier 1 | protein_coding | 98 | 89 | 99 | 90 | 0.911 |
| 51571 | NM_001256763,NM | **CYRIB** | CYFIP related Rac1 inter | protein_coding | 188 | 165 | 189 | 166 | 0.877 |
| 51573 | NM_001324066,NM | **GDE1** | glycerophosphodiester p | protein_coding | 71 | 71 | 72 | 72 | 1.002 |
| 51574 | NM_001267039,NM | **LARP7** | La ribonucleoprotein 7, t | protein_coding | 60 | 55 | 61 | 56 | 0.925 |
| 51575 | NM_001276380,NM | **ESF1** | ESF1 nucleolar pre-rRNA | protein_coding | 55 | 45 | 56 | 46 | 0.831 |
| 51582 | NM_001301668,NM | **AZIN1** | antizyme inhibitor 1 | protein_coding | 184 | 174 | 185 | 175 | 0.945 |
| 51585 | NM_001346413,NM | **PCF11** | PCF11 cleavage and pol | protein_coding | 31 | 35 | 32 | 36 | 1.115 |
| 51586 | NM_001003891,NM | **MED15** | mediator complex subun | protein_coding | 24 | 25 | 25 | 26 | 1.047 |
| 51588 | NM_015897,XM_01 | **PIAS4** | protein inhibitor of activa | protein_coding | 35 | 37 | 36 | 38 | 1.050 |
| 51592 | NM_015906,NM_03 | **TRIM33** | tripartite motif containing | protein_coding | 41 | 35 | 42 | 36 | 0.860 |
| 51593 | NM_001128852,NM | **SRRT** | serrate, RNA effector mo | protein_coding | 166 | 169 | 167 | 170 | 1.018 |
| 51594 | NM_015909,NR_05 | **NBAS** | NBAS subunit of NRZ tet | protein_coding | 8 | 7 | 9 | 8 | 0.880 |
| 51596 | NM_001014433,NM | **CUTA** | cutA divalent cation toler | protein_coding | 192 | 194 | 193 | 195 | 1.010 |
| 51599 | NM_001260489,NM | **LSR** | lipolysis stimulated lipop | protein_coding | 0 | 0 | 1 | 1 | 0.925 |
| 51601 | NM_001204830,NM | **LIPT1** | lipoyltransferase 1 | protein_coding | 8 | 7 | 9 | 8 | 0.902 |
| 51602 | NM_015934 | **NOP58** | NOP58 ribonucleoprotein | protein_coding | 284 | 261 | 285 | 262 | 0.919 |
| 51603 | NM_001007239,NM | **EEF1AKNMT** | eEF1A lysine and N-term | protein_coding | 70 | 70 | 71 | 71 | 0.988 |
| 51604 | NM_001184728,NM | **PIGT** | phosphatidylinositol glyc | protein_coding | 95 | 100 | 96 | 101 | 1.049 |
| 51605 | NM_001281467,NM | **TRMT6** | tRNA methyltransferase | protein_coding | 92 | 85 | 93 | 86 | 0.927 |
| 51606 | NM_015941,NM_21 | **ATP6V1H** | ATPase H+ transporting | protein_coding | 29 | 30 | 30 | 31 | 1.024 |
| 51608 | NM_015949 | **GET4** | guided entry of tail-anch | protein_coding | 50 | 54 | 51 | 55 | 1.068 |
| 51611 | NM_001077394,NM | **DPH5** | diphthamide biosynthesi | protein_coding | 31 | 43 | 32 | 44 | 1.355 |
| 51614 | NM_015966,NM_19 | **ERGIC3** | ERGIC and golgi 3 | protein_coding | 187 | 192 | 188 | 193 | 1.027 |
| 51616 | NM_015975 | **TAF9B** | TATA-box binding protein | protein_coding | 42 | 40 | 43 | 41 | 0.973 |
| 51617 | NM_015980 | **NSG2** | neuronal vesicle traffickir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51619 | NM_015983,XM_00 | **UBE2D4** | ubiquitin conjugating en | protein_coding | 5 | 7 | 6 | 8 | 1.247 |
| 51621 | NM_001302461,NM | **KLF13** | Kruppel like factor 13 | protein_coding | 85 | 81 | 86 | 82 | 0.957 |
| 51622 | NM_015622 | **CCZ1** | CCZ1 homolog, vacuolar | protein_coding | 49 | 47 | 50 | 48 | 0.952 |
| 51626 | NM_001193464,NM | **DYNC2LI1** | dynein cytoplasmic 2 ligh | protein_coding | 11 | 9 | 12 | 10 | 0.765 |
| 51629 | NM_001143780,NM | **SLC25A39** | solute carrier family 25 m | protein_coding | 241 | 257 | 242 | 258 | 1.069 |
| 51631 | NM_001244585,NM | **LUC7L2** | LUC7 like 2, pre-mRNA s | protein_coding | 184 | 175 | 185 | 176 | 0.950 |
| 51633 | NM_001286745,NM | **OTUD6B** | OTU deubiquitinase 6B | protein_coding | 48 | 44 | 49 | 45 | 0.903 |
| 51634 | NM_016024 | **RBMX2** | RNA binding motif protei | protein_coding | 43 | 39 | 44 | 40 | 0.912 |
| 51635 | NM_001322280,NM | **DHRS7** | dehydrogenase/reductas | protein_coding | 42 | 36 | 43 | 37 | 0.865 |
| 51637 | NM_016039 | **RTRAF** | RNA transcription, transl | protein_coding | 46 | 46 | 47 | 47 | 0.996 |
| 51639 | NM_016047 | **SF3B6** | splicing factor 3b subuni | protein_coding | 359 | 344 | 360 | 345 | 0.958 |
| 51642 | NM_001318498,NM | **MRPL48** | mitochondrial ribosomal | protein_coding | 46 | 49 | 47 | 50 | 1.059 |
| 51643 | NM_001282606,NM | **TMBIM4** | transmembrane BAX inh | protein_coding | 29 | 28 | 30 | 29 | 0.962 |
| 51645 | NM_016059 | **PPIL1** | peptidylprolyl isomerase | protein_coding | 150 | 141 | 151 | 142 | 0.939 |
| 51646 | NM_001127399,NM | **YPEL5** | yippee like 5 | protein_coding | 1 | 1 | 2 | 2 | 0.966 |
| 51647 | NM_016062,NR_02 | **CIAO2B** | cytosolic iron-sulfur asse | protein_coding | 224 | 231 | 225 | 232 | 1.031 |
| 51649 | NM_016070 | **MRPS23** | mitochondrial ribosomal | protein_coding | 43 | 43 | 44 | 44 | 1.004 |
| 51650 | NM_016071,NM_05 | **MRPS33** | mitochondrial ribosomal | protein_coding | 19 | 20 | 20 | 21 | 1.052 |
| 51651 | NM_001015509,NM | **PTRH2** | peptidyl-tRNA hydrolase | protein_coding | 88 | 83 | 89 | 84 | 0.938 |
| 51652 | NM_001005753,NM | **CHMP3** | charged multivesicular b | protein_coding | 41 | 35 | 42 | 36 | 0.853 |
| 51654 | NM_001278167,NM | **CDK5RAP1** | CDK5 regulatory subunit | protein_coding | 81 | 78 | 82 | 79 | 0.963 |
| 51655 | NM_001199989,NM | **RASD1** | ras related dexamethaso | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51657 | NM_001317785,NM | **STYXL1** | serine/threonine/tyrosine | protein_coding | 27 | 29 | 28 | 30 | 1.073 |
| 51659 | NM_016095 | **GINS2** | GINS complex subunit 2 | protein_coding | 42 | 42 | 43 | 43 | 1.019 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 51660 | NM_001270879,NM | **MPC1** | mitochondrial pyruvate c | protein_coding | 68 | 56 | 69 | 57 | 0.826 |
| 51661 | NM_001135212,NM | **FKBP7** | FKBP prolyl isomerase 7 | protein_coding | 17 | 15 | 18 | 16 | 0.888 |
| 51663 | NM_016107,NR_14 | **ZFR** | zinc finger RNA binding | protein_coding | 93 | 85 | 94 | 86 | 0.908 |
| 51665 | NM_001040445,NM | **ASB1** | ankyrin repeat and SOC | protein_coding | 30 | 26 | 31 | 27 | 0.869 |
| 51666 | NM_016116,NM_14 | **ASB4** | ankyrin repeat and SOC | protein_coding | 12 | 11 | 13 | 12 | 0.911 |
| 51667 | NM_001243351,NM | **NUB1** | negative regulator of ubi | protein_coding | 36 | 33 | 37 | 34 | 0.918 |
| 51668 | NM_001316935,NM | **HSPB11** | heat shock protein family | protein_coding | 241 | 240 | 242 | 241 | 0.998 |
| 51669 | NM_001284239,NM | **SARAF** | store-operated calcium e | protein_coding | 57 | 57 | 58 | 58 | 1.000 |
| 51673 | NM_015964,NM_01 | **TPPP3** | tubulin polymerization pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51676 | NM_001202429,NM | **ASB2** | ankyrin repeat and SOC | protein_coding | 41 | 36 | 42 | 37 | 0.891 |
| 51678 | NM_001303037,NM | **MPP6** | membrane palmitoylated | protein_coding | 8 | 7 | 9 | 8 | 0.836 |
| 51684 | NM_001178133,NM | **SUFU** | SUFU negative regulator | protein_coding | 8 | 8 | 9 | 9 | 0.933 |
| 51686 | NM_001134939,NM | **OAZ3** | ornithine decarboxylase | protein_coding | 0 | 0 | 1 | 1 | 1.126 |
| 51690 | NM_016199,XM_01 | **LSM7** | LSM7 homolog, U6 smal | protein_coding | 391 | 421 | 392 | 422 | 1.078 |
| 51691 | NM_016200 | **LSM8** | LSM8 homolog, U6 smal | protein_coding | 18 | 16 | 19 | 17 | 0.908 |
| 51692 | NM_001321833,NM | **CPSF3** | cleavage and polyadenyl | protein_coding | 82 | 78 | 83 | 79 | 0.959 |
| 51693 | NM_001318524,NM | **TRAPPC2L** | trafficking protein particl | protein_coding | 35 | 37 | 36 | 38 | 1.084 |
| 51696 | NM_016217 | **HECA** | hdc homolog, cell cycle | protein_coding | 14 | 13 | 15 | 14 | 0.955 |
| 51699 | NM_001282150,NM | **VPS29** | VPS29 retromer complex | protein_coding | 99 | 93 | 100 | 94 | 0.937 |
| 51700 | NM_001302826,NM | **CYB5R2** | cytochrome b5 reductase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51701 | NM_016231,XM_00 | **NLK** | nemo like kinase | protein_coding | 23 | 20 | 24 | 21 | 0.906 |
| 51702 | NM_016233,XM_01 | **PADI3** | peptidyl arginine deimina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51703 | NM_016234,NM_20 | **ACSL5** | acyl-CoA synthetase lon | protein_coding | 103 | 94 | 104 | 95 | 0.915 |
| 51704 | NM_001304771,NM | **GPRC5B** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51705 | NM_001159694,NM | **EMCN** | endomucin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51706 | NM_016243 | **CYB5R1** | cytochrome b5 reductase | protein_coding | 15 | 13 | 16 | 14 | 0.909 |
| 51710 | NM_001164276,NM | **ZNF44** | zinc finger protein 44 | protein_coding | 8 | 10 | 9 | 11 | 1.244 |
| 51714 | NM_016275 | **SELENOT** | selenoprotein T | protein_coding | 103 | 99 | 104 | 100 | 0.961 |
| 51715 | NM_001278666,NM | **RAB23** | RAB23, member RAS on | protein_coding | 6 | 6 | 7 | 7 | 0.902 |
| 51716 | NR_003276 | **CES1P1** | carboxylesterase 1 pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 51719 | NM_001130849,NM | **CAB39** | calcium binding protein 3 | protein_coding | 177 | 152 | 178 | 153 | 0.857 |
| 51720 | NM_001199297,NM | **UIMC1** | ubiquitin interaction moti | protein_coding | 56 | 53 | 57 | 54 | 0.956 |
| 51725 | NM_016298 | **FBXO40** | F-box protein 40 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51726 | NM_001378451,NM | **DNAJB11** | DnaJ heat shock protein | protein_coding | 310 | 326 | 311 | 327 | 1.050 |
| 51727 | NM_001136140,NM | **CMPK1** | cytidine/uridine monoph | protein_coding | 178 | 156 | 179 | 157 | 0.874 |
| 51728 | NM_016310 | **POLR3K** | RNA polymerase III subu | protein_coding | 129 | 127 | 130 | 128 | 0.988 |
| 51729 | NM_016312 | **WBP11** | WW domain binding pro | protein_coding | 59 | 54 | 60 | 55 | 0.911 |
| 51733 | NM_016327,XM_01 | **UPB1** | beta-ureidopropionase 1 | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 51734 | NM_001382264,NM | **MSRB1** | methionine sulfoxide red | protein_coding | 37 | 38 | 38 | 39 | 1.021 |
| 51735 | NM_001164386,NM | **RAPGEF6** | Rap guanine nucleotide | protein_coding | 26 | 21 | 27 | 22 | 0.828 |
| 51738 | NM_001134941,NM | **GHRL** | ghrelin and obestatin pre | protein_coding | 0 | 0 | 1 | 1 | 0.895 |
| 51741 | NM_001291997,NM | **WWOX** | WW domain containing c | protein_coding | 16 | 16 | 17 | 17 | 1.045 |
| 51742 | NM_001206794,NM | **ARID4B** | AT-rich interaction domai | protein_coding | 23 | 20 | 24 | 21 | 0.871 |
| 51744 | NM_001166663,NM | **CD244** | CD244 molecule | protein_coding | 153 | 149 | 154 | 150 | 0.971 |
| 51747 | NM_001330330,NM | **LUC7L3** | LUC7 like 3 pre-mRNA s | protein_coding | 119 | 93 | 120 | 94 | 0.779 |
| 51750 | NM_001283009,NM | **RTEL1** | regulator of telomere elo | protein_coding | 16 | 12 | 17 | 13 | 0.767 |
| 51751 | NM_001271880,NM | **HIGD1B** | HIG1 hypoxia inducible d | protein_coding | 0 | 0 | 1 | 1 | 0.873 |
| 51752 | NM_001040458,NM | **ERAP1** | endoplasmic reticulum a | protein_coding | 72 | 60 | 73 | 61 | 0.839 |
| 51754 | NM_001042589,NM | **TMEM8B** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.165 |
| 51755 | NM_015083,NM_01 | **CDK12** | cyclin dependent kinase | protein_coding | 71 | 65 | 72 | 66 | 0.913 |
| 51759 | NM_016520,XM_01 | **C9orf78** | chromosome 9 open rea | protein_coding | 253 | 249 | 254 | 250 | 0.983 |
| 51760 | NM_001308157,NM | **SYT17** | synaptotagmin 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51761 | NM_001313741,NM | **ATP8A2** | ATPase phospholipid tra | protein_coding | 1 | 0 | 2 | 1 | 0.948 |
| 51762 | NM_016530,XM_01 | **RAB8B** | RAB8B, member RAS on | protein_coding | 84 | 70 | 85 | 71 | 0.833 |
| 51763 | NM_001135642,NM | **INPP5K** | inositol polyphosphate-5 | protein_coding | 9 | 9 | 10 | 10 | 1.036 |
| 51764 | NM_016541 | **GNG13** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51765 | NM_001042452,NM | **STK26** | serine/threonine kinase 2 | protein_coding | 96 | 83 | 97 | 84 | 0.859 |
| 51768 | NM_016551,XM_00 | **TM7SF3** | transmembrane 7 superf | protein_coding | 55 | 52 | 56 | 53 | 0.948 |
| 51773 | NM_016578,XM_00 | **RSF1** | remodeling and spacing | protein_coding | 22 | 18 | 23 | 19 | 0.858 |
| 51776 | NM_016653,NM_13 | **MAP3K20** | mitogen-activated protein | protein_coding | 34 | 32 | 35 | 33 | 0.938 |
| 51778 | NM_016599,XM_00 | **MYOZ2** | myozenin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51780 | NM_016604,XM_00 | **KDM3B** | lysine demethylase 3B | protein_coding | 39 | 37 | 40 | 38 | 0.937 |
| 51802 | NM_017419,XM_01 | **ASIC5** | acid sensing ion channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51804 | NM_017420,XM_00 | **SIX4** | SIX homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51805 | NM_017421,XM_00 | **COQ3** | coenzyme Q3, methyltra | protein_coding | 11 | 10 | 12 | 11 | 0.961 |
| 51806 | NM_017422 | **CALML5** | calmodulin like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 51807 | NM_001193414,NM | **TUBA8** | tubulin alpha 8 | protein_coding | 1 | 1 | 2 | 2 | 1.102 |
| 51808 | NM_032177 | **PHAX** | phosphorylated adaptor | protein_coding | 46 | 43 | 47 | 44 | 0.942 |
| 51809 | NM_001375599,NM | **GALNT7** | polypeptide N-acetylgala | protein_coding | 20 | 18 | 21 | 19 | 0.913 |
| 51816 | NM_001282225,NM | **ADA2** | adenosine deaminase 2 | protein_coding | 10 | 9 | 11 | 10 | 0.909 |
| 53335 | NM_001363864,NM | **BCL11A** | BAF chromatin remodelir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53336 | NM_001184771,NM | **CPXCR1** | CPX chromosome region | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53338 | gene-CAPZA1P1 | **CAPZA1P1** | CAPZA1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 53339 | NM_001011885,NM | **BTBD1** | BTB domain containing 1 | protein_coding | 129 | 115 | 130 | 116 | 0.893 |
| 53340 | NM_017425,XM_01 | **SPA17** | sperm autoantigenic pro | protein_coding | 5 | 4 | 6 | 5 | 0.854 |
| 53342 | NM_138284,XM_00 | **IL17D** | interleukin 17D | protein_coding | 3 | 3 | 4 | 4 | 1.095 |
| 53343 | NM_001248011,NM | **NUDT9** | nudix hydrolase 9 | protein_coding | 5 | 5 | 6 | 6 | 0.998 |
| 53344 | NM_001039840,NM | **CHIC1** | cysteine rich hydrophobi | protein_coding | 5 | 5 | 6 | 6 | 0.938 |
| 53345 | NM_001001524 | **TM6SF2** | transmembrane 6 superf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53346 | NM_001144903,NM | **TM6SF1** | transmembrane 6 superf | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 53347 | NM_001001895,NM | **UBASH3A** | ubiquitin associated and | protein_coding | 21 | 21 | 22 | 22 | 0.982 |
| 53349 | NM_001281734,NM | **ZFYVE1** | zinc finger FYVE-type co | protein_coding | 5 | 6 | 6 | 7 | 1.090 |
| 53353 | NM_018557,XM_01 | **LRP1B** | LDL receptor related pro | protein_coding | 2 | 2 | 3 | 3 | 0.929 |
| 53354 | NM_138316,NM_14 | **PANK1** | pantothenate kinase 1 | protein_coding | 6 | 5 | 7 | 6 | 0.848 |
| 53358 | NM_016848,XM_01 | **SHC3** | SHC adaptor protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53371 | NM_001278603,NM | **NUP54** | nucleoporin 54 | protein_coding | 73 | 67 | 74 | 68 | 0.924 |
| 53373 | NM_001143819,NM | **TPCN1** | two pore segment chann | protein_coding | 2 | 1 | 3 | 2 | 0.862 |
| 53383 | gene-MCUR1P1 | **MCUR1P1** | MCUR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.076 |
| 53405 | NM_001114086,NM | **CLIC5** | chloride intracellular cha | protein_coding | 0 | 0 | 1 | 1 | 1.061 |
| 53407 | NM_001346281,NM | **STX18** | syntaxin 18 | protein_coding | 38 | 40 | 39 | 41 | 1.060 |
| 53409 | gene-ATP5MGP3 | **ATP5MGP3** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 53410 | gene-ATP5MGP2 | **ATP5MGP2** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 53615 | NM_001281453,NM | **MBD3** | methyl-CpG binding dom | protein_coding | 45 | 49 | 46 | 50 | 1.084 |
| 53616 | NM_001324417,NM | **ADAM22** | ADAM metallopeptidase | protein_coding | 4 | 3 | 5 | 4 | 0.950 |
| 53630 | NM_017429,XM_01 | **BCO1** | beta-carotene oxygenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53632 | NM_017431,XM_01 | **PRKAG3** | protein kinase AMP-activ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53635 | NM_001305105,NM | **PTOV1** | PTOV1 extended AT-hoo | protein_coding | 21 | 23 | 22 | 24 | 1.075 |
| 53637 | NM_001166215,NM | **S1PR5** | sphingosine-1-phosphate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53820 | NM_001317768,NM | **RIPPLY3** | ripply transcriptional rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53822 | NM_022006 | **FXYD7** | FXYD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53826 | NM_001164831,NM | **FXYD6** | FXYD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53827 | NM_001164605,NM | **FXYD5** | FXYD domain containing | protein_coding | 264 | 286 | 265 | 287 | 1.085 |
| 53828 | NM_173160 | **FXYD4** | FXYD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53829 | NM_176894,XM_00 | **P2RY13** | purinergic receptor P2Y1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53831 | NM_020370,XM_01 | **GPR84** | G protein-coupled recep | protein_coding | 1 | 1 | 2 | 2 | 1.219 |
| 53832 | NM_001278722,NM | **IL20RA** | interleukin 20 receptor s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53833 | NM_144717,XM_00 | **IL20RB** | interleukin 20 receptor s | protein_coding | 1 | 1 | 2 | 2 | 1.104 |
| 53834 | NM_001004356,NM | **FGFRL1** | fibroblast growth factor r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53836 | NM_023915 | **GPR87** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.134 |
| 53838 | NM_001300913,NM | **C11orf24** | chromosome 11 open rea | protein_coding | 37 | 40 | 38 | 41 | 1.074 |
| 53840 | NM_001003827,NM | **TRIM34** | tripartite motif containing | protein_coding | 10 | 11 | 11 | 12 | 1.068 |
| 53841 | NM_001171968,NM | **CDHR5** | cadherin related family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53842 | NM_001111319 | **CLDN22** | claudin 22 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53844 | NR_024086 | **COPG2IT1** | COPG2 imprinted transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 53904 | NM_001368265,NM | **MYO3A** | myosin IIIA | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53905 | NM_017434,NM_17 | **DUOX1** | dual oxidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53916 | NM_016154 | **RAB4B** | RAB4B, member RAS on | protein_coding | 13 | 15 | 14 | 16 | 1.169 |
| 53917 | NM_001031677,NM | **RAB24** | RAB24, member RAS on | protein_coding | 14 | 14 | 15 | 15 | 1.001 |
| 53918 | NM_015946 | **PELO** | pelota mRNA surveillanc | protein_coding | 14 | 14 | 15 | 15 | 1.013 |
| 53919 | NM_001145944,NM | **SLCO1C1** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 53938 | NM_032472,NM_13 | **PPIL3** | peptidylprolyl isomerase | protein_coding | 71 | 71 | 72 | 72 | 0.989 |
| 53940 | NM_031894 | **FTHL17** | ferritin heavy chain like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53942 | NM_001243270,NM | **CNTN5** | contactin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53944 | NM_001329605,NM | **CSNK1G1** | casein kinase 1 gamma 1 | protein_coding | 19 | 16 | 20 | 17 | 0.867 |
| 53947 | NM_001318038,NM | **A4GALT** | alpha 1,4-galactosyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 53981 | NM_001322270,NM | **CPSF2** | cleavage and polyadenyl | protein_coding | 31 | 27 | 32 | 28 | 0.871 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54014 | NM_001007246,NM | **BRWD1** | bromodomain and WD re | protein_coding | 9 | 8 | 10 | 9 | 0.907 |
| 54019 | gene-SLC6A6P1 | **SLC6A6P1** | solute carrier family 6 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54020 | NM_001320537,NM | **SLC37A1** | solute carrier family 37 m | protein_coding | 18 | 17 | 19 | 18 | 0.926 |
| 54021 | gene-SRSF9P1 | **SRSF9P1** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 0.875 |
| 54027 | gene-RPL31P1 | **RPL31P1** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54028 | gene-RPL23P2 | **RPL23P2** | ribosomal protein L23 ps | pseudogene | 1 | 1 | 2 | 2 | 1.316 |
| 54029 | gene-RPL23AP4 | **RPL23AP4** | ribosomal protein L23a p | pseudogene | 2 | 1 | 3 | 2 | 0.836 |
| 54031 | gene-RIMKLBP1 | **RIMKLBP1** | ribosomal modification pı | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54033 | NM_001320602,NM | **RBM11** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54035 | gene-PSMD4P1 | **PSMD4P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54036 | NR_144547 | **PPP1R2P2** | protein phosphatase 1 re | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 54038 | gene-POLR2CP1 | **POLR2CP1** | RNA polymerase II subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54039 | NM_001130141,NM | **PCBP3** | poly(rC) binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54043 | gene-MYL6P1 | **MYL6P1** | myosin light chain 6 pse | pseudogene | 0 | 0 | 1 | 1 | 0.793 |
| 54044 | gene-KRT18P2 | **KRT18P2** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54047 | gene-HSPD1P7 | **HSPD1P7** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54048 | gene-HMGN1P2 | **HMGN1P2** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54049 | gene-H2AZP1 | **H2AZP1** | H2A.Z histone pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54050 | gene-GAPDHP14 | **GAPDHP14** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54051 | gene-FDPSP6 | **FDPSP6** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54052 | gene-EIF4A1P1 | **EIF4A1P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54053 | gene-EIF3FP1 | **EIF3FP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.920 |
| 54054 | gene-EEF1A1P1 | **EEF1A1P1** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 54055 | NR_026755 | **CYP4F29P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 54058 | NM_001286462,NM | **C21orf58** | chromosome 21 open rea | protein_coding | 14 | 12 | 15 | 13 | 0.879 |
| 54059 | NM_001006114,NM | **YBEY** | ybeY metalloendoribonu | protein_coding | 17 | 20 | 18 | 21 | 1.163 |
| 54064 | NR_024351 | **LINC00160** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54065 | NM_001376899,NM | **SMIM11A** | small integral membrane | protein_coding | 21 | 20 | 22 | 21 | 0.938 |
| 54067 | NR_024622,NR_02 | **C21orf62-AS1** | C21orf62 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.002 |
| 54069 | NM_018944,XM_01 | **MIS18A** | MIS18 kinetochore protei | protein_coding | 79 | 80 | 80 | 81 | 1.008 |
| 54072 | NR_024027 | **LINC00158** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54075 | NR_024354 | **CHODL-AS1** | CHODL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54082 | NR_103707 | **TSPEAR-AS1** | TSPEAR antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54084 | NM_001272037,NM | **TSPEAR** | thrombospondin type lan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54088 | NR_024357 | **LINC00113** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54089 | NR_024028 | **LINC00112** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54090 | NR_024367 | **LINC00111** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54093 | NM_001007259,NM | **SETD4** | SET domain containing 4 | protein_coding | 8 | 8 | 9 | 9 | 1.016 |
| 54097 | NM_058186,NM_20 | **FAM3B** | FAM3 metabolism regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54098 | gene-C1QBPP1 | **C1QBPP1** | complement C1q binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54101 | NM_020639 | **RIPK4** | receptor interacting serin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54102 | NM_001317009,NM | **CLIC6** | chloride intracellular cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54103 | NM_001350896,NM | **GSAP** | gamma-secretase activat | protein_coding | 5 | 5 | 6 | 6 | 1.119 |
| 54106 | NM_017442 | **TLR9** | toll like receptor 9 | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 54107 | NM_001278255,NM | **POLE3** | DNA polymerase epsilon | protein_coding | 230 | 241 | 231 | 242 | 1.048 |
| 54108 | NM_017444,NR_02 | **CHRAC1** | chromatin accessibility cı | protein_coding | 28 | 24 | 29 | 25 | 0.845 |
| 54112 | NM_022049 | **GPR88** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54143 | NR_038400 | **LINC00308** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54145 | NM_017445 | **H2BS1** | H2B.S histone 1 | protein_coding | 1 | 1 | 2 | 2 | 1.333 |
| 54147 | NR_146594 | **BACH1-IT3** | BACH1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54148 | NM_017446,NM_08 | **MRPL39** | mitochondrial ribosomal | protein_coding | 88 | 78 | 89 | 79 | 0.888 |
| 54149 | NM_001100420,NM | **C21orf91** | chromosome 21 open rea | protein_coding | 53 | 47 | 54 | 48 | 0.893 |
| 54165 | NM_001308101,NM | **DCUN1D1** | defective in cullin neddyl | protein_coding | 25 | 19 | 26 | 20 | 0.781 |
| 54187 | NM_018946,XM_01 | **NANS** | N-acetylneuraminate syn | protein_coding | 94 | 93 | 95 | 94 | 0.989 |
| 54205 | NM_018947 | **CYCS** | cytochrome c, somatic | protein_coding | 183 | 172 | 184 | 173 | 0.938 |
| 54206 | NM_018948,XM_00 | **ERRFI1** | ERBB receptor feedback | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54207 | NM_021161,NM_13 | **KCNK10** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54209 | NM_001271821,NM | **TREM2** | triggering receptor expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54210 | NM_001242589,NM | **TREM1** | triggering receptor expre | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 54212 | NM_001287813,NM | **SNTG1** | syntrophin gamma 1 | protein_coding | 1 | 1 | 2 | 2 | 1.098 |
| 54221 | NM_018968,XM_01 | **SNTG2** | syntrophin gamma 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54328 | NM_018969,XM_01 | **GPR173** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54329 | NM_001146265,NM | **GPR85** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 54331 | NM_001243773,NM | **GNG2** | G protein subunit gamma | protein_coding | 265 | 235 | 266 | 236 | 0.887 |
| 54332 | NM_001040875,NM | **GDAP1** | ganglioside induced diffe | protein_coding | 19 | 20 | 20 | 21 | 1.060 |
| 54344 | NM_018973,NM_15 | **DPM3** | dolichyl-phosphate mann | protein_coding | 22 | 29 | 23 | 30 | 1.302 |
| 54345 | NM_018419 | **SOX18** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54346 | NM_001143947,NM | **UNC93A** | unc-93 homolog A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54360 | NM_018659,XM_01 | **CYTL1** | cytokine like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54361 | NM_030761,XM_01 | **WNT4** | Wnt family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54363 | NM_017545 | **HAO1** | hydroxyacid oxidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54386 | NM_018975,NR_14 | **TERF2IP** | TERF2 interacting protei | protein_coding | 143 | 145 | 144 | 146 | 1.011 |
| 54407 | NM_001307936,NM | **SLC38A2** | solute carrier family 38 m | protein_coding | 39 | 26 | 40 | 27 | 0.671 |
| 54413 | NM_001166660,NM | **NLGN3** | neuroligin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 54414 | NM_001199922,NM | **SIAE** | sialic acid acetylesterase | protein_coding | 2 | 3 | 3 | 4 | 1.140 |
| 54429 | NM_018980 | **TAS2R5** | taste 2 receptor member | protein_coding | 0 | 1 | 1 | 2 | 1.560 |
| 54431 | NM_001271581,NM | **DNAJC10** | DnaJ heat shock protein | protein_coding | 23 | 21 | 24 | 22 | 0.901 |
| 54432 | NM_018982,NR_03 | **YIPF1** | Yip1 domain family mem | protein_coding | 23 | 22 | 24 | 23 | 0.955 |
| 54433 | NM_018983,NM_03 | **GAR1** | GAR1 ribonucleoprotein | protein_coding | 148 | 145 | 149 | 146 | 0.982 |
| 54434 | NM_001161330,NM | **SSH1** | slingshot protein phosph | protein_coding | 29 | 28 | 30 | 29 | 0.957 |
| 54435 | NR_002139 | **HCG4** | HLA complex group 4 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54436 | NM_001318480,NM | **SH3TC1** | SH3 domain and tetratric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54437 | NM_001031702,NM | **SEMA5B** | semaphorin 5B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54438 | NM_001242628,NM | **GFOD1** | glucose-fructose oxidore | protein_coding | 23 | 20 | 24 | 21 | 0.867 |
| 54439 | NM_018989,XM_00 | **RBM27** | RNA binding motif protei | protein_coding | 53 | 46 | 54 | 47 | 0.878 |
| 54440 | NM_018990,XM_00 | **SASH3** | SAM and SH3 domain co | protein_coding | 515 | 511 | 516 | 512 | 0.991 |
| 54441 | NR_040583 | **STAG3L1** | stromal antigen 3-like 1 ( | transcribed_pseu | 11 | 9 | 12 | 10 | 0.819 |
| 54442 | NM_018992 | **KCTD5** | potassium channel tetra | protein_coding | 141 | 152 | 142 | 153 | 1.081 |
| 54443 | NM_001284301,NM | **ANLN** | anillin actin binding prote | protein_coding | 19 | 16 | 20 | 17 | 0.854 |
| 54453 | NM_001242581,NM | **RIN2** | Ras and Rab interactor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54454 | NM_001242338,NM | **ATAD2B** | ATPase family AAA doma | protein_coding | 10 | 8 | 11 | 9 | 0.841 |
| 54455 | NM_018994,XM_00 | **FBXO42** | F-box protein 42 | protein_coding | 15 | 15 | 16 | 16 | 1.017 |
| 54456 | NM_001164104,NM | **MOV10L1** | Mov10 like RISC comple | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54457 | NM_001168474,NM | **TAF7L** | TATA-box binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 54458 | NM_001005354,NM | **PRR13** | proline rich 13 | protein_coding | 332 | 344 | 333 | 345 | 1.039 |
| 54460 | NM_018997,NM_03 | **MRPS21** | mitochondrial ribosomal | protein_coding | 93 | 106 | 94 | 107 | 1.140 |
| 54461 | NM_018998,XM_00 | **FBXW5** | F-box and WD repeat do | protein_coding | 44 | 43 | 45 | 44 | 0.965 |
| 54462 | NM_001284240,NM | **CCSER2** | coiled-coil serine rich prc | protein_coding | 8 | 6 | 9 | 7 | 0.789 |
| 54463 | NM_001034850,NM | **RETREG1** | reticulophagy regulator 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54464 | NM_001282857,NM | **XRN1** | 5'-3' exoribonuclease 1 | protein_coding | 20 | 16 | 21 | 17 | 0.783 |
| 54465 | NM_019002,XM_01 | **ETAA1** | ETAA1 activator of ATR k | protein_coding | 9 | 7 | 10 | 8 | 0.801 |
| 54466 | NM_019003,XM_00 | **SPIN2A** | spindlin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54467 | NM_019004 | **ANKIB1** | ankyrin repeat and IBR d | protein_coding | 36 | 30 | 37 | 31 | 0.852 |
| 54468 | NM_001370076,NM | **MIOS** | meiosis regulator for ooc | protein_coding | 13 | 12 | 14 | 13 | 0.961 |
| 54469 | NM_001242911,NM | **ZFAND6** | zinc finger AN1-type con | protein_coding | 123 | 107 | 124 | 108 | 0.873 |
| 54470 | NM_001009584,NM | **ARMCX6** | armadillo repeat containi | protein_coding | 18 | 19 | 19 | 20 | 1.075 |
| 54471 | NM_001304564,NM | **MIEF1** | mitochondrial elongation | protein_coding | 56 | 52 | 57 | 53 | 0.927 |
| 54472 | NM_001318512,NM | **TOLLIP** | toll interacting protein | protein_coding | 26 | 26 | 27 | 27 | 1.022 |
| 54474 | NM_019010 | **KRT20** | keratin 20 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54475 | NM_001014445,NM | **NLE1** | notchless homolog 1 | protein_coding | 38 | 38 | 39 | 39 | 1.009 |
| 54476 | NM_001377156,NM | **RNF216** | ring finger protein 216 | protein_coding | 19 | 18 | 20 | 19 | 0.939 |
| 54477 | NM_001143821,NM | **PLEKHA5** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54478 | NM_001195228,NM | **PIMREG** | PICALM interacting mitot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54480 | NM_001284295,NM | **CHPF2** | chondroitin polymerizing | protein_coding | 13 | 13 | 14 | 14 | 0.965 |
| 54482 | NM_019083,NR_13 | **TRMT13** | tRNA methyltransferase | protein_coding | 25 | 21 | 26 | 22 | 0.868 |
| 54487 | NM_001190326,NM | **DGCR8** | DGCR8 microprocessor c | protein_coding | 24 | 23 | 25 | 24 | 0.978 |
| 54490 | NM_001207004,NM | **UGT2B28** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54491 | NM_019018,XM_01 | **OTULINL** | OTU deubiquitinase with | protein_coding | 12 | 9 | 13 | 10 | 0.749 |
| 54492 | NM_001142651,NM | **NEURL1B** | neuralized E3 ubiquitin p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54494 | NM_001271562,NM | **C11orf71** | chromosome 11 open rea | protein_coding | 10 | 12 | 11 | 13 | 1.191 |
| 54495 | NM_001350512,NM | **TMX3** | thioredoxin related transı | protein_coding | 56 | 47 | 57 | 48 | 0.851 |
| 54496 | NM_001184824,NM | **PRMT7** | protein arginine methyltr | protein_coding | 20 | 18 | 21 | 19 | 0.876 |
| 54497 | NM_019024,XM_00 | **HEATR5B** | HEAT repeat containing | protein_coding | 11 | 10 | 12 | 11 | 0.925 |
| 54498 | NM_001270691,NM | **SMOX** | spermine oxidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54499 | NM_001256164,NM | **TMCO1** | transmembrane and coil | protein_coding | 135 | 134 | 136 | 135 | 0.992 |
| 54502 | NM_001098634,NM | **RBM47** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 0.945 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54503 | NM_001001483,NM | **ZDHHC13** | zinc finger DHHC-type pa | protein_coding | 33 | 30 | 34 | 31 | 0.910 |
| 54504 | NM_001348052,NM | **CPVL** | carboxypeptidase vitelloc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54505 | NM_001345964,NM | **DHX29** | DExH-box helicase 29 | protein_coding | 35 | 29 | 36 | 30 | 0.841 |
| 54507 | NM_001288607,NM | **ADAMTSL4** | ADAMTS like 4 | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 54508 | NR_027706 | **EPB41L4A-DT** | EPB41L4A divergent trar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 54509 | NM_019034 | **RHOF** | ras homolog family mem | protein_coding | 58 | 53 | 59 | 54 | 0.920 |
| 54510 | NM_001300828,NM | **PCDH18** | protocadherin 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54511 | NM_001042406,NM | **HMGCLL1** | 3-hydroxymethyl-3-meth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54512 | NM_019037,XM_01 | **EXOSC4** | exosome component 4 | protein_coding | 42 | 42 | 43 | 43 | 0.987 |
| 54514 | NM_001142549,NM | **DDX4** | DEAD-box helicase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 54516 | NM_001114184,NM | **MTRF1L** | mitochondrial translation | protein_coding | 21 | 19 | 22 | 20 | 0.891 |
| 54517 | NM_001318163,NM | **PUS7** | pseudouridine synthase | protein_coding | 46 | 38 | 47 | 39 | 0.827 |
| 54518 | NM_019043,XM_00 | **APBB1IP** | amyloid beta precursor p | protein_coding | 5 | 6 | 6 | 7 | 1.151 |
| 54520 | NM_019044,XM_00 | **CCDC93** | coiled-coil domain contai | protein_coding | 23 | 21 | 24 | 22 | 0.910 |
| 54521 | NM_001184965,NM | **WDR44** | WD repeat domain 44 | protein_coding | 16 | 15 | 17 | 16 | 0.928 |
| 54522 | NM_001009941,NM | **ANKRD16** | ankyrin repeat domain 1 | protein_coding | 4 | 4 | 5 | 5 | 0.899 |
| 54529 | NM_001353497,NM | **ASNSD1** | asparagine synthetase d | protein_coding | 94 | 81 | 95 | 82 | 0.864 |
| 54531 | NM_001346105,NM | **MIER2** | MIER family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54532 | NM_001371395,NM | **USP53** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54534 | NM_019051 | **MRPL50** | mitochondrial ribosomal | protein_coding | 35 | 32 | 36 | 33 | 0.933 |
| 54535 | NM_001105563,NM | **CCHCR1** | coiled-coil alpha-helical r | protein_coding | 28 | 30 | 29 | 31 | 1.097 |
| 54536 | NM_001013848,NM | **EXOC6** | exocyst complex compor | protein_coding | 13 | 12 | 14 | 13 | 0.886 |
| 54537 | NM_001330112,NM | **SHLD2** | shieldin complex subunit | protein_coding | 57 | 45 | 58 | 46 | 0.783 |
| 54538 | NM_001301088,NM | **ROBO4** | roundabout guidance rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54539 | NM_001135998,NM | **NDUFB11** | NADH:ubiquinone oxidor | protein_coding | 276 | 298 | 277 | 299 | 1.081 |
| 54540 | NM_001190946,NM | **FAM193B** | family with sequence sim | protein_coding | 14 | 15 | 15 | 16 | 1.071 |
| 54541 | NM_019058 | **DDIT4** | DNA damage inducible t | protein_coding | 337 | 329 | 338 | 330 | 0.975 |
| 54542 | NM_001100588,NM | **RC3H2** | ring finger and CCCH-ty | protein_coding | 28 | 24 | 29 | 25 | 0.854 |
| 54543 | NM_019059,NR_16 | **TOMM7** | translocase of outer mito | protein_coding | 196 | 212 | 197 | 213 | 1.083 |
| 54544 | NM_019060,XM_01 | **CRCT1** | cysteine rich C-terminal | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54545 | NM_001040446,NM | **MTMR12** | myotubularin related pro | protein_coding | 22 | 21 | 23 | 22 | 0.948 |
| 54546 | NM_019062 | **RNF186** | ring finger protein 186 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54549 | NM_001144952,XM | **SDK2** | sidekick cell adhesion m | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 54550 | NM_001329748,NM | **NECAB2** | N-terminal EF-hand calc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54551 | NM_019066 | **MAGEL2** | MAGE family member L2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54552 | NM_001184819,NM | **GNL3L** | G protein nucleolar 3 like | protein_coding | 50 | 44 | 51 | 45 | 0.892 |
| 54553 | NR_033797 | **MIR4453HG** | MIR4453 host gene | lncRNA | 7 | 6 | 8 | 7 | 0.966 |
| 54554 | NM_019069 | **WDR5B** | WD repeat domain 5B | protein_coding | 6 | 6 | 7 | 7 | 0.978 |
| 54555 | NM_019070,NR_03 | **DDX49** | DEAD-box helicase 49 | protein_coding | 145 | 154 | 146 | 155 | 1.064 |
| 54556 | NM_019071,NM_19 | **ING3** | inhibitor of growth family | protein_coding | 34 | 34 | 35 | 35 | 0.994 |
| 54557 | NM_019072,XM_00 | **SGTB** | small glutamine rich tetra | protein_coding | 7 | 5 | 8 | 6 | 0.723 |
| 54558 | NM_001286238,NM | **SPATA6** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54566 | NM_018424,NM_01 | **EPB41L4B** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54567 | NM_019074 | **DLL4** | delta like canonical Notcl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54568 | gene-UGT2B29P | **UGT2B29P** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54569 | gene-UGT2B27P | **UGT2B27P** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54570 | gene-UGT2B26P | **UGT2B26P** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54571 | gene-UGT2B25P | **UGT2B25P** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54572 | gene-UGT2B24P | **UGT2B24P** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 54575 | NM_019075 | **UGT1A10** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54576 | NM_019076 | **UGT1A8** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54577 | NM_019077 | **UGT1A7** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54578 | NM_001072,NM_20 | **UGT1A6** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54579 | NM_019078 | **UGT1A5** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54581 | NR_003654,NR_00 | **SCAND2P** | SCAN domain containing | transcribed_pseu | 3 | 2 | 4 | 3 | 0.746 |
| 54583 | NM_001377260,NM | **EGLN1** | egl-9 family hypoxia indu | protein_coding | 16 | 15 | 17 | 16 | 0.954 |
| 54584 | NM_053004 | **GNB1L** | G protein subunit beta 1 | protein_coding | 4 | 5 | 5 | 6 | 1.109 |
| 54585 | NM_001276378,NM | **LZTFL1** | leucine zipper transcripti | protein_coding | 0 | 0 | 1 | 1 | 0.885 |
| 54586 | NM_001161585,NM | **EQTN** | equatorin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54587 | NM_001282582,NM | **MXRA8** | matrix remodeling associ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54596 | NM_001164835,NM | **L1TD1** | LINE1 type transposase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54600 | NM_021027 | **UGT1A9** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54602 | NM_001161407,NM | **NDFIP2** | Nedd4 family interacting | protein_coding | 27 | 21 | 28 | 22 | 0.803 |
| 54606 | NM_001257189,NM | **DDX56** | DEAD-box helicase 56 | protein_coding | 42 | 42 | 43 | 43 | 0.992 |
| 54617 | NM_017553,NR_10 | **INO80** | INO80 complex ATPase | protein_coding | 32 | 29 | 33 | 30 | 0.927 |
| 54619 | NM_001134375,NM | **CCNJ** | cyclin J | protein_coding | 9 | 9 | 10 | 10 | 0.967 |
| 54620 | NM_001099784,NM | **FBXL19** | F-box and leucine rich re | protein_coding | 27 | 27 | 28 | 28 | 0.988 |
| 54621 | NM_019086,XM_00 | **VSIG10** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 54622 | NM_019087,XM_01 | **ARL15** | ADP ribosylation factor li | protein_coding | 6 | 5 | 7 | 6 | 0.883 |
| 54623 | NM_001256826,NM | **PAF1** | PAF1 homolog, Paf1/RN | protein_coding | 87 | 85 | 88 | 86 | 0.983 |
| 54625 | NM_017554,XM_01 | **PARP14** | poly(ADP-ribose) polyme | protein_coding | 116 | 92 | 117 | 93 | 0.798 |
| 54626 | NM_019089 | **HES2** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54627 | NM_019090 | **MAP10** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54629 | NM_001040450,NM | **MINDY2** | MINDY lysine 48 deubiq | protein_coding | 5 | 5 | 6 | 6 | 0.913 |
| 54657 | NM_007120 | **UGT1A4** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54658 | NM_000463 | **UGT1A1** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54659 | NM_019093 | **UGT1A3** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54660 | NR_001281 | **PCDHB18P** | protocadherin beta 18 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 54661 | NR_001280 | **PCDHB17P** | protocadherin beta 17 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.001 |
| 54662 | NM_001286772,NM | **TBC1D13** | TBC1 domain family mer | protein_coding | 16 | 15 | 17 | 16 | 0.976 |
| 54663 | NM_001307977,NM | **WDR74** | WD repeat domain 74 | protein_coding | 123 | 130 | 124 | 131 | 1.058 |
| 54664 | NM_001134232,NM | **TMEM106B** | transmembrane protein 1 | protein_coding | 6 | 5 | 7 | 6 | 0.908 |
| 54665 | NM_018364,NR_13 | **RSBN1** | round spermatid basic pr | protein_coding | 19 | 16 | 20 | 17 | 0.865 |
| 54674 | NM_001099658,NM | **LRRN3** | leucine rich repeat neurc | protein_coding | 4 | 3 | 5 | 4 | 0.801 |
| 54675 | NM_001127458,NM | **CRLS1** | cardiolipin synthase 1 | protein_coding | 30 | 29 | 31 | 30 | 0.982 |
| 54676 | NM_001286216,NM | **GTPBP2** | GTP binding protein 2 | protein_coding | 31 | 30 | 32 | 31 | 0.959 |
| 54677 | NM_001143935,NM | **CROT** | carnitine O-octanoyltrans | protein_coding | 14 | 12 | 15 | 13 | 0.843 |
| 54680 | NM_001170670,NM | **ZNHIT6** | zinc finger HIT-type cont | protein_coding | 47 | 45 | 48 | 46 | 0.957 |
| 54681 | NM_177938,NM_17 | **P4HTM** | prolyl 4-hydroxylase, trar | protein_coding | 3 | 5 | 4 | 6 | 1.536 |
| 54682 | NM_001363613,NM | **MANSC1** | MANSC domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54700 | NM_001301064,NM | **RRN3** | RRN3 homolog, RNA pol | protein_coding | 117 | 101 | 118 | 102 | 0.860 |
| 54704 | NM_001161779,NM | **PDP1** | pyruvate dehyrogenase p | protein_coding | 13 | 13 | 14 | 14 | 0.955 |
| 54707 | NM_018066 | **GPN2** | GPN-loop GTPase 2 | protein_coding | 25 | 25 | 26 | 26 | 0.980 |
| 54708 | NM_017824,XM_01 | **MARCHF5** | membrane associated rir | protein_coding | 22 | 18 | 23 | 19 | 0.815 |
| 54714 | NM_019098,XM_01 | **CNGB3** | cyclic nucleotide gated c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54715 | NM_001142333,NM | **RBFOX1** | RNA binding fox-1 homo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54716 | NM_020208,NM_02 | **SLC6A20** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54718 | NR_027795 | **BTN2A3P** | butyrophilin subfamily 2 | transcribed_pseu | 2 | 1 | 3 | 2 | 0.625 |
| 54726 | NM_001102653,NM | **OTUD4** | OTU deubiquitinase 4 | protein_coding | 29 | 25 | 30 | 26 | 0.862 |
| 54729 | NM_001290079 | **NKX1-1** | NK1 homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54732 | NM_017510 | **TMED9** | transmembrane p24 traff | protein_coding | 169 | 179 | 170 | 180 | 1.061 |
| 54733 | NM_017515 | **SLC35F2** | solute carrier family 35 m | protein_coding | 105 | 99 | 106 | 100 | 0.944 |
| 54734 | NM_017516 | **RAB39A** | RAB39A, member RAS o | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54737 | NM_017520,XM_01 | **MPHOSPH8** | M-phase phosphoprotein | protein_coding | 42 | 40 | 43 | 41 | 0.942 |
| 54738 | NM_017521 | **FEV** | FEV transcription factor, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54739 | NM_001353134,NM | **XAF1** | XIAP associated factor 1 | protein_coding | 33 | 30 | 34 | 31 | 0.903 |
| 54741 | NM_001198681,NM | **LEPROT** | leptin receptor overlappir | protein_coding | 16 | 15 | 17 | 16 | 0.906 |
| 54742 | NM_001160354,NM | **LY6K** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54749 | NM_001242946,NM | **EPDR1** | ependymin related 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54751 | NM_001024215,NM | **FBLIM1** | filamin binding LIM prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54752 | NM_017559 | **FNDC8** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 54753 | NM_001353546,NM | **ZNF853** | zinc finger protein 853 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 54754 | NM_017561 | **NUTM2F** | NUT family member 2F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54756 | NM_001318864,NM | **IL17RD** | interleukin 17 receptor D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54757 | NM_001243746,NM | **FAM20A** | FAM20A golgi associatec | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 54758 | NM_001184854,NM | **KLHDC4** | kelch domain containing | protein_coding | 57 | 52 | 58 | 53 | 0.906 |
| 54760 | NM_017573,XM_00 | **PCSK4** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54762 | NM_001172105,NM | **GRAMD1C** | GRAM domain containing | protein_coding | 4 | 3 | 5 | 4 | 0.736 |
| 54763 | NM_001317774,NM | **ROPN1** | rhophilin associated tail p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54764 | NM_017580,XM_00 | **ZRANB1** | zinc finger RANBP2-type | protein_coding | 11 | 11 | 12 | 12 | 0.968 |
| 54765 | NM_017583,XM_00 | **TRIM44** | tripartite motif containing | protein_coding | 28 | 26 | 29 | 27 | 0.922 |
| 54766 | NM_001367974,NM | **BTG4** | BTG anti-proliferation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54768 | NM_001198542,NM | **HYDIN** | HYDIN axonemal central | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54769 | NM_017594 | **DIRAS2** | DIRAS family GTPase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54776 | NM_001271618,NM | **PPP1R12C** | protein phosphatase 1 re | protein_coding | 47 | 47 | 48 | 48 | 1.007 |
| 54777 | NM_001200049 | **CFAP46** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54778 | NM_001270528,NM | **RNF111** | ring finger protein 111 | protein_coding | 17 | 19 | 18 | 20 | 1.058 |
| 54780 | NM_001167865,NM | **NSMCE4A** | NSE4 homolog A, SMC5 | protein_coding | 64 | 57 | 65 | 58 | 0.901 |
| 54784 | NM_017621,XM_00 | **ALKBH4** | alkB homolog 4, lysine d | protein_coding | 19 | 22 | 20 | 23 | 1.134 |
| 54785 | NM_017622 | **BORCS6** | BLOC-1 related complex | protein_coding | 9 | 10 | 10 | 11 | 1.109 |
| 54788 | NM_001002762,NM | **DNAJB12** | DnaJ heat shock protein | protein_coding | 21 | 21 | 22 | 22 | 1.004 |
| 54790 | NM_001127208,NM | **TET2** | tet methylcytosine dioxyg | protein_coding | 0 | 0 | 1 | 1 | 0.943 |
| 54793 | NM_017634,XR_00 | **KCTD9** | potassium channel tetra | protein_coding | 36 | 27 | 37 | 28 | 0.750 |
| 54795 | NM_001195227,NM | **TRPM4** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54796 | NM_001317939,NM | **BNC2** | basonuclin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54797 | NM_001127350,NM | **MED18** | mediator complex subun | protein_coding | 23 | 24 | 24 | 25 | 1.037 |
| 54798 | NM_001142552,NM | **DCHS2** | dachsous cadherin-relate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54799 | NM_017643,XM_00 | **MBTD1** | mbt domain containing 1 | protein_coding | 12 | 11 | 13 | 12 | 0.937 |
| 54800 | NM_001349413,NM | **KLHL24** | kelch like family member | protein_coding | 2 | 2 | 3 | 3 | 0.934 |
| 54801 | NM_001270890,NM | **HAUS6** | HAUS augmin like compl | protein_coding | 35 | 29 | 36 | 30 | 0.828 |
| 54802 | NM_001312691,NM | **TRIT1** | tRNA isopentenyltransfe | protein_coding | 20 | 19 | 21 | 20 | 0.957 |
| 54805 | NM_017649,NM_19 | **CNNM2** | cyclin and CBS domain c | protein_coding | 2 | 2 | 3 | 3 | 0.957 |
| 54806 | NM_001134830,NM | **AHI1** | Abelson helper integratic | protein_coding | 7 | 5 | 8 | 6 | 0.761 |
| 54807 | NM_001077426,NM | **ZNF586** | zinc finger protein 586 | protein_coding | 1 | 1 | 2 | 2 | 1.056 |
| 54808 | NM_001353210,NM | **DYM** | dymeclin | protein_coding | 11 | 8 | 12 | 9 | 0.739 |
| 54809 | NM_001193307,NM | **SAMD9** | sterile alpha motif domai | protein_coding | 65 | 47 | 66 | 48 | 0.724 |
| 54810 | NM_001304725,NM | **GIPC2** | GIPC PDZ domain conta | protein_coding | 0 | 0 | 1 | 1 | 0.896 |
| 54811 | NM_001130031,NM | **ZNF562** | zinc finger protein 562 | protein_coding | 19 | 16 | 20 | 17 | 0.829 |
| 54812 | NM_001002243,NM | **AFTPH** | aftiphilin | protein_coding | 27 | 25 | 28 | 26 | 0.917 |
| 54813 | NM_001308112,NM | **KLHL28** | kelch like family member | protein_coding | 6 | 5 | 7 | 6 | 0.800 |
| 54814 | NM_001163377,NM | **QPCTL** | glutaminyl-peptide cyclo | protein_coding | 12 | 12 | 13 | 13 | 0.952 |
| 54815 | NM_001300946,NM | **GATAD2A** | GATA zinc finger domain | protein_coding | 174 | 168 | 175 | 169 | 0.966 |
| 54816 | NM_001002843,NM | **ZNF280D** | zinc finger protein 280D | protein_coding | 2 | 1 | 3 | 2 | 0.862 |
| 54819 | NM_001300816,NM | **ZCCHC10** | zinc finger CCHC-type co | protein_coding | 60 | 53 | 61 | 54 | 0.892 |
| 54820 | NM_001143979,NM | **NDE1** | nudE neurodevelopment | protein_coding | 39 | 34 | 40 | 35 | 0.880 |
| 54821 | NM_001009954,NM | **ERCC6L** | ERCC excision repair 6 li | protein_coding | 40 | 38 | 41 | 39 | 0.950 |
| 54822 | NM_001301212,NM | **TRPM7** | transient receptor potent | protein_coding | 78 | 62 | 79 | 63 | 0.793 |
| 54823 | NM_001105518,NM | **SWT1** | SWT1 RNA endoribonuc | protein_coding | 1 | 1 | 2 | 2 | 0.941 |
| 54825 | NM_001171976,NM | **CDHR2** | cadherin related family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54826 | NM_001317954,NM | **GIN1** | gypsy retrotransposon in | protein_coding | 6 | 6 | 7 | 7 | 1.067 |
| 54827 | NM_001077639,NM | **NXPE4** | neurexophilin and PC-es | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54828 | NM_001099432,NM | **BCAS3** | BCAS3 microtubule assc | protein_coding | 2 | 2 | 3 | 3 | 0.866 |
| 54829 | NM_001193335,NM | **ASPN** | asporin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54830 | NM_017681,NR_03 | **NUP62CL** | nucleoporin 62 C-termina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54831 | NM_017682 | **BEST2** | bestrophin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54832 | NM_001018088,NM | **VPS13C** | vacuolar protein sorting | protein_coding | 28 | 22 | 29 | 23 | 0.802 |
| 54834 | NM_001135589,NM | **GDAP2** | ganglioside induced diffe | protein_coding | 7 | 6 | 8 | 7 | 0.864 |
| 54836 | NM_001317943,NM | **BSPRY** | B-box and SPRY domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54838 | NM_001083913,NM | **WBP1L** | WW domain binding pro | protein_coding | 35 | 38 | 36 | 39 | 1.075 |
| 54839 | NM_001199017,NM | **LRRC49** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54840 | NM_001195248,NM | **APTX** | aprataxin | protein_coding | 59 | 61 | 60 | 62 | 1.038 |
| 54841 | NM_001159596,NM | **BIVM** | basic, immunoglobulin-lil | protein_coding | 1 | 0 | 2 | 1 | 0.807 |
| 54842 | NM_001375986,NM | **MFSD6** | major facilitator superfan | protein_coding | 39 | 40 | 40 | 41 | 1.014 |
| 54843 | NM_001162951,NM | **SYTL2** | synaptotagmin like 2 | protein_coding | 13 | 8 | 14 | 9 | 0.602 |
| 54845 | NM_001034915,NM | **ESRP1** | epithelial splicing regulat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54847 | NM_001308350,NM | **SIDT1** | SID1 transmembrane far | protein_coding | 19 | 20 | 20 | 21 | 1.028 |
| 54848 | NM_001242729,NM | **ARHGEF38** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54849 | NM_001242816,NM | **DEF8** | differentially expressed i | protein_coding | 17 | 19 | 18 | 20 | 1.107 |
| 54850 | NM_001316936,NM | **FBXL12** | F-box and leucine rich re | protein_coding | 45 | 48 | 46 | 49 | 1.062 |
| 54851 | NM_017704,XM_01 | **ANKRD49** | ankyrin repeat domain 4 | protein_coding | 30 | 31 | 31 | 32 | 1.025 |
| 54852 | NM_001104554,NM | **PAQR5** | progestin and adipoQ re | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 54853 | NM_017706,XM_00 | **WDR55** | WD repeat domain 55 | protein_coding | 49 | 48 | 50 | 49 | 0.980 |
| 54854 | NM_017708,XM_00 | **FAM83E** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.903 |
| 54855 | NM_017709 | **TENT5C** | terminal nucleotidyltrans | protein_coding | 34 | 35 | 35 | 36 | 1.031 |
| 54856 | NM_001282856,NM | **GON4L** | gon-4 like | protein_coding | 24 | 20 | 25 | 21 | 0.822 |
| 54857 | NM_001171191,NM | **GDPD2** | glycerophosphodiester p | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 54858 | NM_001300927,NM | **PGPEP1** | pyroglutamyl-peptidase I | protein_coding | 22 | 20 | 23 | 21 | 0.910 |
| 54859 | NM_001031703,NM | **ELP6** | elongator acetyltransfera | protein_coding | 52 | 54 | 53 | 55 | 1.051 |
| 54860 | NM_001164470,NM | **MS4A12** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54861 | NM_001100594,NM | **SNRK** | SNF related kinase | protein_coding | 21 | 17 | 22 | 18 | 0.852 |
| 54862 | NM_017721,XM_00 | **CC2D1A** | coiled-coil and C2 domai | protein_coding | 48 | 47 | 49 | 48 | 0.983 |
| 54863 | NM_017723 | **TOR4A** | torsin family 4 member A | protein_coding | 0 | 1 | 1 | 2 | 1.370 |
| 54865 | NM_015590,NM_18 | **GPATCH4** | G-patch domain containi | protein_coding | 251 | 264 | 252 | 265 | 1.050 |
| 54866 | NM_001130143,NM | **PPP1R14D** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54867 | NM_001083590,NM | **TMEM214** | transmembrane protein 2 | protein_coding | 44 | 46 | 45 | 47 | 1.033 |
| 54868 | NM_001321264,NM | **TMEM104** | transmembrane protein 1 | protein_coding | 15 | 14 | 16 | 15 | 0.961 |
| 54869 | NM_017729,NM_13 | **EPS8L1** | EPS8 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54870 | NM_001320580,NM | **QRICH1** | glutamine rich 1 | protein_coding | 62 | 63 | 63 | 64 | 1.021 |
| 54872 | NM_001127178,NM | **PIGG** | phosphatidylinositol glyc | protein_coding | 23 | 24 | 24 | 25 | 1.035 |
| 54873 | NM_017734 | **PALMD** | palmdelphin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54874 | NM_001024948,NM | **FNBP1L** | formin binding protein 1 l | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 54875 | NM_001114395,NM | **CNTLN** | centlein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54876 | NM_001345880,NM | **DCAF16** | DDB1 and CUL4 associa | protein_coding | 34 | 30 | 35 | 31 | 0.894 |
| 54877 | NM_017742,NR_12 | **ZCCHC2** | zinc finger CCHC-type co | protein_coding | 13 | 11 | 14 | 12 | 0.897 |
| 54878 | NM_001320875,NM | **DPP8** | dipeptidyl peptidase 8 | protein_coding | 28 | 23 | 29 | 24 | 0.832 |
| 54879 | NM_001308264,NM | **ST7L** | suppression of tumorige | protein_coding | 9 | 9 | 10 | 10 | 1.070 |
| 54880 | NM_001123383,NM | **BCOR** | BCL6 corepressor | protein_coding | 19 | 18 | 20 | 19 | 0.976 |
| 54881 | NM_001161584,NM | **TEX10** | testis expressed 10 | protein_coding | 51 | 45 | 52 | 46 | 0.898 |
| 54882 | NM_001197030,NM | **ANKHD1** | ankyrin repeat and KH d | protein_coding | 48 | 42 | 49 | 43 | 0.871 |
| 54883 | NM_017748,NR_07 | **CWC25** | CWC25 spliceosome ass | protein_coding | 34 | 35 | 35 | 36 | 1.051 |
| 54884 | NM_017750 | **RETSAT** | retinol saturase | protein_coding | 16 | 15 | 17 | 16 | 0.955 |
| 54885 | NM_017752,NM_19 | **TBC1D8B** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54886 | NM_017753,NM_20 | **PLPPR1** | phospholipid phosphata | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54887 | NM_017754 | **UHRF1BP1** | UHRF1 binding protein 1 | protein_coding | 11 | 10 | 12 | 11 | 0.934 |
| 54888 | NM_001193455,NM | **NSUN2** | NOP2/Sun RNA methyltr | protein_coding | 245 | 228 | 246 | 229 | 0.931 |
| 54890 | NM_017758 | **ALKBH5** | alkB homolog 5, RNA de | protein_coding | 45 | 46 | 46 | 47 | 1.021 |
| 54891 | NM_017759,XM_01 | **INO80D** | INO80 complex subunit D | protein_coding | 12 | 9 | 13 | 10 | 0.761 |
| 54892 | NM_001281932,NM | **NCAPG2** | non-SMC condensin II co | protein_coding | 80 | 63 | 81 | 64 | 0.793 |
| 54893 | NM_017762,XM_00 | **MTMR10** | myotubularin related pro | protein_coding | 31 | 24 | 32 | 25 | 0.786 |
| 54894 | NM_001305544,NM | **RNF43** | ring finger protein 43 | protein_coding | 2 | 3 | 3 | 4 | 1.106 |
| 54896 | NM_001040125,NM | **SLC66A1** | solute carrier family 66 m | protein_coding | 2 | 4 | 3 | 5 | 1.411 |
| 54897 | NM_001079843,NM | **CASZ1** | castor zinc finger 1 | protein_coding | 3 | 3 | 4 | 4 | 0.946 |
| 54898 | NM_017770,XM_01 | **ELOVL2** | ELOVL fatty acid elonga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54899 | NM_001289095,NM | **PXK** | PX domain containing se | protein_coding | 57 | 46 | 58 | 47 | 0.811 |
| 54900 | NM_001136190,NM | **LAX1** | lymphocyte transmembra | protein_coding | 16 | 13 | 17 | 14 | 0.841 |
| 54901 | NM_017774,XM_01 | **CDKAL1** | CDK5 regulatory subunit | protein_coding | 34 | 30 | 35 | 31 | 0.880 |
| 54902 | NM_001271420,NM | **TTC19** | tetratricopeptide repeat c | protein_coding | 23 | 22 | 24 | 23 | 0.976 |
| 54903 | NM_001165927,NM | **MKS1** | MKS transition zone com | protein_coding | 9 | 12 | 10 | 13 | 1.231 |
| 54904 | NM_017778,NM_02 | **NSD3** | nuclear receptor binding | protein_coding | 49 | 40 | 50 | 41 | 0.820 |
| 54905 | NM_017781,XM_01 | **CYP2W1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54906 | NM_001321783,NM | **TASOR2** | transcription activation su | protein_coding | 32 | 27 | 33 | 28 | 0.847 |
| 54908 | NM_001329639,NM | **SPDL1** | spindle apparatus coiled | protein_coding | 76 | 72 | 77 | 73 | 0.948 |
| 54910 | NM_017789,XM_00 | **SEMA4C** | semaphorin 4C | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 54913 | NM_017793 | **RPP25** | ribonuclease P and MRP | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54914 | NM_001375567,NM | **FOCAD** | focadhesin | protein_coding | 11 | 10 | 12 | 11 | 0.962 |
| 54915 | NM_017798,XM_02 | **YTHDF1** | YTH N6-methyladenosin | protein_coding | 99 | 102 | 100 | 103 | 1.026 |
| 54916 | NM_017799,XM_00 | **TMEM260** | transmembrane protein 2 | protein_coding | 7 | 7 | 8 | 8 | 1.041 |
| 54918 | NM_017801 | **CMTM6** | CKLF like MARVEL trans | protein_coding | 125 | 114 | 126 | 115 | 0.914 |
| 54919 | NM_017802,NR_07 | **DNAAF5** | dynein axonemal assem | protein_coding | 28 | 27 | 29 | 28 | 0.963 |
| 54920 | NM_001271762,NM | **DUS2** | dihydrouridine synthase | protein_coding | 16 | 15 | 17 | 16 | 0.957 |
| 54921 | NM_001039690,NM | **CHTF8** | chromosome transmissio | protein_coding | 65 | 63 | 66 | 64 | 0.975 |
| 54922 | NM_017805 | **RASIP1** | Ras interacting protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54923 | NM_001305654,NM | **LIME1** | Lck interacting transmem | protein_coding | 5 | 5 | 6 | 6 | 0.990 |
| 54925 | NM_001284527,NM | **ZSCAN32** | zinc finger and SCAN do | protein_coding | 29 | 26 | 30 | 27 | 0.912 |
| 54926 | NM_017811,XM_00 | **UBE2R2** | ubiquitin conjugating en | protein_coding | 29 | 28 | 30 | 29 | 0.973 |
| 54927 | NM_001317177,NM | **CHCHD3** | coiled-coil-helix-coiled-co | protein_coding | 249 | 245 | 250 | 246 | 0.983 |
| 54928 | NM_017813,XR_92 | **BPNT2** | 3'(2'), 5'-bisphosphate nu | protein_coding | 30 | 29 | 31 | 30 | 0.939 |
| 54929 | NM_001256766,NM | **TMEM161A** | transmembrane protein 1 | protein_coding | 24 | 24 | 25 | 25 | 1.026 |
| 54930 | NM_001166269,NM | **HAUS4** | HAUS augmin like compl | protein_coding | 32 | 27 | 33 | 28 | 0.831 |
| 54931 | NM_017819 | **TRMT10C** | tRNA methyltransferase | protein_coding | 54 | 46 | 55 | 47 | 0.845 |
| 54932 | NM_001286823,NM | **EXD3** | exonuclease 3'-5' domair | protein_coding | 1 | 1 | 2 | 2 | 0.924 |
| 54933 | NM_001304746,NM | **RHBDL2** | rhomboid like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54934 | NM_017822 | **KANSL2** | KAT8 regulatory NSL cor | protein_coding | 38 | 40 | 39 | 41 | 1.036 |
| 54935 | NM_001319658,NM | **DUSP23** | dual specificity phosphat | protein_coding | 8 | 11 | 9 | 12 | 1.291 |
| 54936 | NM_017825,XM_01 | **ADPRS** | ADP-ribosylserine hydrol | protein_coding | 54 | 60 | 55 | 61 | 1.112 |
| 54937 | NM_001282147,NM | **SOHLH2** | spermatogenesis and oo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54938 | NM_001145901,NM | **SARS2** | seryl-tRNA synthetase 2, | protein_coding | 26 | 30 | 27 | 31 | 1.124 |
| 54939 | NM_001284377,NM | **COMMD4** | COMM domain containin | protein_coding | 131 | 144 | 132 | 145 | 1.100 |
| 54940 | NM_001079839,NM | **OCIAD1** | OCIA domain containing | protein_coding | 142 | 132 | 143 | 133 | 0.932 |
| 54941 | NM_017831,XM_01 | **RNF125** | ring finger protein 125 | protein_coding | 10 | 9 | 11 | 10 | 0.962 |
| 54942 | NM_017832,XM_01 | **ABITRAM** | actin binding transcriptio | protein_coding | 14 | 16 | 15 | 17 | 1.122 |
| 54943 | NM_001040192,NM | **DNAJC28** | DnaJ heat shock protein | protein_coding | 1 | 1 | 2 | 2 | 0.887 |
| 54944 | NR_120386 | **LINC01521** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.926 |
| 54946 | NM_001008485,NM | **SLC41A3** | solute carrier family 41 m | protein_coding | 16 | 14 | 17 | 15 | 0.866 |
| 54947 | NM_017839,XM_00 | **LPCAT2** | lysophosphatidylcholine | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54948 | NM_017840 | **MRPL16** | mitochondrial ribosomal | protein_coding | 147 | 148 | 148 | 149 | 1.008 |
| 54949 | NM_017841 | **SDHAF2** | succinate dehydrogenas | protein_coding | 96 | 97 | 97 | 98 | 1.006 |
| 54951 | NM_001329668,NM | **COMMD8** | COMM domain containin | protein_coding | 65 | 53 | 66 | 54 | 0.815 |
| 54952 | NM_017846,NR_00 | **TRNAU1AP** | tRNA selenocysteine 1 a | protein_coding | 19 | 21 | 20 | 22 | 1.077 |
| 54953 | NM_001164245,NM | **ODR4** | odr-4 GPCR localization | protein_coding | 16 | 15 | 17 | 16 | 0.925 |
| 54954 | NM_001300788,NM | **FAM120C** | family with sequence sim | protein_coding | 3 | 3 | 4 | 4 | 0.965 |
| 54955 | NM_001303030,NM | **C1orf109** | chromosome 1 open rea | protein_coding | 61 | 55 | 62 | 56 | 0.910 |
| 54956 | NM_001316943,NM | **PARP16** | poly(ADP-ribose) polyme | protein_coding | 13 | 15 | 14 | 16 | 1.098 |
| 54957 | NM_001142317,NM | **TXNL4B** | thioredoxin like 4B | protein_coding | 35 | 33 | 36 | 34 | 0.934 |
| 54958 | NM_017854 | **TMEM160** | transmembrane protein 1 | protein_coding | 23 | 33 | 24 | 34 | 1.443 |
| 54959 | NM_017855,XM_00 | **ODAM** | odontogenic, ameloblast | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54960 | NM_001042479,NM | **GEMIN8** | gem nuclear organelle a | protein_coding | 11 | 11 | 12 | 12 | 0.996 |
| 54961 | NM_017857,XM_01 | **SSH3** | slingshot protein phosph | protein_coding | 3 | 3 | 4 | 4 | 1.014 |
| 54962 | NM_001289986,NM | **TIPIN** | TIMELESS interacting pr | protein_coding | 69 | 69 | 70 | 70 | 1.000 |
| 54963 | NM_001193379,NM | **UCKL1** | uridine-cytidine kinase 1 | protein_coding | 40 | 37 | 41 | 38 | 0.936 |
| 54964 | NM_017860 | **C1orf56** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.169 |
| 54965 | NM_001166304,NM | **PIGX** | phosphatidylinositol glyc | protein_coding | 32 | 27 | 33 | 28 | 0.861 |
| 54967 | NM_001031705,NM | **CT55** | cancer/testis antigen 55 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54968 | NM_001040613,NM | **TMEM70** | transmembrane protein 7 | protein_coding | 62 | 55 | 63 | 56 | 0.885 |
| 54969 | NM_017867 | **HPF1** | histone PARylation facto | protein_coding | 22 | 19 | 23 | 20 | 0.851 |
| 54970 | NM_001318533,NM | **TTC12** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 54971 | NM_001173539,NM | **BANP** | BTG3 associated nuclea | protein_coding | 16 | 16 | 17 | 17 | 0.972 |
| 54972 | NM_017870,NM_17 | **TMEM132A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54973 | NM_001256456,NM | **INTS11** | integrator complex subur | protein_coding | 91 | 95 | 92 | 96 | 1.046 |
| 54974 | NM_001317824,NM | **THG1L** | tRNA-histidine guanylyltr | protein_coding | 24 | 22 | 25 | 23 | 0.911 |
| 54976 | NM_001039140,NM | **C20orf27** | chromosome 20 open rea | protein_coding | 161 | 177 | 162 | 178 | 1.099 |
| 54977 | NM_001354798,NM | **SLC25A38** | solute carrier family 25 m | protein_coding | 40 | 43 | 41 | 44 | 1.067 |
| 54978 | NM_017877 | **SLC35F6** | solute carrier family 35 m | protein_coding | 5 | 4 | 6 | 5 | 0.930 |
| 54979 | NM_017878,XM_01 | **PLAAT2** | phospholipase A and acy | protein_coding | 6 | 6 | 7 | 7 | 0.986 |
| 54980 | NM_001348758,NM | **C2orf42** | chromosome 2 open rea | protein_coding | 10 | 9 | 11 | 10 | 0.938 |
| 54981 | NM_001127603,NM | **NMRK1** | nicotinamide riboside kin | protein_coding | 8 | 6 | 9 | 7 | 0.786 |
| 54982 | NM_017882 | **CLN6** | CLN6 transmembrane El | protein_coding | 107 | 113 | 108 | 114 | 1.057 |
| 54984 | NM_001284356,NM | **PINX1** | PIN2 (TERF1) interacting | protein_coding | 34 | 33 | 35 | 34 | 0.980 |
| 54985 | NM_001002017,NM | **HCFC1R1** | host cell factor C1 regula | protein_coding | 32 | 41 | 33 | 42 | 1.271 |
| 54986 | NM_001322500,NM | **ULK4** | unc-51 like kinase 4 | protein_coding | 1 | 1 | 2 | 2 | 1.190 |
| 54987 | NM_001304759,NM | **CZIB** | CXXC motif containing zi | protein_coding | 45 | 54 | 46 | 55 | 1.189 |
| 54988 | NM_001324371,NM | **ACSM5** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54989 | NM_014106,XM_01 | **ZNF770** | zinc finger protein 770 | protein_coding | 62 | 53 | 63 | 54 | 0.845 |
| 54991 | NM_001330306,NM | **C1orf159** | chromosome 1 open rea | protein_coding | 13 | 12 | 14 | 13 | 0.927 |
| 54993 | NM_001007072,NM | **ZSCAN2** | zinc finger and SCAN do | protein_coding | 4 | 5 | 5 | 6 | 1.220 |
| 54994 | NM_017896 | **GID8** | GID complex subunit 8 h | protein_coding | 75 | 72 | 76 | 73 | 0.963 |
| 54995 | NM_001145391,NM | **OXSM** | 3-oxoacyl-ACP synthase, | protein_coding | 13 | 13 | 14 | 14 | 1.037 |
| 54996 | NM_001317338,NM | **MTARC2** | mitochondrial amidoxime | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 54997 | NM_001168325,NM | **TESC** | tescalcin | protein_coding | 171 | 186 | 172 | 187 | 1.085 |
| 54998 | NM_001127229,NM | **AURKAIP1** | aurora kinase A interactir | protein_coding | 238 | 282 | 239 | 283 | 1.183 |
| 55000 | NR_002323,NR_11( | **TUG1** | taurine up-regulated 1 | lncRNA | 51 | 43 | 52 | 44 | 0.852 |
| 55001 | NM_001114108,NM | **TTC22** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55002 | NM_001349741,NM | **TMCO3** | transmembrane and coil | protein_coding | 25 | 21 | 26 | 22 | 0.861 |
| 55003 | NM_017906,XM_00 | **PAK1IP1** | PAK1 interacting protein | protein_coding | 77 | 63 | 78 | 64 | 0.824 |
| 55004 | NM_017907 | **LAMTOR1** | late endosomal/lysosoma | protein_coding | 143 | 165 | 144 | 166 | 1.155 |
| 55005 | NM_001271937,NM | **RMND1** | required for meiotic nucl | protein_coding | 29 | 28 | 30 | 29 | 0.961 |
| 55006 | NM_017910,XM_00 | **TRMT61B** | tRNA methyltransferase | protein_coding | 16 | 14 | 17 | 15 | 0.915 |
| 55007 | NM_001104595,NM | **FAM118A** | family with sequence sim | protein_coding | 20 | 17 | 21 | 18 | 0.841 |
| 55008 | NM_001165136,NM | **HERC6** | HECT and RLD domain c | protein_coding | 4 | 4 | 5 | 5 | 0.991 |
| 55009 | NM_017914 | **FAM174C** | family with sequence sim | protein_coding | 56 | 53 | 57 | 54 | 0.934 |
| 55010 | NM_001319988,NM | **PARPBP** | PARP1 binding protein | protein_coding | 23 | 19 | 24 | 20 | 0.843 |
| 55011 | NM_017916,XM_02 | **PIH1D1** | PIH1 domain containing | protein_coding | 78 | 80 | 79 | 81 | 1.026 |
| 55012 | NM_001305155,NM | **PPP2R3C** | protein phosphatase 2 re | protein_coding | 27 | 23 | 28 | 24 | 0.869 |
| 55013 | NM_017918,XM_00 | **MCUB** | mitochondrial calcium ur | protein_coding | 15 | 19 | 16 | 20 | 1.224 |
| 55014 | NM_017919,XM_01 | **STX17** | syntaxin 17 | protein_coding | 18 | 16 | 19 | 17 | 0.879 |
| 55015 | NM_017922 | **PRPF39** | pre-mRNA processing fa | protein_coding | 28 | 28 | 29 | 29 | 0.984 |
| 55016 | NM_001166373,NM | **MARCHF1** | membrane associated rir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55017 | NM_017924,XM_01 | **C14orf119** | chromosome 14 open rea | protein_coding | 28 | 27 | 29 | 28 | 0.993 |
| 55018 | NM_001358683,XM | **ANKRD40CL** | ANKRD40 C-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55020 | NM_017931,XM_01 | **TTC38** | tetratricopeptide repeat c | protein_coding | 7 | 8 | 8 | 9 | 1.089 |
| 55022 | NM_001100818,NM | **PID1** | phosphotyrosine interact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55023 | NM_017934,XM_00 | **PHIP** | pleckstrin homology dom | protein_coding | 28 | 22 | 29 | 23 | 0.778 |
| 55024 | NM_001083907,NM | **BANK1** | B cell scaffold protein wi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55025 | NR_165282 | **FLJ20712** | uncharacterized FLJ207 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 55026 | NM_001104544,NM | **TMEM255A** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 55027 | NM_001329729,NM | **HEATR3** | HEAT repeat containing | protein_coding | 13 | 17 | 14 | 18 | 1.333 |
| 55028 | NM_001100621,NM | **C17orf80** | chromosome 17 open rea | protein_coding | 42 | 37 | 43 | 38 | 0.888 |
| 55030 | NM_017943,NM_15 | **FBXO34** | F-box protein 34 | protein_coding | 39 | 35 | 40 | 36 | 0.906 |
| 55031 | NM_001282659,NM | **USP47** | ubiquitin specific peptida | protein_coding | 23 | 18 | 24 | 19 | 0.824 |
| 55032 | NM_001348905,NM | **SLC35A5** | solute carrier family 35 m | protein_coding | 24 | 24 | 25 | 25 | 1.007 |
| 55033 | NM_017946,NR_04 | **FKBP14** | FKBP prolyl isomerase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 55034 | NM_017947 | **MOCOS** | molybdenum cofactor su | protein_coding | 0 | 0 | 1 | 1 | 1.033 |
| 55035 | NM_001256394,NM | **NOL8** | nucleolar protein 8 | protein_coding | 48 | 43 | 49 | 44 | 0.913 |
| 55036 | NM_001243342,NM | **CCDC40** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55037 | NM_017952 | **PTCD3** | pentatricopeptide repeat | protein_coding | 42 | 37 | 43 | 38 | 0.894 |
| 55038 | NM_017955,NM_14 | **CDCA4** | cell division cycle associ | protein_coding | 78 | 73 | 79 | 74 | 0.938 |
| 55039 | NM_017956 | **TRMT12** | tRNA methyltransferase | protein_coding | 6 | 6 | 7 | 7 | 0.994 |
| 55040 | NM_017957 | **EPN3** | epsin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55041 | NM_001100623,NM | **PLEKHB2** | pleckstrin homology dom | protein_coding | 143 | 134 | 144 | 135 | 0.937 |
| 55048 | NM_017966,XM_00 | **VPS37C** | VPS37C subunit of ESC | protein_coding | 2 | 2 | 3 | 3 | 0.919 |
| 55049 | NM_001100418,NM | **REX1BD** | required for excision 1-B | protein_coding | 52 | 62 | 53 | 63 | 1.186 |
| 55051 | NM_017970,XM_01 | **NRDE2** | NRDE-2, necessary for R | protein_coding | 4 | 4 | 5 | 5 | 1.088 |
| 55052 | NM_001318485,NM | **MRPL20** | mitochondrial ribosomal | protein_coding | 292 | 304 | 293 | 305 | 1.039 |
| 55054 | NM_001190266,NM | **ATG16L1** | autophagy related 16 like | protein_coding | 36 | 34 | 37 | 35 | 0.929 |
| 55055 | NM_001287821,NM | **ZWILCH** | zwilch kinetochore protei | protein_coding | 81 | 72 | 82 | 73 | 0.887 |
| 55056 | NR_026891 | **GABPB1-IT1** | GABPB1 intronic transcri | lncRNA | 3 | 4 | 4 | 5 | 1.128 |
| 55057 | NM_001039775,XM | **CRYBG2** | crystallin beta-gamma do | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 55061 | NM_001037175,NM | **SUSD4** | sushi domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55062 | NM_001320772,NM | **WIPI1** | WD repeat domain, phos | protein_coding | 44 | 41 | 45 | 42 | 0.918 |
| 55063 | NM_001258008,NM | **ZCWPW1** | zinc finger CW-type and | protein_coding | 11 | 13 | 12 | 14 | 1.134 |
| 55064 | NM_001039395,NM | **SPATA6L** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 55065 | NM_001104577,NM | **SLC52A1** | solute carrier family 52 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55066 | NM_001322117,NM | **PDPR** | pyruvate dehydrogenase | protein_coding | 23 | 22 | 24 | 23 | 0.971 |
| 55068 | NM_001127615,NM | **ENOX1** | ecto-NOX disulfide-thiol | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55069 | NM_017994,XM_00 | **TMEM248** | transmembrane protein 2 | protein_coding | 77 | 70 | 78 | 71 | 0.913 |
| 55070 | NM_001144074,NM | **DET1** | DET1 partner of COP1 E | protein_coding | 2 | 2 | 3 | 3 | 1.015 |
| 55071 | NM_017998 | **C9orf40** | chromosome 9 open rea | protein_coding | 21 | 25 | 22 | 26 | 1.162 |
| 55072 | NM_001310332,NM | **RNF31** | ring finger protein 31 | protein_coding | 28 | 28 | 29 | 29 | 0.987 |
| 55073 | NR_002940 | **LRRC37A4P** | leucine rich repeat conta | transcribed_pseu | 21 | 18 | 22 | 19 | 0.878 |
| 55074 | NM_001198532,NM | **OXR1** | oxidation resistance 1 | protein_coding | 15 | 15 | 16 | 16 | 1.023 |
| 55075 | NM_001008224,NM | **UACA** | uveal autoantigen with c | protein_coding | 4 | 3 | 5 | 4 | 0.693 |
| 55076 | NM_001363876,NM | **TMEM45A** | transmembrane protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55079 | NM_018008 | **FEZF2** | FEZ family zinc finger 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55080 | NM_001351355,NM | **TAPBPL** | TAP binding protein like | protein_coding | 21 | 21 | 22 | 22 | 1.036 |
| 55081 | NM_018010 | **IFT57** | intraflagellar transport 57 | protein_coding | 4 | 4 | 5 | 5 | 0.961 |
| 55082 | NM_018011,XR_24 | **ARGLU1** | arginine and glutamate r | protein_coding | 106 | 97 | 107 | 98 | 0.919 |
| 55083 | NM_018012 | **KIF26B** | kinesin family member 2( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55084 | NM_018013,XM_00 | **SOBP** | sine oculis binding prote | protein_coding | 5 | 5 | 6 | 6 | 1.004 |

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|---|---|---|---|---|---|---|---|---|---|
| 55086 | NM_001184782,NM | **RADX** | RPA1 related single stra | protein_coding | 13 | 11 | 14 | 12 | 0.894 |
| 55088 | NM_001321829,NM | **CCDC186** | coiled-coil domain contai | protein_coding | 15 | 13 | 16 | 14 | 0.864 |
| 55089 | NM_001143824,NM | **SLC38A4** | solute carrier family 38 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55090 | NM_018019 | **MED9** | mediator complex subun | protein_coding | 14 | 16 | 15 | 17 | 1.117 |
| 55092 | NM_001136216,NM | **TMEM51** | transmembrane protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55093 | NM_001283024,NM | **NTAQ1** | N-terminal glutamine am | protein_coding | 25 | 23 | 26 | 24 | 0.941 |
| 55094 | NM_018025,NR_13 | **GPATCH1** | G-patch domain containi | protein_coding | 15 | 15 | 16 | 16 | 1.017 |
| 55095 | NM_001303614,NM | **SAMD4B** | sterile alpha motif domai | protein_coding | 32 | 30 | 33 | 31 | 0.942 |
| 55096 | NM_018029 | **EBLN2** | endogenous Bornavirus l | protein_coding | 1 | 1 | 2 | 2 | 0.953 |
| 55100 | NM_001345998,NM | **WDR70** | WD repeat domain 70 | protein_coding | 23 | 24 | 24 | 25 | 1.033 |
| 55101 | NM_001167867,NM | **DMAC2** | distal membrane arm ass | protein_coding | 91 | 93 | 92 | 94 | 1.025 |
| 55102 | NM_018036 | **ATG2B** | autophagy related 2B | protein_coding | 6 | 5 | 7 | 6 | 0.865 |
| 55103 | NM_001286247,NM | **RALGPS2** | Ral GEF with PH domair | protein_coding | 1 | 0 | 2 | 1 | 0.880 |
| 55105 | NM_001297754,NM | **GPATCH2** | G-patch domain containi | protein_coding | 13 | 10 | 14 | 11 | 0.792 |
| 55106 | NM_001289009,NM | **SLFN12** | schlafen family member | protein_coding | 11 | 9 | 12 | 10 | 0.900 |
| 55107 | NM_001378092,NM | **ANO1** | anoctamin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55108 | NM_001143888,NM | **BSDC1** | BSD domain containing 1 | protein_coding | 28 | 31 | 29 | 32 | 1.081 |
| 55109 | NM_018046 | **AGGF1** | angiogenic factor with G- | protein_coding | 14 | 14 | 15 | 15 | 0.949 |
| 55110 | NM_001300739,NM | **MAGOHB** | mago homolog B, exon ju | protein_coding | 29 | 29 | 30 | 30 | 0.995 |
| 55111 | NM_001300836,NM | **PLEKHJ1** | pleckstrin homology dor | protein_coding | 144 | 147 | 145 | 148 | 1.017 |
| 55112 | NM_001350914,NM | **DYNC2I1** | dynein 2 intermediate ch | protein_coding | 6 | 7 | 7 | 8 | 1.067 |
| 55113 | NM_018053,XM_01 | **XKR8** | XK related 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55114 | NM_001006634,NM | **ARHGAP17** | Rho GTPase activating p | protein_coding | 40 | 38 | 41 | 39 | 0.952 |
| 55116 | NM_001319677,NM | **TMEM39B** | transmembrane protein 3 | protein_coding | 21 | 23 | 22 | 24 | 1.051 |
| 55117 | NM_001146335,NM | **SLC6A15** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 55118 | NM_001206528,NM | **CRTAC1** | cartilage acidic protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55119 | NM_001349757,NM | **PRPF38B** | pre-mRNA processing fa | protein_coding | 66 | 59 | 67 | 60 | 0.894 |
| 55120 | NM_001114636,NM | **FANCL** | FA complementation gro | protein_coding | 26 | 23 | 27 | 24 | 0.895 |
| 55122 | NM_018064 | **AKIRIN2** | akirin 2 | protein_coding | 63 | 66 | 64 | 67 | 1.040 |
| 55124 | NM_001135721,NM | **PIWIL2** | piwi like RNA-mediated g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55125 | NM_032142,XM_00 | **CEP192** | centrosomal protein 192 | protein_coding | 7 | 6 | 8 | 7 | 0.877 |
| 55127 | NM_018072 | **HEATR1** | HEAT repeat containing | protein_coding | 45 | 35 | 46 | 36 | 0.787 |
| 55128 | NM_001304496,NM | **TRIM68** | tripartite motif containing | protein_coding | 13 | 13 | 14 | 14 | 1.009 |
| 55129 | NM_001204831,NM | **ANO10** | anoctamin 10 | protein_coding | 1 | 1 | 2 | 2 | 0.807 |
| 55130 | NM_001290020,NM | **ARMC4** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55131 | NM_001166135,NM | **RBM28** | RNA binding motif protei | protein_coding | 22 | 19 | 23 | 20 | 0.884 |
| 55132 | NM_001278604,NM | **LARP1B** | La ribonucleoprotein 1B | protein_coding | 9 | 9 | 10 | 10 | 0.946 |
| 55133 | NM_018079,XM_01 | **SRBD1** | S1 RNA binding domain | protein_coding | 25 | 25 | 26 | 26 | 1.004 |
| 55135 | NM_001143990,NM | **WRAP53** | WD repeat containing an | protein_coding | 26 | 23 | 27 | 24 | 0.887 |
| 55137 | NM_001321825,NM | **FIGN** | fidgetin, microtubule sev | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55138 | NM_001319982,NM | **FAM90A1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55139 | NM_001042410,NM | **ANKZF1** | ankyrin repeat and zinc f | protein_coding | 21 | 19 | 22 | 20 | 0.935 |
| 55140 | NM_001284220,NM | **ELP3** | elongator acetyltransfera | protein_coding | 24 | 22 | 25 | 23 | 0.916 |
| 55142 | NM_001130447,NM | **HAUS2** | HAUS augmin like compl | protein_coding | 50 | 45 | 51 | 46 | 0.896 |
| 55143 | NM_001256875,NM | **CDCA8** | cell division cycle associa | protein_coding | 220 | 224 | 221 | 225 | 1.019 |
| 55144 | NM_001134479,NM | **LRRC8D** | leucine rich repeat conta | protein_coding | 48 | 46 | 49 | 47 | 0.960 |
| 55145 | NM_018105,NM_19 | **THAP1** | THAP domain containing | protein_coding | 19 | 18 | 20 | 19 | 0.948 |
| 55146 | NM_001134387,NM | **ZDHHC4** | zinc finger DHHC-type pa | protein_coding | 34 | 35 | 35 | 36 | 1.047 |
| 55147 | NM_001077351,NM | **RBM23** | RNA binding motif protei | protein_coding | 48 | 47 | 49 | 48 | 0.981 |
| 55148 | NM_175748,NR_03 | **UBR7** | ubiquitin protein ligase E | protein_coding | 71 | 68 | 72 | 69 | 0.956 |
| 55149 | NM_018109 | **MTPAP** | mitochondrial poly(A) pol | protein_coding | 6 | 5 | 7 | 6 | 0.884 |
| 55150 | NM_018111 | **C19orf73** | chromosome 19 open rea | protein_coding | 1 | 2 | 2 | 3 | 1.525 |
| 55151 | NM_018112,XM_00 | **TMEM38B** | transmembrane protein 3 | protein_coding | 24 | 22 | 25 | 23 | 0.907 |
| 55152 | NM_001009996,NM | **DALRD3** | DALR anticodon binding | protein_coding | 7 | 7 | 8 | 8 | 1.081 |
| 55153 | NM_001288983,NM | **SDAD1** | SDA1 domain containing | protein_coding | 71 | 64 | 72 | 65 | 0.910 |
| 55154 | NM_001256532,NM | **MSTO1** | misato mitochondrial dist | protein_coding | 34 | 40 | 35 | 41 | 1.171 |
| 55156 | NM_001286702,NM | **ARMC1** | armadillo repeat containi | protein_coding | 83 | 72 | 84 | 73 | 0.872 |
| 55157 | NM_001365212,NM | **DARS2** | aspartyl-tRNA synthetas | protein_coding | 27 | 24 | 28 | 25 | 0.916 |
| 55159 | NM_001370534,NM | **RFWD3** | ring finger and WD repea | protein_coding | 99 | 97 | 100 | 98 | 0.977 |
| 55160 | NM_001011722,NM | **ARHGEF10L** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55161 | NM_018126,XM_00 | **TMEM33** | transmembrane protein 3 | protein_coding | 62 | 56 | 63 | 57 | 0.916 |
| 55163 | NM_018129,XM_00 | **PNPO** | pyridoxamine 5'-phospha | protein_coding | 57 | 58 | 58 | 59 | 1.026 |
| 55164 | NM_018130,XM_01 | **SHQ1** | SHQ1, H/ACA ribonuclec | protein_coding | 30 | 29 | 31 | 30 | 0.945 |
| 55165 | NM_001127182,NM | **CEP55** | centrosomal protein 55 | protein_coding | 84 | 77 | 85 | 78 | 0.919 |
| 55166 | NM_018132,XM_00 | **CENPQ** | centromere protein Q | protein_coding | 26 | 26 | 27 | 27 | 0.998 |
| 55167 | NM_001145417,NM | **MSL2** | MSL complex subunit 2 | protein_coding | 35 | 32 | 36 | 33 | 0.918 |
| 55168 | NM_001193343,NM | **MRPS18A** | mitochondrial ribosomal | protein_coding | 96 | 104 | 97 | 105 | 1.082 |
| 55170 | NM_018137 | **PRMT6** | protein arginine methyltra | protein_coding | 42 | 43 | 43 | 44 | 1.036 |
| 55171 | NM_001134415,NM | **TBCCD1** | TBCC domain containing | protein_coding | 26 | 24 | 27 | 25 | 0.928 |
| 55172 | NM_001083908,NM | **DNAAF2** | dynein axonemal assem | protein_coding | 18 | 16 | 19 | 17 | 0.897 |
| 55173 | NM_018141,XM_00 | **MRPS10** | mitochondrial ribosomal | protein_coding | 126 | 110 | 127 | 111 | 0.875 |
| 55174 | NM_001353505,NM | **INTS10** | integrator complex subu | protein_coding | 40 | 39 | 41 | 40 | 0.988 |
| 55175 | NM_018143,XR_00 | **KLHL11** | kelch like family member | protein_coding | 11 | 10 | 12 | 11 | 0.901 |
| 55176 | NM_001142627,NM | **SEC61A2** | SEC61 translocon subur | protein_coding | 1 | 1 | 2 | 2 | 1.048 |
| 55177 | NM_001304802,NM | **RMDN3** | regulator of microtubule | protein_coding | 78 | 86 | 79 | 87 | 1.102 |
| 55178 | NM_001317947,NM | **MRM3** | mitochondrial rRNA meth | protein_coding | 26 | 30 | 27 | 31 | 1.149 |
| 55179 | NM_001033030,NM | **FAIM** | Fas apoptotic inhibitory r | protein_coding | 1 | 1 | 2 | 2 | 1.148 |
| 55180 | NM_001040616,NM | **LINS1** | lines homolog 1 | protein_coding | 17 | 17 | 18 | 18 | 0.985 |
| 55181 | NM_018149 | **SMG8** | SMG8 nonsense mediate | protein_coding | 30 | 29 | 31 | 30 | 0.969 |
| 55182 | NM_001319956,NM | **RNF220** | ring finger protein 220 | protein_coding | 75 | 82 | 76 | 83 | 1.088 |
| 55183 | NM_001177663,NM | **RIF1** | replication timing regulat | protein_coding | 56 | 41 | 57 | 42 | 0.752 |
| 55184 | NM_001099407,NM | **DZANK1** | double zinc ribbon and a | protein_coding | 2 | 2 | 3 | 3 | 0.976 |
| 55186 | NM_001104647,NM | **SLC25A36** | solute carrier family 25 m | protein_coding | 46 | 39 | 47 | 40 | 0.846 |
| 55187 | NM_015378,NM_01 | **VPS13D** | vacuolar protein sorting 1 | protein_coding | 12 | 10 | 13 | 11 | 0.791 |
| 55188 | NM_001330145,NM | **RIC8B** | RIC8 guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55190 | NM_018159 | **NUDT11** | nudix hydrolase 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55191 | NM_018161 | **NADSYN1** | NAD synthetase 1 | protein_coding | 30 | 29 | 31 | 30 | 0.954 |
| 55192 | NM_018163,XM_01 | **DNAJC17** | DnaJ heat shock protein | protein_coding | 11 | 15 | 12 | 16 | 1.300 |
| 55193 | NM_001350074,NM | **PBRM1** | polybromo 1 | protein_coding | 40 | 31 | 41 | 32 | 0.785 |
| 55194 | NM_001304762,NM | **EVA1B** | eva-1 homolog B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55195 | NM_001283056,NM | **CCDC198** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55196 | NM_018169,XM_00 | **RESF1** | retroelement silencing fa | protein_coding | 20 | 17 | 21 | 18 | 0.840 |
| 55197 | NM_001303411,NM | **RPRD1A** | regulation of nuclear pre | protein_coding | 41 | 35 | 42 | 36 | 0.858 |
| 55198 | NM_001251904,NM | **APPL2** | adaptor protein, phosphc | protein_coding | 7 | 7 | 8 | 8 | 1.046 |
| 55199 | XR_004643250 | **FAM86C1P** | family with sequence sim | misc_RNA | 10 | 11 | 11 | 12 | 1.080 |
| 55200 | NM_001144856,NM | **PLEKHG6** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55201 | NM_001308363,NM | **MAP1S** | microtubule associated p | protein_coding | 37 | 39 | 38 | 40 | 1.060 |
| 55203 | NM_018176,XM_01 | **LGI2** | leucine rich repeat LGI fa | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 55204 | NM_018178,XM_00 | **GOLPH3L** | golgi phosphoprotein 3 li | protein_coding | 32 | 31 | 33 | 32 | 0.969 |
| 55205 | NM_001318726,NM | **ZNF532** | zinc finger protein 532 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55206 | NM_001167856,NM | **SBNO1** | strawberry notch homolo | protein_coding | 27 | 24 | 28 | 25 | 0.862 |
| 55207 | NM_018184 | **ARL8B** | ADP ribosylation factor li | protein_coding | 63 | 60 | 64 | 61 | 0.962 |
| 55208 | NM_001014283,XM | **DCUN1D2** | defective in cullin neddyl | protein_coding | 9 | 8 | 10 | 9 | 0.854 |
| 55209 | NM_001080517,NM | **SETD5** | SET domain containing 5 | protein_coding | 29 | 27 | 30 | 28 | 0.949 |
| 55210 | NM_001170535,NM | **ATAD3A** | ATPase family AAA dom | protein_coding | 175 | 181 | 176 | 182 | 1.036 |
| 55211 | NM_001348928,NM | **DPPA4** | developmental pluripoter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55212 | NM_018190,NM_17 | **BBS7** | Bardet-Biedl syndrome 7 | protein_coding | 13 | 12 | 14 | 13 | 0.920 |
| 55213 | NM_001352500,NM | **RCBTB1** | RCC1 and BTB domain c | protein_coding | 26 | 24 | 27 | 25 | 0.900 |
| 55214 | NM_001134418,NM | **P3H2** | prolyl 3-hydroxylase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55215 | NM_001113378,NM | **FANCI** | FA complementation gro | protein_coding | 153 | 130 | 154 | 131 | 0.848 |
| 55216 | NM_001082969,NM | **NKAPD1** | NKAP domain containing | protein_coding | 48 | 43 | 49 | 44 | 0.912 |
| 55217 | NM_001184797,NM | **TMLHE** | trimethyllysine hydroxyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55218 | NM_001193360,NM | **EXD2** | exonuclease 3'-5' domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55219 | NM_001282564,NM | **MACO1** | macoilin 1 | protein_coding | 17 | 16 | 18 | 17 | 0.920 |
| 55220 | NM_001271863,NM | **KLHDC8A** | kelch domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55222 | NM_001278211,NM | **LRRC20** | leucine rich repeat conta | protein_coding | 11 | 11 | 12 | 12 | 1.028 |
| 55223 | NM_001330483,NM | **TRIM62** | tripartite motif containing | protein_coding | 9 | 10 | 10 | 11 | 1.021 |
| 55224 | NM_001297760,NM | **ETNK2** | ethanolamine kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55225 | NM_001366165,NM | **RAVER2** | ribonucleoprotein, PTB b | protein_coding | 0 | 0 | 1 | 1 | 0.909 |
| 55226 | NM_001144030,NM | **NAT10** | N-acetyltransferase 10 | protein_coding | 132 | 129 | 133 | 130 | 0.979 |
| 55227 | NM_018214,XM_01 | **LRRC1** | leucine rich repeat conta | protein_coding | 6 | 5 | 7 | 6 | 0.939 |
| 55228 | NM_001103149,NM | **PNMA8A** | PNMA family member 8A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55229 | NM_018216,XM_01 | **PANK4** | pantothenate kinase 4 (in | protein_coding | 20 | 21 | 21 | 22 | 1.078 |
| 55230 | NM_001365479,NM | **USP40** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55231 | NM_018219 | **CCDC87** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.872 |
| 55233 | NM_001317110,NM | **MOB1A** | MOB kinase activator 1A | protein_coding | 149 | 132 | 150 | 133 | 0.883 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 55234 | NM_018225,XM_00 | **SMU1** | SMU1 DNA replication re | protein_coding | 33 | 32 | 34 | 33 | 0.964 |
| 55236 | NM_018227,XM_01 | **UBA6** | ubiquitin like modifier act | protein_coding | 14 | 11 | 15 | 12 | 0.810 |
| 55237 | NM_018228,XM_01 | **VRTN** | vertebrae development a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55238 | NM_001308384,NM | **SLC38A7** | solute carrier family 38 m | protein_coding | 6 | 6 | 7 | 7 | 1.030 |
| 55239 | NM_001324357,NM | **OGFOD1** | 2-oxoglutarate and iron c | protein_coding | 53 | 49 | 54 | 50 | 0.928 |
| 55240 | NM_001008410,NM | **STEAP3** | STEAP3 metalloreductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55243 | NM_001286349,NM | **KIRREL1** | kirre like nephrin family a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55244 | NM_018242 | **SLC47A1** | solute carrier family 47 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55245 | NM_001184977,NM | **UQCC1** | ubiquinol-cytochrome c r | protein_coding | 144 | 135 | 145 | 136 | 0.935 |
| 55246 | NM_001304529,NM | **CCDC25** | coiled-coil domain contai | protein_coding | 27 | 27 | 28 | 28 | 1.003 |
| 55247 | NM_018248,XM_01 | **NEIL3** | nei like DNA glycosylase | protein_coding | 17 | 17 | 18 | 18 | 0.999 |
| 55248 | NM_001198862,NM | **PACC1** | proton activated chloride | protein_coding | 14 | 13 | 15 | 14 | 0.918 |
| 55249 | NM_001198899,NM | **YY1AP1** | YY1 associated protein 1 | protein_coding | 72 | 72 | 73 | 73 | 1.000 |
| 55250 | NM_001242875,NM | **ELP2** | elongator acetyltransfera | protein_coding | 17 | 15 | 18 | 16 | 0.874 |
| 55251 | NM_001104925,NM | **PCMTD2** | protein-L-isoaspartate (D | protein_coding | 26 | 24 | 27 | 25 | 0.894 |
| 55252 | NM_001369346,NM | **ASXL2** | ASXL transcriptional regu | protein_coding | 11 | 9 | 12 | 10 | 0.831 |
| 55253 | NM_018264,NR_13 | **TYW1** | tRNA-yW synthesizing pr | protein_coding | 31 | 35 | 32 | 36 | 1.108 |
| 55254 | NM_018266,NR_07 | **TMEM39A** | transmembrane protein 3 | protein_coding | 24 | 23 | 25 | 24 | 0.970 |
| 55255 | NM_018268,XM_00 | **WDR41** | WD repeat domain 41 | protein_coding | 33 | 28 | 34 | 29 | 0.869 |
| 55256 | NM_001306077,NM | **ADI1** | acireductone dioxygenas | protein_coding | 26 | 29 | 27 | 30 | 1.100 |
| 55257 | NM_018270,NR_13 | **MRGBP** | MRG domain binding prc | protein_coding | 55 | 55 | 56 | 56 | 1.004 |
| 55258 | NM_001244676,NM | **THNSL2** | threonine synthase like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55259 | NM_001082972,NM | **CFAP94** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 55260 | NM_001303538,NM | **TMEM143** | transmembrane protein 1 | protein_coding | 6 | 6 | 7 | 7 | 1.017 |
| 55262 | NM_001303470,NM | **MAP11** | microtubule associated p | protein_coding | 24 | 25 | 25 | 26 | 1.055 |
| 55266 | NM_018279 | **TMEM19** | transmembrane protein 1 | protein_coding | 12 | 9 | 13 | 10 | 0.757 |
| 55267 | NR_165243 | **PRR34** | PRR34 long non-coding | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 55268 | NM_001198961,NM | **ECHDC2** | enoyl-CoA hydratase dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55269 | NM_001042414,NM | **PSPC1** | paraspeckle component | protein_coding | 56 | 59 | 57 | 60 | 1.048 |
| 55270 | NM_001304745,NM | **NUDT15** | nudix hydrolase 15 | protein_coding | 56 | 52 | 57 | 53 | 0.932 |
| 55272 | NM_018285 | **IMP3** | IMP U3 small nucleolar r | protein_coding | 118 | 128 | 119 | 129 | 1.082 |
| 55273 | NM_001099640,NM | **TMEM100** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55274 | NM_018288,NM_13 | **PHF10** | PHD finger protein 10 | protein_coding | 27 | 30 | 28 | 31 | 1.120 |
| 55275 | NM_001128159,NM | **VPS53** | VPS53 subunit of GARP | protein_coding | 5 | 5 | 6 | 6 | 1.013 |
| 55276 | NM_018290,XM_01 | **PGM2** | phosphoglucomutase 2 | protein_coding | 97 | 88 | 98 | 89 | 0.915 |
| 55277 | NM_001113411,NM | **FGGY** | FGGY carbohydrate kina | protein_coding | 2 | 2 | 3 | 3 | 0.976 |
| 55278 | NM_018292,XM_01 | **QRSL1** | glutaminyl-tRNA amidotr | protein_coding | 23 | 22 | 24 | 23 | 0.962 |
| 55279 | NM_001350134,NM | **ZNF654** | zinc finger protein 654 | protein_coding | 11 | 9 | 12 | 10 | 0.806 |
| 55280 | NM_001303404,NM | **CWF19L1** | CWF19 like cell cycle co | protein_coding | 34 | 33 | 35 | 34 | 0.986 |
| 55281 | NM_018295 | **TMEM140** | transmembrane protein 1 | protein_coding | 5 | 3 | 6 | 4 | 0.681 |
| 55282 | NM_001161575,NM | **LRRC36** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55283 | NM_001253693,NM | **MCOLN3** | mucolipin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55284 | NM_001001481,NM | **UBE2W** | ubiquitin conjugating en | protein_coding | 6 | 5 | 7 | 6 | 0.860 |
| 55285 | NM_001171080,NM | **RBM41** | RNA binding motif protei | protein_coding | 2 | 2 | 3 | 3 | 0.805 |
| 55286 | NM_001104629,NM | **C4orf19** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55287 | NM_001284406,NM | **TMEM40** | transmembrane protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55288 | NM_001033566,NM | **RHOT1** | ras homolog family mem | protein_coding | 39 | 34 | 40 | 35 | 0.865 |
| 55289 | NM_001142807,NM | **ACOXL** | acyl-CoA oxidase like | protein_coding | 8 | 6 | 9 | 7 | 0.737 |
| 55290 | NM_018310 | **BRF2** | BRF2 RNA polymerase II | protein_coding | 24 | 25 | 25 | 26 | 1.033 |
| 55291 | NM_001164160,NM | **PPP6R3** | protein phosphatase 6 re | protein_coding | 83 | 71 | 84 | 72 | 0.855 |
| 55293 | NM_001040697,NM | **UEVLD** | UEV and lactate/malate d | protein_coding | 20 | 16 | 21 | 17 | 0.787 |
| 55294 | NM_001013415,NM | **FBXW7** | F-box and WD repeat do | protein_coding | 14 | 13 | 15 | 14 | 0.883 |
| 55295 | NM_001345981,NM | **KLHL26** | kelch like family member | protein_coding | 8 | 9 | 9 | 10 | 1.148 |
| 55296 | NM_001292054,NM | **TBC1D19** | TBC1 domain family mer | protein_coding | 4 | 4 | 5 | 5 | 0.893 |
| 55297 | NM_001330367,NM | **CCDC91** | coiled-coil domain contai | protein_coding | 24 | 24 | 25 | 25 | 1.002 |
| 55298 | NM_001300926,NM | **RNF121** | ring finger protein 121 | protein_coding | 33 | 36 | 34 | 37 | 1.100 |
| 55299 | NM_018321 | **BRIX1** | biogenesis of ribosomes | protein_coding | 160 | 150 | 161 | 151 | 0.941 |
| 55300 | NM_018323,NR_14 | **PI4K2B** | phosphatidylinositol 4-kir | protein_coding | 67 | 64 | 68 | 65 | 0.950 |
| 55301 | NM_001039702,NM | **OLAH** | oleoyl-ACP hydrolase | protein_coding | 0 | 0 | 1 | 1 | 0.913 |
| 55303 | NM_001363532,NM | **GIMAP4** | GTPase, IMAP family me | protein_coding | 226 | 227 | 227 | 228 | 1.003 |
| 55304 | NM_001349945,NM | **SPTLC3** | serine palmitoyltransfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55308 | NM_001320522,NM | **DDX19A** | DEAD-box helicase 19A | protein_coding | 60 | 62 | 61 | 63 | 1.027 |
| 55311 | NM_001253792,NM | **ZNF444** | zinc finger protein 444 | protein_coding | 23 | 29 | 24 | 30 | 1.218 |
| 55312 | NM_018339 | **RFK** | riboflavin kinase | protein_coding | 37 | 29 | 38 | 30 | 0.776 |
| 55313 | NM_001099455,NM | **CPPED1** | calcineurin like phospho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55314 | NM_018342,XM_00 | **TMEM144** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55315 | NM_001174098,NM | **SLC29A3** | solute carrier family 29 m | protein_coding | 5 | 5 | 6 | 6 | 1.122 |
| 55316 | NM_018346,NR_13 | **RSAD1** | radical S-adenosyl methi | protein_coding | 39 | 37 | 40 | 38 | 0.944 |
| 55317 | NM_001204446,NM | **AP5S1** | adaptor related protein c | protein_coding | 9 | 9 | 10 | 10 | 1.026 |
| 55319 | NM_018352 | **TMA16** | translation machinery as | protein_coding | 59 | 54 | 60 | 55 | 0.908 |
| 55320 | NM_018353,XM_00 | **MIS18BP1** | MIS18 binding protein 1 | protein_coding | 11 | 9 | 12 | 10 | 0.815 |
| 55321 | NM_001304748,NM | **TMEM74B** | transmembrane protein 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55322 | NM_018356,NR_13 | **C5orf22** | chromosome 5 open rea | protein_coding | 40 | 36 | 41 | 37 | 0.902 |
| 55323 | NM_001286679,NM | **LARP6** | La ribonucleoprotein 6, t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55324 | NM_001351298,NM | **ABCF3** | ATP binding cassette sul | protein_coding | 47 | 49 | 48 | 50 | 1.045 |
| 55325 | NM_018359,NR_02 | **UFSP2** | UFM1 specific peptidase | protein_coding | 19 | 17 | 20 | 18 | 0.897 |
| 55326 | NM_018361,XM_01 | **AGPAT5** | 1-acylglycerol-3-phosph | protein_coding | 29 | 27 | 30 | 28 | 0.934 |
| 55327 | NM_018362 | **LIN7C** | lin-7 homolog C, crumbs | protein_coding | 26 | 23 | 27 | 24 | 0.891 |
| 55328 | NM_001031709,NM | **RNLS** | renalase, FAD depender | protein_coding | 5 | 5 | 6 | 6 | 0.943 |
| 55329 | NM_018365 | **MNS1** | meiosis specific nuclear s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55330 | NM_018366 | **BLOC1S4** | biogenesis of lysosomal | protein_coding | 21 | 21 | 22 | 22 | 0.995 |
| 55331 | NM_001300953,NM | **ACER3** | alkaline ceramidase 3 | protein_coding | 14 | 12 | 15 | 13 | 0.886 |
| 55332 | NM_018370,XM_00 | **DRAM1** | DNA damage regulated a | protein_coding | 3 | 3 | 4 | 4 | 0.941 |
| 55333 | NM_018373 | **SYNJ2BP** | synaptojanin 2 binding p | protein_coding | 7 | 7 | 8 | 8 | 0.984 |
| 55334 | NM_001252148,NM | **SLC39A9** | solute carrier family 39 m | protein_coding | 37 | 36 | 38 | 37 | 0.969 |
| 55335 | NM_018376,NR_13 | **NIPSNAP3B** | nipsnap homolog 3B | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 55336 | NM_018378 | **FBXL8** | F-box and leucine rich re | protein_coding | 2 | 2 | 3 | 3 | 1.033 |
| 55337 | NM_001308277,NM | **SHFL** | shiftless antiviral inhibitor | protein_coding | 99 | 104 | 100 | 105 | 1.046 |
| 55338 | NR_130914 | **LINC01949** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 55339 | NM_001006622,NM | **WDR33** | WD repeat domain 33 | protein_coding | 44 | 44 | 45 | 45 | 0.996 |
| 55340 | NM_018384 | **GIMAP5** | GTPase, IMAP family me | protein_coding | 210 | 238 | 211 | 239 | 1.130 |
| 55341 | NM_018385,XM_01 | **LSG1** | large 60S subunit nuclea | protein_coding | 77 | 77 | 78 | 78 | 1.001 |
| 55342 | NM_001171137,NM | **STRBP** | spermatid perinuclear RI | protein_coding | 35 | 23 | 36 | 24 | 0.674 |
| 55343 | NM_001145265,NM | **SLC35C1** | solute carrier family 35 m | protein_coding | 24 | 25 | 25 | 26 | 1.041 |
| 55344 | NM_001370370,NM | **PLCXD1** | phosphatidylinositol spe | protein_coding | 8 | 8 | 9 | 9 | 0.983 |
| 55345 | NM_001350397,NM | **ZGRF1** | zinc finger GRF-type cor | protein_coding | 11 | 9 | 12 | 10 | 0.841 |
| 55346 | NM_001145541,NM | **TCP11L1** | t-complex 11 like 1 | protein_coding | 13 | 12 | 14 | 13 | 0.961 |
| 55347 | NM_001272069,NM | **ABHD10** | abhydrolase domain con | protein_coding | 46 | 48 | 47 | 49 | 1.046 |
| 55349 | NM_018397,XM_00 | **CHDH** | choline dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 55350 | NM_001291702,NM | **VNN3** | vanin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.164 |
| 55351 | NM_001306082,NM | **STK32B** | serine/threonine kinase 3 | protein_coding | 1 | 1 | 2 | 2 | 1.085 |
| 55352 | NM_001330176,NM | **COPRS** | coordinator of PRMT5 an | protein_coding | 40 | 42 | 41 | 43 | 1.033 |
| 55353 | NM_018407 | **LAPTM4B** | lysosomal protein transm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55355 | NM_001282962,NM | **HJURP** | Holliday junction recogni | protein_coding | 104 | 90 | 105 | 91 | 0.864 |
| 55356 | NM_018420,XM_00 | **SLC22A15** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55357 | NM_001267571,NM | **TBC1D2** | TBC1 domain family mer | protein_coding | 2 | 2 | 3 | 3 | 1.129 |
| 55359 | NM_018423,XM_00 | **STYK1** | serine/threonine/tyrosine | protein_coding | 4 | 3 | 5 | 4 | 0.780 |
| 55361 | NM_018425 | **PI4K2A** | phosphatidylinositol 4-kir | protein_coding | 14 | 14 | 15 | 15 | 1.014 |
| 55362 | NM_001318792,NM | **TMEM63B** | transmembrane protein 6 | protein_coding | 8 | 8 | 9 | 9 | 0.947 |
| 55363 | NM_018437,NM_19 | **HEMGN** | hemogen | protein_coding | 1 | 2 | 2 | 3 | 1.346 |
| 55364 | NM_018439,XM_01 | **IMPACT** | impact RWD domain pro | protein_coding | 26 | 23 | 27 | 24 | 0.884 |
| 55365 | NM_018487,XM_01 | **TMEM176A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55366 | NM_001346432,NM | **LGR4** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55367 | NM_145886,NM_14 | **PIDD1** | p53-induced death doma | protein_coding | 12 | 12 | 13 | 13 | 0.989 |
| 55370 | NR_003505 | **PPP4R1L** | protein phosphatase 4 re | transcribed_pseu | 0 | 0 | 1 | 1 | 1.184 |
| 55374 | NM_001300980,NM | **TMCO6** | transmembrane and coil | protein_coding | 13 | 15 | 14 | 16 | 1.105 |
| 55379 | NM_018509 | **LRRC59** | leucine rich repeat conta | protein_coding | 219 | 214 | 220 | 215 | 0.978 |
| 55380 | gene-EPS15P1 | **EPS15P1** | epidermal growth factor r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 55384 | NR_002766,NR_00 | **MEG3** | maternally expressed 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 55388 | NM_018518,NM_18 | **MCM10** | minichromosome mainte | protein_coding | 54 | 50 | 55 | 51 | 0.926 |
| 55421 | NM_001114118,XM | **NCBP3** | nuclear cap binding subu | protein_coding | 12 | 17 | 13 | 18 | 1.395 |
| 55422 | NM_001079906,NM | **ZNF331** | zinc finger protein 331 | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 55423 | NM_001039508,NM | **SIRPG** | signal regulatory protein | protein_coding | 155 | 160 | 156 | 161 | 1.032 |
| 55425 | NM_001316951,NM | **GPALPP1** | GPALPP motifs containir | protein_coding | 29 | 29 | 30 | 30 | 1.000 |
| 55432 | NM_001276320,NM | **YOD1** | YOD1 deubiquitinase | protein_coding | 22 | 17 | 23 | 18 | 0.766 |
| 55435 | NM_001128426,NM | **AP1AR** | adaptor related protein c | protein_coding | 14 | 13 | 15 | 14 | 0.965 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 55437 | NM_001206864,NM | **STRADB** | STE20 related adaptor b | protein_coding | 3 | 3 | 4 | 4 | 1.106 |
| 55449 | NR_023921,NR_02 | **DHRS4-AS1** | DHRS4 antisense RNA 1 | lncRNA | 14 | 15 | 15 | 16 | 1.050 |
| 55450 | NM_018584 | **CAMK2N1** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55451 | NR_146595 | **LINC00216** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 55454 | NM_001319654,NM | **CSGALNACT2** | chondroitin sulfate N-ace | protein_coding | 48 | 40 | 49 | 41 | 0.821 |
| 55466 | NM_001130182,NM | **DNAJA4** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55471 | NM_001083946,NM | **NDUFAF7** | NADH:ubiquinone oxidor | protein_coding | 23 | 16 | 24 | 17 | 0.725 |
| 55472 | NR_027259 | **RBM12B-AS1** | RBM12B antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.564 |
| 55486 | NM_001037639,NM | **PARL** | presenilin associated rho | protein_coding | 82 | 84 | 83 | 85 | 1.019 |
| 55500 | NM_001039481,NM | **ETNK1** | ethanolamine kinase 1 | protein_coding | 25 | 20 | 26 | 21 | 0.802 |
| 55501 | NM_001243794,NM | **CHST12** | carbohydrate sulfotransf | protein_coding | 13 | 19 | 14 | 20 | 1.448 |
| 55502 | NM_001142853,NM | **HES6** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55503 | NM_018646 | **TRPV6** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55504 | NM_001204458,NM | **TNFRSF19** | TNF receptor superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55505 | NM_018648 | **NOP10** | NOP10 ribonucleoprotein | protein_coding | 480 | 484 | 481 | 485 | 1.009 |
| 55506 | NM_018649 | **MACROH2A2** | macroH2A.2 histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55507 | NM_018654,XM_005 | **GPRC5D** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55508 | NM_001354997,NM | **SLC35E3** | solute carrier family 35 m | protein_coding | 2 | 2 | 3 | 3 | 1.017 |
| 55509 | NM_018664,XM_01 | **BATF3** | basic leucine zipper ATF | protein_coding | 11 | 10 | 12 | 11 | 0.911 |
| 55510 | NM_018665 | **DDX43** | DEAD-box helicase 43 | protein_coding | 5 | 3 | 6 | 4 | 0.730 |
| 55511 | NM_001381902,NM | **SAGE1** | sarcoma antigen 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55512 | NM_018667,XM_005 | **SMPD3** | sphingomyelin phosphoc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55515 | NM_018674,NM_18 | **ASIC4** | acid sensing ion channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55520 | NM_018696 | **ELAC1** | elaC ribonuclease Z 1 | protein_coding | 10 | 11 | 11 | 12 | 1.106 |
| 55521 | NM_001017397,NM | **TRIM36** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55526 | NM_018706 | **DHTKD1** | dehydrogenase E1 and t | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 55527 | NM_018708 | **FEM1A** | fem-1 homolog A | protein_coding | 21 | 21 | 22 | 22 | 0.975 |
| 55529 | NM_018710,XM_01 | **PIP4P2** | phosphatidylinositol-4,5- | protein_coding | 2 | 3 | 3 | 4 | 1.245 |
| 55530 | NM_018711 | **SVOP** | SV2 related protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55531 | NM_001130037,NM | **ELMOD1** | ELMO domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55532 | NM_001376929,NM | **SLC30A10** | solute carrier family 30 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55534 | NM_018717 | **MAML3** | mastermind like transcrip | protein_coding | 7 | 7 | 8 | 8 | 0.960 |
| 55536 | NM_001127370,NM | **CDCA7L** | cell division cycle associa | protein_coding | 1 | 1 | 2 | 2 | 1.025 |
| 55539 | NR_024627 | **KCNQ1DN** | KCNQ1 downstream neig | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 55540 | NM_018725,XM_005 | **IL17RB** | interleukin 17 receptor B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55544 | NM_001291780,NM | **RBM38** | RNA binding motif protei | protein_coding | 359 | 339 | 360 | 340 | 0.944 |
| 55545 | NR_002307 | **MSX2P1** | msh homeobox 2 pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 55552 | NM_001080493,NM | **ZNF823** | zinc finger protein 823 | protein_coding | 12 | 14 | 13 | 15 | 1.145 |
| 55553 | NM_001145811,NM | **SOX6** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 55554 | NM_001277081,NM | **KLK15** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55556 | NM_001318760,NM | **ENOSF1** | enolase superfamily mer | protein_coding | 6 | 8 | 7 | 9 | 1.207 |
| 55558 | NM_017514,XM_005 | **PLXNA3** | plexin A3 | protein_coding | 2 | 3 | 3 | 4 | 1.176 |
| 55559 | NM_017518,NR_07 | **HAUS7** | HAUS augmin like compl | protein_coding | 49 | 50 | 50 | 51 | 1.031 |
| 55561 | NM_017525,XM_01 | **CDC42BPG** | CDC42 binding protein k | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 55565 | NM_001201552,NM | **ZNF821** | zinc finger protein 821 | protein_coding | 1 | 1 | 2 | 2 | 0.870 |
| 55567 | NM_001347886,NM | **DNAH3** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55568 | NM_198321 | **GALNT10** | polypeptide N-acetylgala | protein_coding | 39 | 31 | 40 | 32 | 0.811 |
| 55571 | NM_017546 | **CNOT11** | CCR4-NOT transcription | protein_coding | 63 | 64 | 64 | 65 | 1.013 |
| 55572 | NM_017547,NR_03 | **FOXRED1** | FAD dependent oxidored | protein_coding | 70 | 75 | 71 | 76 | 1.072 |
| 55573 | NM_001134422,NM | **CDV3** | CDV3 homolog | protein_coding | 268 | 253 | 269 | 254 | 0.943 |
| 55576 | NM_017564,XM_01 | **STAB2** | stabilin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55577 | NM_001330425,NM | **NAGK** | N-acetylglucosamine kin | protein_coding | 28 | 32 | 29 | 33 | 1.170 |
| 55578 | NM_001014286,NM | **SUPT20H** | SPT20 homolog, SAGA c | protein_coding | 20 | 17 | 21 | 18 | 0.870 |
| 55582 | NM_001271927,NM | **KIF27** | kinesin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 55584 | NM_017581 | **CHRNA9** | cholinergic receptor nico | protein_coding | 0 | 0 | 1 | 1 | 1.088 |
| 55585 | NM_017582 | **UBE2Q1** | ubiquitin conjugating en | protein_coding | 82 | 81 | 83 | 82 | 0.983 |
| 55586 | NM_017584,XM_005 | **MIOX** | myo-inositol oxygenase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55588 | NM_001317770,NM | **MED29** | mediator complex subun | protein_coding | 51 | 52 | 52 | 53 | 1.011 |
| 55589 | NM_017593,NM_19 | **BMP2K** | BMP2 inducible kinase | protein_coding | 7 | 6 | 8 | 7 | 0.884 |
| 55591 | NM_001352088,NM | **VEZT** | vezatin, adherens junctic | protein_coding | 21 | 21 | 22 | 22 | 1.022 |
| 55592 | NR_024261,NR_03 | **GOLGA2P5** | GOLGA2 pseudogene 5 | transcribed_pseu | 5 | 4 | 6 | 5 | 0.905 |
| 55593 | NM_001136157,NM | **OTUD5** | OTU deubiquitinase 5 | protein_coding | 40 | 34 | 41 | 35 | 0.845 |
| 55596 | NM_001350935,NM | **ZCCHC8** | zinc finger CCHC-type co | protein_coding | 17 | 16 | 18 | 17 | 0.925 |
| 55599 | NM_017619 | **RNPC3** | RNA binding region (RNI | protein_coding | 10 | 8 | 11 | 9 | 0.746 |
| 55600 | NM_017625 | **ITLN1** | intelectin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.833 |
| 55601 | NM_017631,XM_01 | **DDX60** | DExD/H-box helicase 60 | protein_coding | 19 | 15 | 20 | 16 | 0.793 |
| 55602 | NM_001317343,NM | **CDKN2AIP** | CDKN2A interacting prot | protein_coding | 30 | 30 | 31 | 31 | 1.012 |
| 55603 | NM_017633 | **TENT5A** | terminal nucleotidyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55604 | NM_001173977,NM | **CARMIL1** | capping protein regulato | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 55605 | NM_001173463,NM | **KIF21A** | kinesin family member 2 | protein_coding | 21 | 18 | 22 | 19 | 0.847 |
| 55607 | NM_001166160,NM | **PPP1R9A** | protein phosphatase 1 re | protein_coding | 6 | 5 | 7 | 6 | 0.817 |
| 55608 | NM_001286721,NM | **ANKRD10** | ankyrin repeat domain 1 | protein_coding | 60 | 53 | 61 | 54 | 0.884 |
| 55609 | NM_017666,XM_00 | **ZNF280C** | zinc finger protein 280C | protein_coding | 14 | 12 | 15 | 13 | 0.854 |
| 55610 | NM_001257998,NM | **VPS50** | VPS50 subunit of EARP/ | protein_coding | 14 | 13 | 15 | 14 | 0.903 |
| 55611 | NM_017670,NR_00 | **OTUB1** | OTU deubiquitinase, ubi | protein_coding | 105 | 111 | 106 | 112 | 1.060 |
| 55612 | NM_017671,XM_02 | **FERMT1** | fermitin family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55613 | NM_017677 | **MTMR8** | myotubularin related pro | protein_coding | 0 | 1 | 1 | 2 | 1.120 |
| 55614 | NM_001199865,NM | **KIF16B** | kinesin family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55615 | NM_001017528,NM | **PRR5** | proline rich 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55616 | NM_001143778,NM | **ASAP3** | ArfGAP with SH3 domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55617 | NM_001323602,NM | **TASP1** | taspase 1 | protein_coding | 5 | 6 | 6 | 7 | 1.091 |
| 55619 | NM_001290263,NM | **DOCK10** | dedicator of cytokinesis 1 | protein_coding | 84 | 73 | 85 | 74 | 0.880 |
| 55620 | NM_001013841,NM | **STAP2** | signal transducing adapt | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 55621 | NM_001136035,NM | **TRMT1** | tRNA methyltransferase | protein_coding | 66 | 74 | 67 | 75 | 1.116 |
| 55622 | NM_001193509,NM | **TTC27** | tetratricopeptide repeat c | protein_coding | 14 | 12 | 15 | 13 | 0.864 |
| 55623 | NM_001304550,NM | **THUMPD1** | THUMP domain containi | protein_coding | 50 | 42 | 51 | 43 | 0.855 |
| 55624 | NM_001243766,NM | **POMGNT1** | protein O-linked mannos | protein_coding | 42 | 44 | 43 | 45 | 1.053 |
| 55625 | NM_001145548,NM | **ZDHHC7** | zinc finger DHHC-type pa | protein_coding | 42 | 34 | 43 | 35 | 0.827 |
| 55626 | NM_001267782,NM | **AMBRA1** | autophagy and beclin 1 r | protein_coding | 26 | 25 | 27 | 26 | 0.955 |
| 55627 | NM_001171083,NM | **SMPD4** | sphingomyelin phosphoc | protein_coding | 106 | 109 | 107 | 110 | 1.027 |
| 55628 | NM_001146189,NM | **ZNF407** | zinc finger protein 407 | protein_coding | 5 | 5 | 6 | 6 | 0.880 |
| 55629 | NM_017761,XM_01 | **PNRC2** | proline rich nuclear recep | protein_coding | 291 | 254 | 292 | 255 | 0.873 |
| 55630 | NM_001280557,NM | **SLC39A4** | solute carrier family 39 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55631 | NM_017768,XM_005 | **LRRC40** | leucine rich repeat conta | protein_coding | 63 | 54 | 64 | 55 | 0.861 |
| 55632 | NM_001308097,NM | **G2E3** | G2/M-phase specific E3 | protein_coding | 24 | 20 | 25 | 21 | 0.827 |
| 55633 | NM_017772,NR_13 | **TBC1D22B** | TBC1 domain family mer | protein_coding | 20 | 18 | 21 | 19 | 0.938 |
| 55634 | NM_001129898,NM | **KRBOX4** | KRAB box domain contai | protein_coding | 4 | 4 | 5 | 5 | 1.103 |
| 55635 | NM_001114120,NM | **DEPDC1** | DEP domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55636 | NM_001316690,NM | **CHD7** | chromodomain helicase l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55638 | NM_001099743,NM | **SYBU** | syntabulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55640 | NM_001195283,NM | **FLVCR2** | FLVCR heme transporter | protein_coding | 0 | 1 | 1 | 2 | 1.215 |
| 55643 | NM_017797,XM_01 | **BTBD2** | BTB domain containing 2 | protein_coding | 1 | 1 | 2 | 2 | 1.172 |
| 55644 | NM_017807 | **OSGEP** | O-sialoglycoprotein endc | protein_coding | 29 | 32 | 30 | 33 | 1.105 |
| 55646 | NM_001145725,NM | **LYAR** | Ly1 antibody reactive | protein_coding | 210 | 206 | 211 | 207 | 0.982 |
| 55647 | NM_017817 | **RAB20** | RAB20, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55650 | NM_001202554,NM | **PIGV** | phosphatidylinositol glyc | protein_coding | 8 | 8 | 9 | 9 | 1.009 |
| 55651 | NM_001034833,NM | **NHP2** | NHP2 ribonucleoprotein | protein_coding | 481 | 503 | 482 | 504 | 1.045 |
| 55652 | NM_017842,XM_005 | **SLC48A1** | solute carrier family 48 m | protein_coding | 5 | 6 | 6 | 7 | 1.074 |
| 55653 | NM_001010974,NM | **BCAS4** | breast carcinoma amplifi | protein_coding | 16 | 16 | 17 | 17 | 0.950 |
| 55654 | NM_001193304,NM | **TMEM127** | transmembrane protein 1 | protein_coding | 39 | 38 | 40 | 39 | 0.976 |
| 55655 | NM_001174081,NM | **NLRP2** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.048 |
| 55656 | NM_017864,NR_07 | **INTS8** | integrator complex subur | protein_coding | 27 | 25 | 28 | 26 | 0.919 |
| 55657 | NM_001136036,NM | **ZNF692** | zinc finger protein 692 | protein_coding | 13 | 12 | 14 | 13 | 0.901 |
| 55658 | NM_001366018,NM | **RNF126** | ring finger protein 126 | protein_coding | 80 | 83 | 81 | 84 | 1.034 |
| 55659 | NM_001353405,NM | **ZNF416** | zinc finger protein 416 | protein_coding | 5 | 6 | 6 | 7 | 1.040 |
| 55660 | NM_001354431,NM | **PRPF40A** | pre-mRNA processing fa | protein_coding | 93 | 85 | 94 | 86 | 0.915 |
| 55661 | NM_001348187,NM | **DDX27** | DEAD-box helicase 27 | protein_coding | 164 | 163 | 165 | 164 | 0.988 |
| 55662 | NM_017902,XM_01 | **HIF1AN** | hypoxia inducible factor 1 | protein_coding | 32 | 30 | 33 | 31 | 0.936 |
| 55663 | NM_001304453,NM | **ZNF446** | zinc finger protein 446 | protein_coding | 3 | 3 | 4 | 4 | 0.959 |
| 55664 | NM_017913 | **CDC37L1** | cell division cycle 37 like | protein_coding | 14 | 13 | 15 | 14 | 0.926 |
| 55665 | NM_001077663,NM | **URGCP** | upregulator of cell prolife | protein_coding | 13 | 14 | 14 | 15 | 1.075 |
| 55666 | NM_001369698,NM | **NPLOC4** | NPL4 homolog, ubiquitin | protein_coding | 88 | 85 | 89 | 86 | 0.963 |
| 55667 | NM_001330640,NM | **DENND4C** | DENN domain containing | protein_coding | 13 | 11 | 14 | 12 | 0.857 |
| 55668 | NM_001322026,NM | **GPATCH2L** | G-patch domain containi | protein_coding | 14 | 13 | 15 | 14 | 0.933 |
| 55669 | NM_033540,XM_005 | **MFN1** | mitofusin 1 | protein_coding | 18 | 16 | 19 | 17 | 0.888 |
| 55670 | NM_001127649,NM | **PEX26** | peroxisomal biogenesis f | protein_coding | 7 | 6 | 8 | 7 | 0.904 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 55671 | NM_001284280,NM | **PPP4R3A** | protein phosphatase 4 re | protein_coding | 100 | 86 | 101 | 87 | 0.870 |
| 55672 | NM_017940 | **NBPF1** | NBPF member 1 | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 55676 | NM_001193513,NM | **SLC30A6** | solute carrier family 30 m | protein_coding | 31 | 27 | 32 | 28 | 0.873 |
| 55677 | NM_017969,XM_00 | **IWS1** | interacts with SUPT6H, ( | protein_coding | 79 | 75 | 80 | 76 | 0.942 |
| 55679 | NM_001136037,NM | **LIMS2** | LIM zinc finger domain c | protein_coding | 0 | 0 | 1 | 1 | 1.078 |
| 55680 | NM_001042417,NM | **RUFY2** | RUN and FYVE domain ( | protein_coding | 3 | 2 | 4 | 3 | 0.863 |
| 55681 | NM_001317784,NM | **SCYL2** | SCY1 like pseudokinase | protein_coding | 26 | 22 | 27 | 23 | 0.836 |
| 55683 | NM_001115016,NM | **KANSL3** | KAT8 regulatory NSL cor | protein_coding | 45 | 41 | 46 | 42 | 0.928 |
| 55684 | NM_001173988,NM | **RABL6** | RAB, member RAS onco | protein_coding | 108 | 110 | 109 | 111 | 1.012 |
| 55686 | NM_001372188,NM | **MREG** | melanoregulin | protein_coding | 12 | 11 | 13 | 12 | 0.929 |
| 55687 | NM_001282782,NM | **TRMU** | tRNA 5-methylaminomet | protein_coding | 27 | 28 | 28 | 29 | 1.026 |
| 55689 | NM_001351369,NM | **YEATS2** | YEATS domain containin | protein_coding | 45 | 40 | 46 | 41 | 0.890 |
| 55690 | NM_018026,XM_01 | **PACS1** | phosphofurin acidic clust | protein_coding | 5 | 5 | 6 | 6 | 0.953 |
| 55691 | NM_001318336,NM | **FRMD4A** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55692 | NM_001320226,NM | **LUC7L** | LUC7 like | protein_coding | 46 | 52 | 47 | 53 | 1.133 |
| 55693 | NM_018039 | **KDM4D** | lysine demethylase 4D | protein_coding | 3 | 3 | 4 | 4 | 0.906 |
| 55695 | NM_001168347,NM | **NSUN5** | NOP2/Sun RNA methyltr | protein_coding | 73 | 68 | 74 | 69 | 0.935 |
| 55696 | NM_018047,XR_00 | **RBM22** | RNA binding motif protei | protein_coding | 113 | 108 | 114 | 109 | 0.955 |
| 55697 | NM_001351157,NM | **VAC14** | VAC14 component of PI | protein_coding | 14 | 14 | 15 | 15 | 1.032 |
| 55698 | NM_018059 | **RADIL** | Rap associating with DIL | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55699 | NM_018060 | **IARS2** | isoleucyl-tRNA synthetas | protein_coding | 58 | 58 | 59 | 59 | 0.994 |
| 55700 | NM_001286365,NM | **MAP7D1** | MAP7 domain containing | protein_coding | 93 | 97 | 94 | 98 | 1.039 |
| 55701 | NM_001278529,NM | **ARHGEF40** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 55702 | NM_018074 | **YJU2** | YJU2 splicing factor hom | protein_coding | 49 | 55 | 50 | 56 | 1.126 |
| 55703 | NM_001160708,NM | **POLR3B** | RNA polymerase III subu | protein_coding | 14 | 15 | 15 | 16 | 1.020 |
| 55704 | NM_001135597,NM | **CCDC88A** | coiled-coil domain contai | protein_coding | 5 | 4 | 6 | 5 | 0.768 |
| 55705 | NM_018085 | **IPO9** | importin 9 | protein_coding | 20 | 18 | 21 | 19 | 0.904 |
| 55706 | NM_001168551,NM | **NDC1** | NDC1 transmembrane n | protein_coding | 89 | 76 | 90 | 77 | 0.855 |
| 55707 | NM_001145277,NM | **NECAP2** | NECAP endocytosis ass | protein_coding | 73 | 74 | 74 | 75 | 1.006 |
| 55709 | NM_001318716,NM | **KBTBD4** | kelch repeat and BTB do | protein_coding | 21 | 22 | 22 | 23 | 1.012 |
| 55711 | NM_001271783,NM | **FAR2** | fatty acyl-CoA reductase | protein_coding | 11 | 11 | 12 | 12 | 0.927 |
| 55713 | NM_001270497,NM | **ZNF334** | zinc finger protein 334 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55714 | NM_001080477,XM | **TENM3** | teneurin transmembrane | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 55715 | NM_001330556,NM | **DOK4** | docking protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.125 |
| 55716 | NM_001300750,NM | **LMBR1L** | limb development memb | protein_coding | 9 | 8 | 10 | 9 | 0.842 |
| 55717 | NM_018117,XM_00 | **WDR11** | WD repeat domain 11 | protein_coding | 8 | 8 | 9 | 9 | 0.992 |
| 55718 | NM_001258033,NM | **POLR3E** | RNA polymerase III subu | protein_coding | 90 | 86 | 91 | 87 | 0.955 |
| 55719 | NM_001136123,NM | **SLF2** | SMC5-SMC6 complex loc | protein_coding | 33 | 27 | 34 | 28 | 0.845 |
| 55720 | NM_018128 | **TSR1** | TSR1 ribosome maturatic | protein_coding | 67 | 62 | 68 | 63 | 0.931 |
| 55721 | NM_001160042,NM | **IQCC** | IQ motif containing C | protein_coding | 10 | 8 | 11 | 9 | 0.876 |
| 55722 | NM_018140,NR_16 | **CEP72** | centrosomal protein 72 | protein_coding | 9 | 7 | 10 | 8 | 0.828 |
| 55723 | NM_018154 | **ASF1B** | anti-silencing function 1E | protein_coding | 147 | 158 | 148 | 159 | 1.074 |
| 55726 | NM_018164,XM_00 | **INTS13** | integrator complex subur | protein_coding | 90 | 79 | 91 | 80 | 0.878 |
| 55727 | NM_001002860,NM | **BTBD7** | BTB domain containing 7 | protein_coding | 10 | 8 | 11 | 9 | 0.830 |
| 55728 | NM_001318359,NM | **N4BP2** | NEDD4 binding protein 2 | protein_coding | 13 | 11 | 14 | 12 | 0.848 |
| 55729 | NM_001286514,NM | **ATF7IP** | activating transcription fa | protein_coding | 7 | 5 | 8 | 6 | 0.830 |
| 55731 | NM_001077498,NM | **FAM222B** | family with sequence sim | protein_coding | 17 | 17 | 18 | 18 | 1.037 |
| 55732 | NM_001320047,NM | **C1orf112** | chromosome 1 open rea | protein_coding | 17 | 17 | 18 | 18 | 0.972 |
| 55733 | NM_001122834,NM | **HHAT** | hedgehog acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55734 | NM_001319146,NM | **ZFP64** | ZFP64 zinc finger protein | protein_coding | 17 | 20 | 18 | 21 | 1.163 |
| 55735 | NM_018198,XM_01 | **DNAJC11** | DnaJ heat shock protein | protein_coding | 91 | 89 | 92 | 90 | 0.977 |
| 55737 | NM_018206,XM_00 | **VPS35** | VPS35 retromer complex | protein_coding | 39 | 36 | 40 | 37 | 0.920 |
| 55738 | NM_001281482,NM | **ARFGAP1** | ADP ribosylation factor G | protein_coding | 54 | 58 | 55 | 59 | 1.060 |
| 55739 | NM_001242881,NM | **NAXD** | NAD(P)HX dehydratase | protein_coding | 29 | 29 | 30 | 30 | 1.015 |
| 55740 | NM_001008493,NM | **ENAH** | ENAH actin regulator | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55741 | NM_001145025,NM | **EDEM2** | ER degradation enhanci | protein_coding | 42 | 40 | 43 | 41 | 0.949 |
| 55742 | NM_018222,XM_00 | **PARVA** | parvin alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55743 | NM_001161344,NM | **CHFR** | checkpoint with forkhead | protein_coding | 1 | 1 | 2 | 2 | 0.729 |
| 55744 | NM_001321197,NM | **COA1** | cytochrome c oxidase as | protein_coding | 23 | 21 | 24 | 22 | 0.895 |
| 55745 | NM_018229,NR_02 | **AP5M1** | adaptor related protein c | protein_coding | 11 | 11 | 12 | 12 | 0.999 |
| 55746 | NM_018230,XR_00 | **NUP133** | nucleoporin 133 | protein_coding | 35 | 31 | 36 | 32 | 0.890 |
| 55748 | NM_001168499,NM | **CNDP2** | carnosine dipeptidase 2 | protein_coding | 81 | 85 | 82 | 86 | 1.046 |
| 55749 | NM_001282959,NM | **CCAR1** | cell division cycle and ap | protein_coding | 93 | 82 | 94 | 83 | 0.883 |
| 55750 | NM_001364948,NM | **AGK** | acylglycerol kinase | protein_coding | 19 | 23 | 20 | 24 | 1.202 |
| 55751 | NM_018241,XR_00 | **TMEM184C** | transmembrane protein 1 | protein_coding | 27 | 22 | 28 | 23 | 0.836 |
| 55752 | NM_001306147,NM | **SEPTIN11** | septin 11 | protein_coding | 30 | 27 | 31 | 28 | 0.919 |
| 55753 | NM_001143996,NM | **OGDHL** | oxoglutarate dehydroger | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55754 | NM_001143958,NM | **TMEM30A** | transmembrane protein 3 | protein_coding | 70 | 58 | 71 | 59 | 0.829 |
| 55755 | NM_001011649,NM | **CDK5RAP2** | CDK5 regulatory subunit | protein_coding | 27 | 24 | 28 | 25 | 0.869 |
| 55756 | NM_001145159,NM | **INTS9** | integrator complex subur | protein_coding | 15 | 14 | 16 | 15 | 0.973 |
| 55757 | NM_020121,XM_01 | **UGGT2** | UDP-glucose glycoprotei | protein_coding | 5 | 4 | 6 | 5 | 0.839 |
| 55758 | NM_001136223,NM | **RCOR3** | REST corepressor 3 | protein_coding | 14 | 14 | 15 | 15 | 0.993 |
| 55759 | NM_001371664,NM | **WDR12** | WD repeat domain 12 | protein_coding | 34 | 33 | 35 | 34 | 0.971 |
| 55760 | NM_018180 | **DHX32** | DEAH-box helicase 32 (p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55761 | NM_001307943,NM | **TTC17** | tetratricopeptide repeat c | protein_coding | 21 | 19 | 22 | 20 | 0.900 |
| 55762 | NM_001172655,NM | **ZNF701** | zinc finger protein 701 | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 55763 | NM_001024924,NM | **EXOC1** | exocyst complex compor | protein_coding | 17 | 17 | 18 | 18 | 1.001 |
| 55764 | NM_001280541,NM | **IFT122** | intraflagellar transport 12 | protein_coding | 12 | 13 | 13 | 14 | 1.059 |
| 55765 | NM_001142569,NM | **INAVA** | innate immunity activator | protein_coding | 22 | 14 | 23 | 15 | 0.628 |
| 55766 | NM_177925,NR_02 | **H2AJ** | H2A.J histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55768 | NM_001145293,NM | **NGLY1** | N-glycanase 1 | protein_coding | 35 | 35 | 36 | 36 | 0.993 |
| 55769 | NM_001105549,NM | **ZNF83** | zinc finger protein 83 | protein_coding | 9 | 7 | 10 | 8 | 0.836 |
| 55770 | NM_018303,NR_07 | **EXOC2** | exocyst complex compor | protein_coding | 26 | 23 | 27 | 24 | 0.873 |
| 55771 | NM_018304,XM_02 | **PRR11** | proline rich 11 | protein_coding | 58 | 46 | 59 | 47 | 0.793 |
| 55773 | NM_001199198,NM | **TBC1D23** | TBC1 domain family mer | protein_coding | 25 | 22 | 26 | 23 | 0.899 |
| 55775 | NM_001008744,NM | **TDP1** | tyrosyl-DNA phosphodies | protein_coding | 27 | 25 | 28 | 26 | 0.937 |
| 55776 | NM_001304793,NM | **SAYSD1** | SAYSVFN motif domain | protein_coding | 10 | 8 | 11 | 9 | 0.871 |
| 55777 | NM_001378120,NM | **MBD5** | methyl-CpG binding dor | protein_coding | 2 | 2 | 3 | 3 | 0.940 |
| 55778 | NM_001267827,NM | **ZNF839** | zinc finger protein 839 | protein_coding | 4 | 5 | 5 | 6 | 1.102 |
| 55779 | NM_001164496,NM | **CFAP44** | cilia and flagella associat | protein_coding | 3 | 2 | 4 | 3 | 0.824 |
| 55780 | NM_001278531,NM | **ERMARD** | ER membrane associate | protein_coding | 12 | 15 | 13 | 16 | 1.219 |
| 55781 | NM_001159749,NM | **RIOK2** | RIO kinase 2 | protein_coding | 47 | 42 | 48 | 43 | 0.901 |
| 55783 | NM_001099642,NM | **CMTR2** | cap methyltransferase 2 | protein_coding | 16 | 14 | 17 | 15 | 0.872 |
| 55784 | NM_001159643,NM | **MCTP2** | multiple C2 and transme | protein_coding | 33 | 27 | 34 | 28 | 0.825 |
| 55785 | NM_018351 | **FGD6** | FYVE, RhoGEF and PH | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 55786 | NM_001136038,NM | **ZNF415** | zinc finger protein 415 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55787 | NM_001168683,NM | **TXLNG** | taxilin gamma | protein_coding | 42 | 37 | 43 | 38 | 0.885 |
| 55788 | NM_001363722,NM | **LMBRD1** | LMBR1 domain containir | protein_coding | 15 | 13 | 16 | 14 | 0.906 |
| 55789 | NM_001145208,NM | **DEPDC1B** | DEP domain containing 1 | protein_coding | 70 | 58 | 71 | 59 | 0.826 |
| 55790 | NM_001130518,NM | **CSGALNACT1** | chondroitin sulfate N-ace | protein_coding | 1 | 1 | 2 | 2 | 0.935 |
| 55791 | NM_001006945,NM | **LRIF1** | ligand dependent nuclea | protein_coding | 141 | 108 | 142 | 109 | 0.769 |
| 55793 | NM_001040217,NM | **MINDY1** | MINDY lysine 48 deubiqu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55794 | NM_018380 | **DDX28** | DEAD-box helicase 28 | protein_coding | 20 | 20 | 21 | 21 | 0.977 |
| 55795 | NM_001127202,NM | **PCID2** | PCI domain containing 2 | protein_coding | 71 | 61 | 72 | 62 | 0.855 |
| 55796 | NM_001170701,NM | **MBNL3** | muscleblind like splicing | protein_coding | 24 | 21 | 25 | 22 | 0.893 |
| 55798 | NM_018396 | **METTL2B** | methyltransferase like 2E | protein_coding | 37 | 34 | 38 | 35 | 0.917 |
| 55799 | NM_018398 | **CACNA2D3** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55800 | NM_001040151,NM | **SCN3B** | sodium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55801 | NM_018402 | **IL26** | interleukin 26 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55802 | NM_001290204,NM | **DCP1A** | decapping mRNA 1A | protein_coding | 25 | 19 | 26 | 20 | 0.798 |
| 55803 | NM_001346712,NM | **ADAP2** | ArfGAP with dual PH dor | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 55805 | NM_001377440,NM | **LRP2BP** | LRP2 binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.170 |
| 55806 | NM_005144,NM_01 | **HR** | HR lysine demethylase a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55808 | NM_001289107,NM | **ST6GALNAC1** | ST6 N-acetylgalactosami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55809 | NM_001297573,NM | **TRERF1** | transcriptional regulating | protein_coding | 20 | 20 | 21 | 21 | 0.971 |
| 55810 | NM_018416,XM_01 | **FOXJ2** | forkhead box J2 | protein_coding | 8 | 7 | 9 | 8 | 0.925 |
| 55811 | NM_001167749,NM | **ADCY10** | adenylate cyclase 10 | protein_coding | 0 | 0 | 1 | 1 | 0.968 |
| 55812 | NM_001040428,NM | **SPATA7** | spermatogenesis associa | protein_coding | 2 | 2 | 3 | 3 | 0.900 |
| 55813 | NM_018428,XM_00 | **UTP6** | UTP6 small subunit proc | protein_coding | 102 | 101 | 103 | 102 | 0.984 |
| 55814 | NM_018429,XM_01 | **BDP1** | B double prime 1, subun | protein_coding | 42 | 30 | 43 | 31 | 0.731 |
| 55815 | NM_001288990,NM | **TSNAXIP1** | translin associated factor | protein_coding | 0 | 0 | 1 | 1 | 1.208 |
| 55816 | NM_001294161,NM | **DOK5** | docking protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55818 | NM_001146688,NM | **KDM3A** | lysine demethylase 3A | protein_coding | 20 | 19 | 21 | 20 | 0.957 |
| 55819 | NM_001280801,NM | **RNF130** | ring finger protein 130 | protein_coding | 8 | 8 | 9 | 9 | 1.114 |
| 55821 | NM_018436,XM_01 | **ALLC** | allantoicase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55823 | NM_001290185,NM | **VPS11** | VPS11 core subunit of C | protein_coding | 26 | 28 | 27 | 29 | 1.066 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 55824 | NM_018440,XM_01 | **PAG1** | phosphoprotein membra | protein_coding | 12 | 12 | 13 | 13 | 0.978 |
| 55825 | NM_018441,XM_02 | **PECR** | peroxisomal trans-2-eno | protein_coding | 19 | 11 | 20 | 12 | 0.596 |
| 55827 | NM_001017977,NM | **DCAF6** | DDB1 and CUL4 associa | protein_coding | 32 | 30 | 33 | 31 | 0.961 |
| 55829 | NM_018445,NM_20 | **SELENOS** | selenoprotein S | protein_coding | 96 | 93 | 97 | 94 | 0.962 |
| 55830 | NM_001010983,NM | **GLT8D1** | glycosyltransferase 8 do | protein_coding | 21 | 23 | 22 | 24 | 1.117 |
| 55831 | NM_018447,NR_14 | **EMC3** | ER membrane protein co | protein_coding | 41 | 42 | 42 | 43 | 1.012 |
| 55832 | NM_001329674,NM | **CAND1** | cullin associated and ne | protein_coding | 48 | 41 | 49 | 42 | 0.857 |
| 55833 | NM_001282530,NM | **UBAP2** | ubiquitin associated pro | protein_coding | 48 | 45 | 49 | 46 | 0.948 |
| 55835 | NM_018451,NR_04 | **CENPJ** | centromere protein J | protein_coding | 21 | 19 | 22 | 20 | 0.900 |
| 55837 | NM_001318916,NM | **EAPP** | E2F associated phospho | protein_coding | 26 | 30 | 27 | 31 | 1.130 |
| 55839 | NM_001100624,NM | **CENPN** | centromere protein N | protein_coding | 35 | 34 | 36 | 35 | 0.948 |
| 55840 | NM_001320041,NM | **EAF2** | ELL associated factor 2 | protein_coding | 17 | 14 | 18 | 15 | 0.863 |
| 55841 | NM_015691 | **WWC3** | WWC family member 3 | protein_coding | 10 | 7 | 11 | 8 | 0.746 |
| 55843 | NM_018460,XM_01 | **ARHGAP15** | Rho GTPase activating p | protein_coding | 73 | 66 | 74 | 67 | 0.906 |
| 55844 | NM_001291310,NM | **PPP2R2D** | protein phosphatase 2 re | protein_coding | 16 | 15 | 17 | 16 | 0.897 |
| 55845 | NM_018462 | **BRK1** | BRICK1 subunit of SCAF | protein_coding | 227 | 220 | 228 | 221 | 0.971 |
| 55846 | NM_018463,NR_13 | **ITFG2** | integrin alpha FG-GAP r | protein_coding | 16 | 15 | 17 | 16 | 0.920 |
| 55847 | NM_018464 | **CISD1** | CDGSH iron sulfur doma | protein_coding | 31 | 29 | 32 | 30 | 0.945 |
| 55848 | NM_018465,XM_00 | **PLGRKT** | plasminogen receptor wi | protein_coding | 34 | 30 | 35 | 31 | 0.900 |
| 55850 | NM_018467,XM_01 | **USE1** | unconventional SNARE i | protein_coding | 23 | 32 | 24 | 33 | 1.347 |
| 55851 | NM_001281532,NM | **PSENEN** | presenilin enhancer, gan | protein_coding | 55 | 58 | 56 | 59 | 1.057 |
| 55852 | NM_001288732,NM | **TEX2** | testis expressed 2 | protein_coding | 12 | 10 | 13 | 11 | 0.896 |
| 55853 | NR_024628,NR_02 | **IDI2-AS1** | IDI2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.907 |
| 55854 | NM_018471,XM_01 | **ZC3H15** | zinc finger CCCH-type co | protein_coding | 298 | 263 | 299 | 264 | 0.882 |
| 55855 | NR_027141 | **DENND10P1** | DENND10 pseudogene 1 | transcribed_pseu | 7 | 6 | 8 | 7 | 0.831 |
| 55856 | NM_001160094,NM | **ACOT13** | acyl-CoA thioesterase 13 | protein_coding | 17 | 16 | 18 | 17 | 0.937 |
| 55857 | NM_001163022,NM | **KIZ** | kizuna centrosomal prote | protein_coding | 7 | 7 | 8 | 8 | 0.932 |
| 55858 | NM_018475,NR_07 | **TMEM165** | transmembrane protein 1 | protein_coding | 79 | 81 | 80 | 82 | 1.019 |
| 55859 | NM_018476 | **BEX1** | brain expressed X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55860 | NM_018477,XM_01 | **ACTR10** | actin related protein 10 | protein_coding | 56 | 53 | 57 | 54 | 0.949 |
| 55861 | NM_001048221,NM | **DBNDD2** | dysbindin domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.893 |
| 55862 | NM_001002030,NM | **ECHDC1** | ethylmalonyl-CoA decart | protein_coding | 83 | 70 | 84 | 71 | 0.844 |
| 55863 | NM_001193537,NM | **TMEM126B** | transmembrane protein 1 | protein_coding | 124 | 116 | 125 | 117 | 0.930 |
| 55867 | NM_001307985,NM | **SLC22A11** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55869 | NM_001166418,NM | **HDAC8** | histone deacetylase 8 | protein_coding | 25 | 24 | 26 | 25 | 0.946 |
| 55870 | NM_001366177,NM | **ASH1L** | ASH1 like histone lysine | protein_coding | 11 | 9 | 12 | 10 | 0.788 |
| 55871 | NM_001145355,NM | **CBWD1** | COBW domain containin | protein_coding | 65 | 62 | 66 | 63 | 0.951 |
| 55872 | NM_001278945,NM | **PBK** | PDZ binding kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55876 | NM_001042471,NM | **GSDMB** | gasdermin B | protein_coding | 5 | 6 | 6 | 7 | 1.056 |
| 55879 | NM_018558,XM_01 | **GABRQ** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55884 | NM_001278557,NM | **WSB2** | WD repeat and SOCS bo | protein_coding | 11 | 11 | 12 | 12 | 1.048 |
| 55885 | NM_001001395,NM | **LMO3** | LIM domain only 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55888 | NM_001288590,NM | **ZKSCAN7** | zinc finger with KRAB an | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55889 | NM_018652 | **GOLGA6B** | golgin A6 family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55890 | NM_001366261,NM | **GPRC5C** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55891 | NM_018655 | **LENEP** | lens epithelial protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55892 | NM_001185118,NM | **MYNN** | myoneurin | protein_coding | 19 | 19 | 20 | 20 | 0.989 |
| 55893 | NM_018660 | **ZNF395** | zinc finger protein 395 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55894 | NM_018661 | **DEFB103B** | defensin beta 103B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55897 | NM_018670,XR_00 | **MESP1** | mesoderm posterior bHL | protein_coding | 0 | 1 | 1 | 2 | 1.302 |
| 55898 | NM_001039675,NM | **UNC45A** | unc-45 myosin chaperon | protein_coding | 43 | 44 | 44 | 45 | 1.012 |
| 55900 | NM_001012320,NM | **ZNF302** | zinc finger protein 302 | protein_coding | 58 | 48 | 59 | 49 | 0.844 |
| 55901 | NM_018676,NM_19 | **THSD1** | thrombospondin type 1 d | protein_coding | 1 | 1 | 2 | 2 | 0.782 |
| 55902 | NM_001076552,NM | **ACSS2** | acyl-CoA synthetase sho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55904 | NM_018682,NM_18 | **KMT2E** | lysine methyltransferase | protein_coding | 44 | 37 | 45 | 38 | 0.838 |
| 55905 | NM_018683 | **RNF114** | ring finger protein 114 | protein_coding | 123 | 120 | 124 | 121 | 0.979 |
| 55906 | NM_001178032,NM | **ZC4H2** | zinc finger C4H2-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55907 | NM_018686,NR_13 | **CMAS** | cytidine monophosphate | protein_coding | 50 | 49 | 51 | 50 | 0.977 |
| 55908 | NM_018687 | **ANGPTL8** | angiopoietin like 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55909 | NM_001363046,NM | **BIN3** | bridging integrator 3 | protein_coding | 18 | 15 | 19 | 16 | 0.867 |
| 55911 | NM_018690 | **APOBR** | apolipoprotein B recepto | protein_coding | 50 | 53 | 51 | 54 | 1.063 |
| 55914 | NM_001006600,NM | **ERBIN** | erbb2 interacting protein | protein_coding | 39 | 33 | 40 | 34 | 0.866 |
| 55915 | NM_018697 | **LANCL2** | LanC like 2 | protein_coding | 23 | 24 | 24 | 25 | 1.011 |
| 55916 | NM_001242617,NM | **NXT2** | nuclear transport factor 2 | protein_coding | 20 | 20 | 21 | 21 | 0.979 |
| 55917 | NM_018704,XM_01 | **CTTNBP2NL** | CTTNBP2 N-terminal like | protein_coding | 3 | 3 | 4 | 4 | 0.960 |
| 55920 | NM_001136204,NM | **RCC2** | regulator of chromosome | protein_coding | 342 | 333 | 343 | 334 | 0.974 |
| 55922 | NM_017544,NR_16 | **NKRF** | NFKB repressing factor | protein_coding | 27 | 25 | 28 | 26 | 0.951 |
| 55924 | NM_019099,NM_19 | **INKA2** | inka box actin regulator 2 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 55929 | NM_001034023,NM | **DMAP1** | DNA methyltransferase 1 | protein_coding | 47 | 49 | 48 | 50 | 1.055 |
| 55930 | NM_018728,XM_01 | **MYO5C** | myosin VC | protein_coding | 3 | 3 | 4 | 4 | 1.046 |
| 55937 | NM_001256169,NM | **APOM** | apolipoprotein M | protein_coding | 7 | 8 | 8 | 9 | 1.050 |
| 55954 | NM_001003692,NM | **ZMAT5** | zinc finger matrin-type 5 | protein_coding | 29 | 31 | 30 | 32 | 1.066 |
| 55957 | NM_001369780,NM | **LIN37** | lin-37 DREAM MuvB core | protein_coding | 11 | 12 | 12 | 13 | 1.082 |
| 55958 | NM_018847 | **KLHL9** | kelch like family member | protein_coding | 19 | 16 | 20 | 17 | 0.857 |
| 55959 | NM_001161841,NM | **SULF2** | sulfatase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55964 | NM_001363845,NM | **SEPTIN3** | septin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55966 | NM_001042478,NM | **AJAP1** | adherens junctions asso | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55967 | NM_001258338,NM | **NDUFA12** | NADH:ubiquinone oxidor | protein_coding | 203 | 208 | 204 | 209 | 1.023 |
| 55968 | NM_001206736,NM | **NSFL1C** | NSFL1 cofactor | protein_coding | 53 | 54 | 54 | 55 | 1.008 |
| 55969 | NM_001199534,NM | **RAB5IF** | RAB5 interacting factor | protein_coding | 245 | 261 | 246 | 262 | 1.064 |
| 55970 | NM_018841,XM_01 | **GNG12** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55971 | NM_018842 | **BAIAP2L1** | BAR/IMD domain contair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55972 | NM_018843 | **SLC25A40** | solute carrier family 25 m | protein_coding | 22 | 18 | 23 | 19 | 0.836 |
| 55973 | NM_001008405,NM | **BCAP29** | B cell receptor associate | protein_coding | 26 | 19 | 27 | 20 | 0.740 |
| 55974 | NM_001122837,NM | **SLC50A1** | solute carrier family 50 m | protein_coding | 98 | 98 | 99 | 99 | 0.993 |
| 55975 | NM_001031710,NM | **KLHL7** | kelch like family member | protein_coding | 10 | 8 | 11 | 9 | 0.816 |
| 55997 | NM_001270420,NM | **CFC1** | cripto, FRL-1, cryptic fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55998 | NM_032946,NR_02 | **NXF5** | nuclear RNA export factc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 55999 | NR_002216 | **NXF4** | nuclear RNA export factc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 56000 | NM_022052 | **NXF3** | nuclear RNA export factc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56001 | NM_022053 | **NXF2** | nuclear RNA export factc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56005 | NM_019107,XM_01 | **MYDGF** | myeloid derived growth f | protein_coding | 208 | 205 | 209 | 206 | 0.988 |
| 56006 | NM_019108,XM_00 | **SMG9** | SMG9 nonsense mediate | protein_coding | 26 | 32 | 27 | 33 | 1.219 |
| 56033 | NM_021570 | **BARX1** | BARX homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56034 | NM_016205,NR_03 | **PDGFC** | platelet derived growth fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56052 | NM_001330504,NM | **ALG1** | ALG1 chitobiosyldiphosp | protein_coding | 40 | 44 | 41 | 45 | 1.094 |
| 56061 | NM_019116,XM_01 | **UBFD1** | ubiquitin family domain c | protein_coding | 63 | 59 | 64 | 60 | 0.937 |
| 56062 | NM_019117,NM_05 | **KLHL4** | kelch like family member | protein_coding | 9 | 9 | 10 | 10 | 0.949 |
| 56063 | NM_001366191,NM | **TMEM234** | transmembrane protein 2 | protein_coding | 2 | 3 | 3 | 4 | 1.080 |
| 56097 | NM_018929,NM_03 | **PCDHGC5** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56098 | NM_018928,NM_03 | **PCDHGC4** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56099 | NM_018927,NM_03 | **PCDHGB7** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 56100 | NM_018926,NM_03 | **PCDHGB6** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 56101 | NM_018925,NM_03 | **PCDHGB5** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 56102 | NM_018924,NM_03 | **PCDHGB3** | protocadherin gamma su | protein_coding | 1 | 1 | 2 | 2 | 0.975 |
| 56103 | NM_018923,NM_03 | **PCDHGB2** | protocadherin gamma su | protein_coding | 2 | 2 | 3 | 3 | 0.973 |
| 56104 | NM_018922,NM_03 | **PCDHGB1** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 56105 | NM_018914,NM_03 | **PCDHGA11** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 56106 | NM_018913,NM_03 | **PCDHGA10** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56107 | NM_018921,NM_03 | **PCDHGA9** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.937 |
| 56108 | NM_018920,NM_03 | **PCDHGA7** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.093 |
| 56109 | NM_018919,NM_03 | **PCDHGA6** | protocadherin gamma su | protein_coding | 1 | 1 | 2 | 2 | 0.825 |
| 56110 | NM_018918,NM_03 | **PCDHGA5** | protocadherin gamma su | protein_coding | 0 | 1 | 1 | 2 | 1.441 |
| 56111 | NM_018917,NM_03 | **PCDHGA4** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 56112 | NM_018916,NM_03 | **PCDHGA3** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 56113 | NM_018915,NM_03 | **PCDHGA2** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 56114 | NM_018912,NM_03 | **PCDHGA1** | protocadherin gamma su | protein_coding | 0 | 0 | 1 | 1 | 0.941 |
| 56119 | id-PCDHACT | **PCDHACT** | protocadherin alpha con | C_region | 0 | 0 | 1 | 1 | 1.000 |
| 56120 | NR_001297 | **PCDHGB8P** | protocadherin gamma su | transcribed_pseu | 0 | 0 | 1 | 1 | 1.039 |
| 56121 | NM_018935 | **PCDHB15** | protocadherin beta 15 | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 56122 | NM_018934 | **PCDHB14** | protocadherin beta 14 | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 56123 | NM_018933 | **PCDHB13** | protocadherin beta 13 | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 56124 | NM_018932 | **PCDHB12** | protocadherin beta 12 | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 56125 | NM_018931 | **PCDHB11** | protocadherin beta 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56126 | NM_018930 | **PCDHB10** | protocadherin beta 10 | protein_coding | 0 | 0 | 1 | 1 | 1.081 |
| 56127 | NM_019119 | **PCDHB9** | protocadherin beta 9 | protein_coding | 1 | 0 | 2 | 1 | 0.967 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 56128 | NM_019120 | **PCDHB8** | protocadherin beta 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56129 | NM_018940 | **PCDHB7** | protocadherin beta 7 | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 56130 | NM_001303145,NM | **PCDHB6** | protocadherin beta 6 | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 56131 | NM_018938 | **PCDHB4** | protocadherin beta 4 | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 56132 | NM_018937 | **PCDHB3** | protocadherin beta 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56133 | NM_018936 | **PCDHB2** | protocadherin beta 2 | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 56134 | NM_018899,NM_03 | **PCDHAC2** | protocadherin alpha sub | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56135 | NM_018898,NM_03 | **PCDHAC1** | protocadherin alpha sub | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56136 | NM_018904,NM_03 | **PCDHA13** | protocadherin alpha 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56137 | NM_018903,NM_03 | **PCDHA12** | protocadherin alpha 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56138 | NM_018902,NM_03 | **PCDHA11** | protocadherin alpha 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56139 | NM_018901,NM_03 | **PCDHA10** | protocadherin alpha 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56140 | NM_018911,NM_03 | **PCDHA8** | protocadherin alpha 8 | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 56141 | NM_018910,NM_03 | **PCDHA7** | protocadherin alpha 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56142 | NM_018909,NM_03 | **PCDHA6** | protocadherin alpha 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56143 | NM_018908,NM_03 | **PCDHA5** | protocadherin alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56144 | NM_018907,NM_03 | **PCDHA4** | protocadherin alpha 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56145 | NM_018906,NM_03 | **PCDHA3** | protocadherin alpha 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56146 | NM_018905,NM_03 | **PCDHA2** | protocadherin alpha 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56147 | NM_018900,NM_03 | **PCDHA1** | protocadherin alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56154 | NM_001350162,NR | **TEX15** | testis expressed 15, meic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56155 | NM_001201457,NM | **TEX14** | testis expressed 14, inter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56156 | NM_031273 | **TEX13B** | testis expressed 13B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56157 | NM_001291277,NM | **TEX13A** | testis expressed 13A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56158 | NM_031275 | **TEX12** | testis expressed 12 | protein_coding | 1 | 1 | 2 | 2 | 0.896 |
| 56159 | NM_001003811,NM | **TEX11** | testis expressed 11 | protein_coding | 1 | 1 | 2 | 2 | 1.039 |
| 56160 | NM_138704 | **NSMCE3** | NSE3 homolog, SMC5-S | protein_coding | 19 | 20 | 20 | 21 | 1.036 |
| 56163 | NM_001184993,NM | **RNF17** | ring finger protein 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56164 | NM_001260504,NM | **STK31** | serine/threonine kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56165 | NM_001365891,NM | **TDRD1** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 56169 | NM_031415,XM_01 | **GSDMC** | gasdermin C | protein_coding | 0 | 0 | 1 | 1 | 0.803 |
| 56171 | NM_018897,XM_01 | **DNAH7** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56172 | NM_054027,XM_01 | **ANKH** | ANKH inorganic pyropho | protein_coding | 5 | 4 | 6 | 5 | 0.847 |
| 56180 | NM_001306188,NM | **MOSPD1** | motile sperm domain cor | protein_coding | 15 | 13 | 16 | 14 | 0.891 |
| 56181 | NM_001099625,NM | **MTFR1L** | mitochondrial fission reg | protein_coding | 15 | 14 | 16 | 15 | 0.953 |
| 56203 | NM_001304418,NM | **LMOD3** | leiomodin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56204 | NM_001286495,NM | **FAM214A** | family with sequence sim | protein_coding | 11 | 9 | 12 | 10 | 0.865 |
| 56241 | NM_019601 | **SUSD2** | sushi domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 56242 | NM_001331133,NM | **ZNF253** | zinc finger protein 253 | protein_coding | 2 | 1 | 3 | 2 | 0.827 |
| 56243 | NM_001098500,NM | **KIAA1217** | KIAA1217 | protein_coding | 2 | 2 | 3 | 3 | 0.921 |
| 56244 | NM_001304561,XM | **BTNL2** | butyrophilin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.062 |
| 56245 | NM_001162495,NM | **C21orf62** | chromosome 21 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56246 | NM_001285394,NM | **MRAP** | melanocortin 2 receptor a | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 56252 | NM_019589,XM_00 | **YLPM1** | YLP motif containing 1 | protein_coding | 28 | 23 | 29 | 24 | 0.825 |
| 56253 | NM_001304782,NM | **CRTAM** | cytotoxic and regulatory | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 56254 | NM_019592,XM_01 | **RNF20** | ring finger protein 20 | protein_coding | 39 | 39 | 40 | 40 | 0.991 |
| 56255 | NM_021156 | **TMX4** | thioredoxin related transi | protein_coding | 26 | 27 | 27 | 28 | 1.057 |
| 56256 | NM_001354173,NM | **SERTAD4** | SERTA domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56257 | NM_001194990,NM | **MEPCE** | methylphosphate cappin | protein_coding | 87 | 100 | 88 | 101 | 1.142 |
| 56259 | NM_001281495,NM | **CTNNBL1** | catenin beta like 1 | protein_coding | 150 | 156 | 151 | 157 | 1.039 |
| 56260 | NR_161216,NR_16 | **C8orf44** | chromosome 8 open rea | lncRNA | 10 | 7 | 11 | 8 | 0.748 |
| 56261 | NM_019593,XM_00 | **GPCPD1** | glycerophosphocholine p | protein_coding | 15 | 16 | 16 | 17 | 1.111 |
| 56262 | NM_001127244,NM | **LRRC8A** | leucine rich repeat conta | protein_coding | 16 | 19 | 17 | 20 | 1.130 |
| 56265 | NM_001184699,NM | **CPXM1** | carboxypeptidase X, M14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56267 | NM_001008661,NM | **KYAT3** | kynurenine aminotransfe | protein_coding | 34 | 27 | 35 | 28 | 0.808 |
| 56269 | NM_019612,XM_00 | **IRGC** | immunity related GTPas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56270 | NM_019613,XM_00 | **WDR45B** | WD repeat domain 45B | protein_coding | 72 | 71 | 73 | 72 | 0.974 |
| 56271 | NM_001080425,NM | **BEX4** | brain expressed X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56286 | gene-DAD1P1 | **DAD1P1** | defender against cell dea | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 56287 | NM_019617 | **GKN1** | gastrokine 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56288 | NM_001184785,NM | **PARD3** | par-3 family cell polarity | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56300 | NM_001278568,NM | **IL36G** | interleukin 36 gamma | protein_coding | 0 | 0 | 1 | 1 | 0.870 |
| 56301 | NM_019849,XM_00 | **SLC7A10** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56302 | NM_019841 | **TRPV5** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56311 | NM_019644 | **ANKRD7** | ankyrin repeat domain 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56339 | NM_019852,XM_00 | **METTL3** | methyltransferase like 3 | protein_coding | 38 | 36 | 39 | 37 | 0.952 |
| 56341 | NM_001256536,NM | **PRMT8** | protein arginine methyltr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56342 | NM_001346139,NM | **PPAN** | peter pan homolog | protein_coding | 101 | 100 | 102 | 101 | 0.994 |
| 56344 | NM_019855,XM_01 | **CABP5** | calcium binding protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56413 | NM_001164692,NM | **LTB4R2** | leukotriene B4 receptor 2 | protein_coding | 5 | 4 | 6 | 5 | 0.866 |
| 56474 | NM_001144002,NM | **CTPS2** | CTP synthase 2 | protein_coding | 4 | 4 | 5 | 5 | 1.014 |
| 56475 | NM_019845 | **RPRM** | reprimo, TP53 dependen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56476 | gene-ABCB10P1 | **ABCB10P1** | ABCB10 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 56477 | NM_001301873,NM | **CCL28** | C-C motif chemokine liga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56478 | NM_001164501,NM | **EIF4ENIF1** | eukaryotic translation init | protein_coding | 12 | 13 | 13 | 14 | 1.047 |
| 56479 | NM_001160130,NM | **KCNQ5** | potassium voltage-gated | protein_coding | 23 | 20 | 24 | 21 | 0.866 |
| 56521 | NM_021800,NM_20 | **DNAJC12** | DnaJ heat shock protein | protein_coding | 3 | 3 | 4 | 4 | 0.873 |
| 56547 | NM_021801,XM_01 | **MMP26** | matrix metallopeptidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56548 | NM_019886 | **CHST7** | carbohydrate sulfotransfe | protein_coding | 0 | 1 | 1 | 2 | 1.052 |
| 56603 | NM_001277742,NM | **CYP26B1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56604 | gene-TUBB7P | **TUBB7P** | tubulin beta 7 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 56605 | NM_019891,XM_01 | **ERO1B** | endoplasmic reticulum o | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 56606 | NM_001001290,NM | **SLC2A9** | solute carrier family 2 me | protein_coding | 2 | 2 | 3 | 3 | 0.973 |
| 56616 | NM_001278302,NM | **DIABLO** | diablo IAP-binding mitoc | protein_coding | 81 | 87 | 82 | 88 | 1.072 |
| 56623 | NM_001318502,NM | **INPP5E** | inositol polyphosphate-5 | protein_coding | 6 | 7 | 7 | 8 | 1.120 |
| 56624 | NM_001143974,NM | **ASAH2** | N-acylsphingosine amidc | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 56647 | NM_016567,NM_07 | **BCCIP** | BRCA2 and CDKN1A int | protein_coding | 206 | 197 | 207 | 198 | 0.957 |
| 56648 | NM_020390 | **EIF5A2** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56649 | NM_001083947,NM | **TMPRSS4** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56650 | NM_001040181,NM | **CLDND1** | claudin domain containir | protein_coding | 260 | 231 | 261 | 232 | 0.889 |
| 56651 | NR_023925,NR_02 | **LINC00470** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 56652 | NM_001163812,NM | **TWNK** | twinkle mtDNA helicase | protein_coding | 39 | 41 | 40 | 42 | 1.071 |
| 56654 | NM_015392 | **NPDC1** | neural proliferation, diffe | protein_coding | 12 | 15 | 13 | 16 | 1.267 |
| 56655 | NM_019896 | **POLE4** | DNA polymerase epsilon | protein_coding | 46 | 49 | 47 | 50 | 1.062 |
| 56656 | NM_019897 | **OR2S2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56658 | NM_001369521,NM | **TRIM39** | tripartite motif containing | protein_coding | 14 | 13 | 15 | 14 | 0.941 |
| 56659 | NM_022054 | **KCNK13** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56660 | NM_022055 | **KCNK12** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56662 | NR_026705 | **VTRNA1-3** | vault RNA 1-3 | vault_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 56663 | NR_026704 | **VTRNA1-2** | vault RNA 1-2 | vault_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 56664 | NR_026703 | **VTRNA1-1** | vault RNA 1-1 | vault_RNA | 0 | 0 | 1 | 1 | 0.980 |
| 56666 | NM_001160300,NM | **PANX2** | pannexin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56667 | NM_033049 | **MUC13** | mucin 13, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56670 | NM_033050 | **SUCNR1** | succinate receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 56672 | NM_001206646,NM | **AKIP1** | A-kinase interacting prot | protein_coding | 18 | 17 | 19 | 18 | 0.968 |
| 56673 | NM_020643,XM_01 | **C11orf16** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56674 | NM_001286094,NM | **TMEM9B** | TMEM9 domain family m | protein_coding | 57 | 55 | 58 | 56 | 0.970 |
| 56675 | NM_020645,XM_02 | **NRIP3** | nuclear receptor interacti | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 56676 | NM_020646 | **ASCL3** | achaete-scute family bHI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56677 | gene-FABP3P2 | **FABP3P2** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 56681 | NM_001142648,NM | **SAR1A** | secretion associated Ras | protein_coding | 50 | 46 | 51 | 47 | 0.926 |
| 56683 | NM_001350334,NM | **CFAP298** | cilia and flagella associat | protein_coding | 58 | 50 | 59 | 51 | 0.858 |
| 56704 | NM_001317830,NM | **JPH1** | junctophilin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56729 | NM_001193374,NM | **RETN** | resistin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56731 | NM_020062 | **SLC2A4RG** | SLC2A4 regulator | protein_coding | 1 | 2 | 2 | 3 | 1.048 |
| 56751 | NM_020064 | **BARHL1** | BarH like homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56776 | NM_001305424,NM | **FMN2** | formin 2 | protein_coding | 18 | 14 | 19 | 15 | 0.751 |
| 56829 | NM_001363491,NM | **ZC3HAV1** | zinc finger CCCH-type co | protein_coding | 71 | 65 | 72 | 66 | 0.925 |
| 56832 | NM_020124 | **IFNK** | interferon kappa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56833 | NM_001330741,NM | **SLAMF8** | SLAM family member 8 | protein_coding | 4 | 5 | 5 | 6 | 1.190 |
| 56834 | NM_001170880,NM | **GPR137** | G protein-coupled recep | protein_coding | 25 | 26 | 26 | 27 | 1.023 |
| 56848 | NM_001204158,NM | **SPHK2** | sphingosine kinase 2 | protein_coding | 34 | 40 | 35 | 41 | 1.184 |
| 56849 | NM_001348258,NM | **TCEAL7** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56850 | NM_020137 | **GRIPAP1** | GRIP1 associated protei | protein_coding | 29 | 34 | 30 | 35 | 1.163 |
| 56851 | NM_020154 | **EMC7** | ER membrane protein co | protein_coding | 165 | 168 | 166 | 169 | 1.017 |
| 56852 | NM_020165,XM_01 | **RAD18** | RAD18 E3 ubiquitin prot | protein_coding | 20 | 18 | 21 | 19 | 0.923 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 56853 | NM_001025087,NM | **CELF4** | CUGBP Elav-like family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56882 | NM_001038707,NM | **CDC42SE1** | CDC42 small effector 1 | protein_coding | 141 | 140 | 142 | 141 | 0.996 |
| 56884 | NM_001128427,NM | **FSTL5** | follistatin like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56886 | NM_020120,NR_02 | **UGGT1** | UDP-glucose glycoprotei | protein_coding | 43 | 38 | 44 | 39 | 0.904 |
| 56888 | NM_020122,XM_00 | **KCMF1** | potassium channel modu | protein_coding | 27 | 25 | 28 | 26 | 0.926 |
| 56889 | NM_020123,XM_01 | **TM9SF3** | transmembrane 9 superf | protein_coding | 96 | 78 | 97 | 79 | 0.811 |
| 56890 | NM_001205028,NM | **MDM1** | Mdm1 nuclear protein | protein_coding | 17 | 13 | 18 | 14 | 0.780 |
| 56891 | NM_020129,NM_20 | **LGALS14** | galectin 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56892 | NM_020130 | **TCIM** | transcriptional and immu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56893 | NM_001304342,NM | **UBQLN4** | ubiquilin 4 | protein_coding | 55 | 53 | 56 | 54 | 0.950 |
| 56894 | NM_001037553,NM | **AGPAT3** | 1-acylglycerol-3-phospha | protein_coding | 42 | 38 | 43 | 39 | 0.912 |
| 56895 | NM_020133,XM_00 | **AGPAT4** | 1-acylglycerol-3-phospha | protein_coding | 1 | 1 | 2 | 2 | 0.936 |
| 56896 | NM_001253723,NM | **DPYSL5** | dihydropyrimidinase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56897 | NM_020135,NM_13 | **WRNIP1** | WRN helicase interacting | protein_coding | 56 | 58 | 57 | 59 | 1.032 |
| 56898 | NM_020139,XM_00 | **BDH2** | 3-hydroxybutyrate dehyd | protein_coding | 7 | 9 | 8 | 10 | 1.190 |
| 56899 | NM_001204065,NM | **ANKS1B** | ankyrin repeat and sterile | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 56900 | NM_001322248,NM | **TMEM167B** | transmembrane protein 1 | protein_coding | 48 | 45 | 49 | 46 | 0.933 |
| 56901 | NM_020142 | **NDUFA4L2** | NDUFA4 mitochondrial c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56902 | NM_001329916,NM | **PNO1** | partner of NOB1 homolo | protein_coding | 97 | 102 | 98 | 103 | 1.048 |
| 56903 | NM_020144 | **PAPOLB** | poly(A) polymerase beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56904 | NM_001287045,NM | **SH3GLB2** | SH3 domain containing ( | protein_coding | 25 | 30 | 26 | 31 | 1.176 |
| 56905 | NM_015492 | **C15orf39** | chromosome 15 open rea | protein_coding | 94 | 100 | 95 | 101 | 1.064 |
| 56906 | NM_020147 | **THAP10** | THAP domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56907 | NM_001128626,NM | **SPIRE1** | spire type actin nucleatic | protein_coding | 1 | 1 | 2 | 2 | 0.871 |
| 56910 | NM_020151,XM_01 | **STARD7** | StAR related lipid transfe | protein_coding | 286 | 270 | 287 | 271 | 0.944 |
| 56911 | NM_001286617,NM | **MAP3K7CL** | MAP3K7 C-terminal like | protein_coding | 3 | 3 | 4 | 4 | 0.791 |
| 56912 | NM_001168618,NM | **IFT46** | intraflagellar transport 46 | protein_coding | 31 | 36 | 32 | 37 | 1.155 |
| 56913 | NM_020156,XM_01 | **C1GALT1** | core 1 synthase, glycopr | protein_coding | 20 | 17 | 21 | 18 | 0.848 |
| 56914 | NM_020157,XM_01 | **OTOR** | otoraplin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56915 | NM_020158 | **EXOSC5** | exosome component 5 | protein_coding | 184 | 194 | 185 | 195 | 1.053 |
| 56916 | NM_001128429,NM | **SMARCAD1** | SWI/SNF-related, matrix- | protein_coding | 12 | 9 | 13 | 10 | 0.800 |
| 56917 | NM_001009813,NM | **MEIS3** | Meis homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56918 | NM_001162483,NM | **C2orf83** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56919 | NM_001199699,NM | **DHX33** | DEAH-box helicase 33 | protein_coding | 38 | 36 | 39 | 37 | 0.952 |
| 56920 | NM_020163,XM_02 | **SEMA3G** | semaphorin 3G | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 56922 | NM_001293273,NM | **MCCC1** | methylcrotonoyl-CoA car | protein_coding | 32 | 32 | 33 | 33 | 0.988 |
| 56923 | NM_020167,XM_01 | **NMUR2** | neuromedin U receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56924 | NM_001276717,NM | **PAK6** | p21 (RAC1) activated kin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56925 | NM_020169,XM_01 | **LXN** | latexin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56926 | NM_001321463,NM | **NCLN** | nicalin | protein_coding | 81 | 80 | 82 | 81 | 0.989 |
| 56927 | NM_001080452,NM | **GPR108** | G protein-coupled recep | protein_coding | 21 | 23 | 22 | 24 | 1.076 |
| 56928 | NM_001077238,NM | **SPPL2B** | signal peptide peptidase | protein_coding | 16 | 16 | 17 | 17 | 1.003 |
| 56929 | NM_020177,XM_00 | **FEM1C** | fem-1 homolog C | protein_coding | 11 | 10 | 12 | 11 | 0.913 |
| 56931 | NM_001161619,NM | **DUS3L** | dihydrouridine synthase | protein_coding | 53 | 59 | 54 | 60 | 1.112 |
| 56934 | NM_001082533,NM | **CA10** | carbonic anhydrase 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56935 | NM_020179,XM_01 | **SMCO4** | single-pass membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56936 | NM_001271507 | **CCDC177** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56937 | NM_001255976,NM | **PMEPA1** | prostate transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56938 | NM_001248002,NM | **ARNTL2** | aryl hydrocarbon receptc | protein_coding | 40 | 33 | 41 | 34 | 0.839 |
| 56940 | NM_001286555,NM | **DUSP22** | dual specificity phosphat | protein_coding | 23 | 20 | 24 | 21 | 0.891 |
| 56941 | NM_001006109,NM | **HMCES** | 5-hydroxymethylcytosine | protein_coding | 29 | 27 | 30 | 28 | 0.939 |
| 56942 | NM_001351967,NM | **CMC2** | C-X9-C motif containing | protein_coding | 25 | 14 | 26 | 15 | 0.593 |
| 56943 | NM_001193557,NM | **ENY2** | ENY2 transcription and e | protein_coding | 65 | 66 | 66 | 67 | 1.012 |
| 56944 | NM_001286352,NM | **OLFML3** | olfactomedin like 3 | protein_coding | 0 | 1 | 1 | 2 | 1.075 |
| 56945 | NM_001363857,NM | **MRPS22** | mitochondrial ribosomal | protein_coding | 119 | 105 | 120 | 106 | 0.887 |
| 56946 | NM_001300942,NM | **EMSY** | EMSY transcriptional rep | protein_coding | 18 | 15 | 19 | 16 | 0.850 |
| 56947 | NM_001277061,NM | **MFF** | mitochondrial fission fact | protein_coding | 58 | 55 | 59 | 56 | 0.946 |
| 56948 | NM_001290292,NM | **SDR39U1** | short chain dehydrogena | protein_coding | 17 | 18 | 18 | 19 | 1.041 |
| 56949 | NM_020196 | **XAB2** | XPA binding protein 2 | protein_coding | 75 | 77 | 76 | 78 | 1.034 |
| 56950 | NM_020197,XR_42 | **SMYD2** | SET and MYND domain | protein_coding | 45 | 39 | 46 | 40 | 0.880 |
| 56951 | NM_020199 | **C5orf15** | chromosome 5 open rea | protein_coding | 88 | 79 | 89 | 80 | 0.900 |
| 56952 | NM_001282786,NM | **PRTFDC1** | phosphoribosyl transfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56953 | NM_020201,XM_00 | **NT5M** | 5',3'-nucleotidase, mitoch | protein_coding | 0 | 0 | 1 | 1 | 0.907 |
| 56954 | NM_020202 | **NIT2** | nitrilase family member 2 | protein_coding | 10 | 10 | 11 | 11 | 1.002 |
| 56955 | NM_001184694,NM | **MEPE** | matrix extracellular phos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56956 | NM_001014434,NM | **LHX9** | LIM homeobox 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56957 | NM_020205,XM_01 | **OTUD7B** | OTU deubiquitinase 7B | protein_coding | 13 | 11 | 14 | 12 | 0.848 |
| 56961 | NM_001372011,NM | **SHD** | Src homology 2 domain ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56963 | NM_001166283,NM | **RGMA** | repulsive guidance mole | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56964 | NM_001284395,NM | **WDR93** | WD repeat domain 93 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56965 | NM_001323515,NM | **PARP6** | poly(ADP-ribose) polyme | protein_coding | 59 | 58 | 60 | 59 | 0.980 |
| 56967 | NM_001252507,NM | **C14orf132** | chromosome 14 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56969 | NR_002229 | **RPL23AP32** | ribosomal protein L23a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 56970 | NM_001382308,NM | **ATXN7L3** | ataxin 7 like 3 | protein_coding | 71 | 67 | 72 | 68 | 0.950 |
| 56971 | NM_001127893,NM | **CEACAM19** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56975 | NM_020223,XM_01 | **FAM20C** | FAM20C golgi associatec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56977 | NM_020225,NR_13 | **STOX2** | storkhead box 2 | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 56978 | NM_001099403,NM | **PRDM8** | PR/SET domain 8 | protein_coding | 47 | 48 | 48 | 49 | 1.023 |
| 56979 | NM_001376900,NM | **PRDM9** | PR/SET domain 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 56980 | NM_001367890,NM | **PRDM10** | PR/SET domain 10 | protein_coding | 10 | 7 | 11 | 8 | 0.766 |
| 56981 | NM_001256695,NM | **PRDM11** | PR/SET domain 11 | protein_coding | 2 | 1 | 3 | 2 | 0.793 |
| 56983 | NM_152305,NR_02 | **POGLUT1** | protein O-glucosyltransfe | protein_coding | 24 | 24 | 25 | 25 | 1.015 |
| 56984 | NM_020232,NM_14 | **PSMG2** | proteasome assembly ch | protein_coding | 71 | 76 | 72 | 77 | 1.057 |
| 56985 | NM_020233 | **ADPRM** | ADP-ribose/CDP-alcohol | protein_coding | 2 | 2 | 3 | 3 | 0.992 |
| 56986 | NM_001144955,NM | **DTWD1** | DTW domain containing | protein_coding | 9 | 11 | 10 | 12 | 1.151 |
| 56987 | NM_001142568,NM | **BBX** | BBX high mobility group | protein_coding | 20 | 16 | 21 | 17 | 0.787 |
| 56990 | NM_001038702,NM | **CDC42SE2** | CDC42 small effector 2 | protein_coding | 79 | 70 | 80 | 71 | 0.897 |
| 56992 | NM_020242,XM_00 | **KIF15** | kinesin family member 15 | protein_coding | 34 | 28 | 35 | 29 | 0.837 |
| 56993 | NM_020243 | **TOMM22** | translocase of outer mito | protein_coding | 168 | 181 | 169 | 182 | 1.076 |
| 56994 | NM_020244,XM_01 | **CHPT1** | choline phosphotransfera | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 56995 | NM_001007466,NM | **TULP4** | TUB like protein 4 | protein_coding | 4 | 3 | 5 | 4 | 0.935 |
| 56996 | NM_001267812,NM | **SLC12A9** | solute carrier family 12 m | protein_coding | 18 | 18 | 19 | 19 | 0.979 |
| 56997 | NM_020247,XM_00 | **COQ8A** | coenzyme Q8A | protein_coding | 21 | 22 | 22 | 23 | 1.036 |
| 56998 | NM_001012329,NM | **CTNNBIP1** | catenin beta interacting p | protein_coding | 5 | 7 | 6 | 8 | 1.240 |
| 56999 | NM_001318781,NM | **ADAMTS9** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57000 | NR_103560 | **GSN-AS1** | GSN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 57001 | NM_020186 | **SDHAF3** | succinate dehydrogenas | protein_coding | 81 | 77 | 82 | 78 | 0.945 |
| 57002 | NM_001282446,NM | **YAE1** | YAE1 maturation factor c | protein_coding | 11 | 12 | 12 | 13 | 1.087 |
| 57003 | NM_020198,XM_00 | **CCDC47** | coiled-coil domain contai | protein_coding | 138 | 122 | 139 | 123 | 0.882 |
| 57005 | gene-UNGP2 | **UNGP2** | uracil-DNA glycosylase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 57007 | NM_020311,XM_00 | **ACKR3** | atypical chemokine rece | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 57008 | gene-RLFP1 | **RLFP1** | RLF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 57010 | NM_001300895,NM | **CABP4** | calcium binding protein 4 | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 57016 | NM_020299,XM_01 | **AKR1B10** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57017 | NM_020312 | **COQ9** | coenzyme Q9 | protein_coding | 50 | 54 | 51 | 55 | 1.085 |
| 57018 | NM_001308185,NM | **CCNL1** | cyclin L1 | protein_coding | 49 | 48 | 50 | 49 | 0.967 |
| 57019 | NM_001308347,NM | **CIAPIN1** | cytokine induced apopto | protein_coding | 67 | 70 | 68 | 71 | 1.047 |
| 57020 | NM_001300743,NM | **VPS35L** | VPS35 endosomal protei | protein_coding | 10 | 11 | 11 | 12 | 1.100 |
| 57026 | NM_020315 | **PDXP** | pyridoxal phosphatase | protein_coding | 82 | 87 | 83 | 88 | 1.061 |
| 57030 | NM_020309 | **SLC17A7** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.061 |
| 57035 | NM_001321772,NM | **RSRP1** | arginine and serine rich p | protein_coding | 81 | 85 | 82 | 86 | 1.042 |
| 57037 | NM_020319,XM_01 | **ANKMY2** | ankyrin repeat and MYN | protein_coding | 8 | 6 | 9 | 7 | 0.834 |
| 57038 | NM_001318785,NM | **RARS2** | arginyl-tRNA synthetase | protein_coding | 19 | 18 | 20 | 19 | 0.958 |
| 57045 | NM_020648 | **TWSG1** | twisted gastrulation BMP | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57047 | NM_001199978,NM | **PLSCR2** | phospholipid scramblase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57048 | NM_001201576,NM | **PLSCR3** | phospholipid scramblase | protein_coding | 2 | 3 | 3 | 4 | 1.484 |
| 57050 | NM_020368 | **UTP3** | UTP3 small subunit proc | protein_coding | 91 | 86 | 92 | 87 | 0.949 |
| 57053 | NM_001303034,NM | **CHRNA10** | cholinergic receptor nico | protein_coding | 0 | 1 | 1 | 2 | 1.150 |
| 57054 | NM_020364 | **DAZ3** | deleted in azoospermia 3 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 57055 | NM_001005785,NM | **DAZ2** | deleted in azoospermia 2 | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 57057 | NM_001077653,NM | **TBX20** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57060 | NM_001174100,NM | **PCBP4** | poly(rC) binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57061 | NR_002768 | **HYMAI** | hydatidiform mole associ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 57062 | NM_020414 | **DDX24** | DEAD-box helicase 24 | protein_coding | 52 | 47 | 53 | 48 | 0.905 |
| 57082 | NM_144508,NM_17 | **KNL1** | kinetochore scaffold 1 | protein_coding | 48 | 40 | 49 | 41 | 0.839 |
| 57084 | NM_020346 | **SLC17A6** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 57085 | NM_001040194,NM | **AGTRAP** | angiotensin II receptor as | protein_coding | 5 | 5 | 6 | 6 | 0.957 |
| 57088 | NM_001128304,NM | **PLSCR4** | phospholipid scramblase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57089 | NM_001349962,NM | **ENTPD7** | ectonucleoside triphosph | protein_coding | 7 | 6 | 8 | 7 | 0.914 |
| 57091 | NM_001164114,NM | **CASS4** | Cas scaffold protein fami | protein_coding | 0 | 0 | 1 | 1 | 1.048 |
| 57092 | NM_001320395,NM | **PCNP** | PEST proteolytic signal c | protein_coding | 210 | 188 | 211 | 189 | 0.894 |
| 57093 | NM_020358,XM_01 | **TRIM49** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57094 | NM_020361,XM_01 | **CPA6** | carboxypeptidase A6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57095 | NM_020362,XM_01 | **PITHD1** | PITH domain containing | protein_coding | 131 | 132 | 132 | 133 | 1.008 |
| 57096 | NM_001377523,NM | **RPGRIP1** | RPGR interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57097 | NM_001286521,NM | **PARP11** | poly(ADP-ribose) polyme | protein_coding | 6 | 6 | 7 | 7 | 0.999 |
| 57099 | NM_020371,XM_01 | **AVEN** | apoptosis and caspase a | protein_coding | 37 | 29 | 38 | 30 | 0.784 |
| 57101 | NM_001278596,NM | **ANO2** | anoctamin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57102 | NM_001304811,NM | **C12orf4** | chromosome 12 open rea | protein_coding | 14 | 14 | 15 | 15 | 1.019 |
| 57103 | NM_020375 | **TIGAR** | TP53 induced glycolysis | protein_coding | 6 | 5 | 7 | 6 | 0.866 |
| 57104 | NM_020376,XM_00 | **PNPLA2** | patatin like phospholipas | protein_coding | 39 | 43 | 40 | 44 | 1.103 |
| 57105 | NM_001308465,NM | **CYSLTR2** | cysteinyl leukotriene rec | protein_coding | 2 | 1 | 3 | 2 | 0.787 |
| 57106 | NM_020378 | **NAT14** | N-acetyltransferase 14 (p | protein_coding | 15 | 18 | 16 | 19 | 1.244 |
| 57107 | NM_020381,XM_01 | **PDSS2** | decaprenyl diphosphate | protein_coding | 15 | 13 | 16 | 14 | 0.884 |
| 57108 | gene-KMT5AP1 | **KMT5AP1** | KMT5A pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.197 |
| 57109 | NM_001279349,NM | **REXO4** | REX4 homolog, 3'-5' exo | protein_coding | 71 | 71 | 72 | 72 | 1.005 |
| 57110 | NM_001366112,NM | **PLAAT1** | phospholipase A and acy | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 57111 | NM_020387,NR_13 | **RAB25** | RAB25, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.091 |
| 57113 | NM_001167576,NM | **TRPC7** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57115 | NM_020393,XM_01 | **PGLYRP4** | peptidoglycan recognitio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57116 | NM_001204221,NM | **ZNF695** | zinc finger protein 695 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57117 | NM_001142471,NM | **INTS12** | integrator complex subu | protein_coding | 25 | 24 | 26 | 25 | 0.941 |
| 57118 | NM_001351032,NM | **CAMK1D** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 57119 | NM_001302861,NM | **EPPIN** | epididymal peptidase inh | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57120 | NM_001017408,NM | **GOPC** | golgi associated PDZ an | protein_coding | 40 | 37 | 41 | 38 | 0.925 |
| 57121 | NM_001142961,NM | **LPAR5** | lysophosphatidic acid re | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 57122 | NM_001330192,NM | **NUP107** | nucleoporin 107 | protein_coding | 56 | 49 | 57 | 50 | 0.872 |
| 57124 | NM_020404 | **CD248** | CD248 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57125 | NM_020405 | **PLXDC1** | plexin domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.121 |
| 57126 | NM_020406,XM_01 | **CD177** | CD177 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57127 | NM_001256395,NM | **RHBG** | Rh family B glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57128 | NM_001164840,NM | **LYRM4** | LYR motif containing 4 | protein_coding | 60 | 59 | 61 | 60 | 0.982 |
| 57129 | NM_020409,NM_17 | **MRPL47** | mitochondrial ribosomal | protein_coding | 135 | 127 | 136 | 128 | 0.943 |
| 57130 | NM_020410 | **ATP13A1** | ATPase 13A1 | protein_coding | 32 | 34 | 33 | 35 | 1.038 |
| 57132 | NM_020412 | **CHMP1B** | charged multivesicular b | protein_coding | 15 | 14 | 16 | 15 | 0.966 |
| 57134 | NM_001289010,NM | **MAN1C1** | mannosidase alpha class | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57135 | NM_001005375,NM | **DAZ4** | deleted in azoospermia 4 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 57136 | NM_020531,XM_00 | **APMAP** | adipocyte plasma membr | protein_coding | 185 | 183 | 186 | 184 | 0.988 |
| 57139 | NM_001035223,NM | **RGL3** | ral guanine nucleotide di | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57140 | NM_018226,XM_00 | **RNPEPL1** | arginyl aminopeptidase l | protein_coding | 38 | 39 | 39 | 40 | 1.031 |
| 57142 | NM_001321859,NM | **RTN4** | reticulon 4 | protein_coding | 122 | 106 | 123 | 107 | 0.867 |
| 57143 | NM_001142545,NM | **ADCK1** | aarF domain containing k | protein_coding | 3 | 3 | 4 | 4 | 1.075 |
| 57144 | NM_020341,NM_17 | **PAK5** | p21 (RAC1) activated kin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57146 | NM_001301769,NM | **TMEM159** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57147 | NM_020423,NM_18 | **SCYL3** | SCY1 like pseudokinase | protein_coding | 7 | 6 | 8 | 7 | 0.900 |
| 57148 | NM_001282917,NM | **RALGAPB** | Ral GTPase activating pr | protein_coding | 37 | 31 | 38 | 32 | 0.839 |
| 57149 | NM_001128301,NM | **LYRM1** | LYR motif containing 1 | protein_coding | 40 | 46 | 41 | 47 | 1.156 |
| 57150 | NM_001042493,NM | **SMIM8** | small integral membrane | protein_coding | 13 | 12 | 14 | 13 | 0.936 |
| 57151 | NM_001199951,NM | **LYZL6** | lysozyme like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57152 | NM_020427 | **SLURP1** | secreted LY6/PLAUR dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57153 | NM_001145056,NM | **SLC44A2** | solute carrier family 44 m | protein_coding | 24 | 25 | 25 | 26 | 1.009 |
| 57154 | NM_001199847,NM | **SMURF1** | SMAD specific E3 ubiqui | protein_coding | 16 | 12 | 17 | 13 | 0.772 |
| 57156 | NM_020431 | **TMEM63C** | transmembrane protein 6 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 57157 | NM_001127357,NM | **PHTF2** | putative homeodomain tr | protein_coding | 37 | 28 | 38 | 29 | 0.772 |
| 57158 | NM_020433,NM_17 | **JPH2** | junctophilin 2 | protein_coding | 1 | 0 | 2 | 1 | 0.699 |
| 57159 | NM_032546,NM_18 | **TRIM54** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57161 | NM_021255,XM_00 | **PELI2** | pellino E3 ubiquitin prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57162 | NM_020651,XM_00 | **PELI1** | pellino E3 ubiquitin prote | protein_coding | 11 | 10 | 12 | 11 | 0.928 |
| 57165 | NM_020435 | **GJC2** | gap junction protein gam | protein_coding | 0 | 0 | 1 | 1 | 1.240 |
| 57167 | NM_001318031,NM | **SALL4** | spalt like transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57168 | NM_020437 | **ASPHD2** | aspartate beta-hydroxyla | protein_coding | 5 | 4 | 6 | 5 | 0.853 |
| 57169 | NM_021035 | **ZNFX1** | zinc finger NFX1-type co | protein_coding | 43 | 38 | 44 | 39 | 0.895 |
| 57171 | NM_001135917,NM | **DOLPP1** | dolichyldiphosphatase 1 | protein_coding | 31 | 28 | 32 | 29 | 0.898 |
| 57172 | NM_020439,XM_01 | **CAMK1G** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57175 | NM_001018070,NM | **CORO1B** | coronin 1B | protein_coding | 8 | 12 | 9 | 13 | 1.380 |
| 57176 | NM_001167733,NM | **VARS2** | valyl-tRNA synthetase 2, | protein_coding | 19 | 20 | 20 | 21 | 1.062 |
| 57178 | NM_020338,XM_00 | **ZMIZ1** | zinc finger MIZ-type cont | protein_coding | 83 | 73 | 84 | 74 | 0.880 |
| 57179 | NM_001079684,NM | **KIAA1191** | KIAA1191 | protein_coding | 47 | 41 | 48 | 42 | 0.876 |
| 57180 | NM_001040135,NM | **ACTR3B** | actin related protein 3B | protein_coding | 4 | 4 | 5 | 5 | 0.915 |
| 57181 | NM_001127257,NM | **SLC39A10** | solute carrier family 39 m | protein_coding | 13 | 9 | 14 | 10 | 0.725 |
| 57182 | NM_001167882,NM | **ANKRD50** | ankyrin repeat domain 50 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57184 | NM_001321920,NM | **FAM219B** | family with sequence sim | protein_coding | 14 | 11 | 15 | 12 | 0.859 |
| 57185 | NM_001322854,NM | **NIPAL3** | NIPA like domain contain | protein_coding | 28 | 27 | 29 | 28 | 0.962 |
| 57186 | NM_020343,XM_00 | **RALGAPA2** | Ral GTPase activating pr | protein_coding | 18 | 13 | 19 | 14 | 0.744 |
| 57187 | NM_001081550,XM | **THOC2** | THO complex 2 | protein_coding | 60 | 47 | 61 | 48 | 0.793 |
| 57188 | NM_001301110,NM | **ADAMTSL3** | ADAMTS like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57189 | NM_001080392,XM | **DENND11** | DENN domain containing | protein_coding | 1 | 1 | 2 | 2 | 1.109 |
| 57190 | NM_020451,NM_20 | **SELENON** | selenoprotein N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57191 | NM_020633 | **VN1R1** | vomeronasal 1 receptor 1 | protein_coding | 1 | 0 | 2 | 1 | 0.708 |
| 57192 | NM_020533 | **MCOLN1** | mucolipin 1 | protein_coding | 12 | 15 | 13 | 16 | 1.248 |
| 57194 | NM_024490,XM_00 | **ATP10A** | ATPase phospholipid tra | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 57198 | NM_001005855,NM | **ATP8B2** | ATPase phospholipid tra | protein_coding | 37 | 37 | 38 | 38 | 0.995 |
| 57205 | NM_020453,XM_00 | **ATP10D** | ATPase phospholipid tra | protein_coding | 12 | 9 | 13 | 10 | 0.736 |
| 57209 | NM_001267597,NM | **ZNF248** | zinc finger protein 248 | protein_coding | 3 | 2 | 4 | 3 | 0.791 |
| 57210 | NM_001080431,NM | **SLC45A4** | solute carrier family 45 m | protein_coding | 2 | 2 | 3 | 3 | 0.950 |
| 57211 | NM_001032394,NM | **ADGRG6** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 57212 | NR_033708,NR_03 | **TP73-AS1** | TP73 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 57213 | NM_001127482,NM | **SPRYD7** | SPRY domain containing | protein_coding | 27 | 25 | 28 | 26 | 0.936 |
| 57214 | NM_001293298,NM | **CEMIP** | cell migration inducing h | protein_coding | 0 | 0 | 1 | 1 | 0.958 |
| 57215 | NM_020457 | **THAP11** | THAP domain containing | protein_coding | 77 | 78 | 78 | 79 | 1.023 |
| 57216 | NM_020335,XM_00 | **VANGL2** | VANGL planar cell polari | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57217 | NM_001288951,NM | **TTC7A** | tetratricopeptide repeat c | protein_coding | 20 | 20 | 21 | 21 | 1.007 |
| 57221 | NM_020340,XR_00 | **ARFGEF3** | ARFGEF family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57222 | NM_001031711,XM | **ERGIC1** | endoplasmic reticulum-g | protein_coding | 49 | 44 | 50 | 45 | 0.904 |
| 57223 | NM_001122964,NM | **PPP4R3B** | protein phosphatase 4 re | protein_coding | 66 | 56 | 67 | 57 | 0.860 |
| 57224 | NM_001144060,NM | **NHSL1** | NHS like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57226 | NM_020466,NR_02 | **LYRM2** | LYR motif containing 2 | protein_coding | 23 | 20 | 24 | 21 | 0.884 |
| 57228 | NM_001031628,NM | **SMAGP** | small cell adhesion glyc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57231 | NM_001297614,NM | **SNX14** | sorting nexin 14 | protein_coding | 32 | 31 | 33 | 32 | 0.954 |
| 57232 | NM_001037735,NM | **ZNF630** | zinc finger protein 630 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57234 | NR_111950,NR_11 | **LINC00869** | long intergenic non-prote | lncRNA | 19 | 18 | 20 | 19 | 0.962 |
| 57282 | NM_001178015,NM | **SLC4A10** | solute carrier family 4 me | protein_coding | 96 | 94 | 97 | 95 | 0.981 |
| 57289 | id-IGHV7-4-1 | **IGHV7-4-1** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 57291 | NR_024031,NR_14 | **DANCR** | differentiation antagonizi | lncRNA | 159 | 165 | 160 | 166 | 1.040 |
| 57325 | NM_020536,NR_02 | **KAT14** | lysine acetyltransferase 1 | protein_coding | 21 | 22 | 22 | 23 | 1.007 |
| 57326 | NM_001317734,NM | **PBXIP1** | PBX homeobox interactin | protein_coding | 5 | 5 | 6 | 6 | 0.984 |
| 57332 | NM_020649 | **CBX8** | chromobox 8 | protein_coding | 9 | 9 | 10 | 10 | 1.076 |
| 57333 | NM_020650,XM_02 | **RCN3** | reticulocalbin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57335 | NM_001130842,NM | **ZNF286A** | zinc finger protein 286A | protein_coding | 12 | 9 | 13 | 10 | 0.826 |
| 57336 | NM_001346167,NM | **ZNF287** | zinc finger protein 287 | protein_coding | 1 | 1 | 2 | 2 | 0.834 |
| 57337 | NM_001077203,NM | **SENP7** | SUMO specific peptidase | protein_coding | 11 | 8 | 12 | 9 | 0.766 |
| 57338 | NM_001271604,NM | **JPH3** | junctophilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57343 | NM_001290318,NM | **ZNF304** | zinc finger protein 304 | protein_coding | 6 | 7 | 7 | 8 | 1.184 |
| 57348 | NM_001005367,NM | **TTYH1** | tweety family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57369 | NM_020660,XM_01 | **GJD2** | gap junction protein delt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57379 | NM_001330343,NM | **AICDA** | activation induced cytidir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57380 | NM_001286264,NM | **MRS2** | magnesium transporter M | protein_coding | 19 | 15 | 20 | 16 | 0.820 |
| 57381 | NM_020663,XM_00 | **RHOJ** | ras homolog family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57393 | NM_020665,XM_01 | **CLTRN** | collectrin, amino acid tra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57396 | NM_020666 | **CLK4** | CDC like kinase 4 | protein_coding | 8 | 9 | 9 | 10 | 1.118 |
| 57402 | NM_020672,XM_00 | **S100A14** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57403 | NM_020673 | **RAB22A** | RAB22A, member RAS o | protein_coding | 16 | 14 | 17 | 15 | 0.913 |

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|---|---|---|---|---|---|---|---|---|---|
| 57404 | NM_001371695,NM | **CYP20A1** | cytochrome P450 family | protein_coding | 6 | 5 | 7 | 6 | 0.927 |
| 57405 | NM_020675,XM_01 | **SPC25** | SPC25 component of NI | protein_coding | 87 | 81 | 88 | 82 | 0.927 |
| 57406 | NM_001320126,NM | **ABHD6** | abhydrolase domain con | protein_coding | 7 | 5 | 8 | 6 | 0.861 |
| 57407 | NM_001305141,NM | **NMRAL1** | NmrA like redox sensor 1 | protein_coding | 64 | 72 | 65 | 73 | 1.134 |
| 57408 | NM_001304389,NM | **LRTM1** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57409 | NM_001242498,NM | **MIF4GD** | MIF4G domain containin | protein_coding | 39 | 44 | 40 | 45 | 1.146 |
| 57410 | NM_001048218,NM | **SCYL1** | SCY1 like pseudokinase | protein_coding | 67 | 67 | 68 | 68 | 0.999 |
| 57412 | NM_020682 | **AS3MT** | arsenite methyltransfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57413 | NM_001081976,NM | **TMIGD3** | transmembrane and imr | protein_coding | 0 | 0 | 1 | 1 | 1.382 |
| 57414 | NM_001040456,NM | **RHBDD2** | rhomboid domain contair | protein_coding | 63 | 72 | 64 | 73 | 1.126 |
| 57415 | NM_001291941,NM | **C3orf14** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57418 | NM_001372085,NM | **WDR18** | WD repeat domain 18 | protein_coding | 125 | 131 | 126 | 132 | 1.050 |
| 57419 | NM_020689 | **SLC24A3** | solute carrier family 24 m | protein_coding | 0 | 0 | 1 | 1 | 1.083 |
| 57446 | NM_022477,NM_03 | **NDRG3** | NDRG family member 3 | protein_coding | 39 | 36 | 40 | 37 | 0.921 |
| 57447 | NM_001282211,NM | **NDRG2** | NDRG family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57448 | NM_001378125,NM | **BIRC6** | baculoviral IAP repeat co | protein_coding | 25 | 19 | 26 | 20 | 0.782 |
| 57449 | NM_001042663,NM | **PLEKHG5** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57451 | NM_001080428,NM | **TENM2** | teneurin transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57452 | NM_001168368,NM | **GALNT16** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57453 | NM_001367904,NM | **DSCAML1** | DS cell adhesion molecu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57455 | NM_020695,XM_01 | **REXO1** | RNA exonuclease 1 hom | protein_coding | 39 | 40 | 40 | 41 | 1.025 |
| 57456 | NM_001320334,NM | **KIAA1143** | KIAA1143 | protein_coding | 36 | 32 | 37 | 33 | 0.884 |
| 57458 | NM_001301036,NM | **TMCC3** | transmembrane and coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57459 | NM_020699,XM_00 | **GATAD2B** | GATA zinc finger domain | protein_coding | 29 | 28 | 30 | 29 | 0.976 |
| 57460 | NM_020700,XM_01 | **PPM1H** | protein phosphatase, Mg | protein_coding | 2 | 2 | 3 | 3 | 0.913 |
| 57461 | NM_001199469,NM | **ISY1** | ISY1 splicing factor hom | protein_coding | 66 | 66 | 67 | 67 | 1.013 |
| 57462 | NM_020702,XM_01 | **MYORG** | myogenesis regulating g | protein_coding | 14 | 11 | 15 | 12 | 0.833 |
| 57463 | NM_020703,XM_01 | **AMIGO1** | adhesion molecule with I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57464 | NM_001134336,NM | **STRIP2** | striatin interacting proteir | protein_coding | 6 | 6 | 7 | 7 | 1.053 |
| 57465 | NM_001199107,NM | **TBC1D24** | TBC1 domain family mer | protein_coding | 7 | 6 | 8 | 7 | 0.882 |
| 57466 | NM_001145444,NM | **SCAF4** | SR-related CTD associat | protein_coding | 54 | 47 | 55 | 48 | 0.876 |
| 57467 | NM_020707,NR_02 | **HHATL** | hedgehog acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57468 | NM_001134771,NM | **SLC12A5** | solute carrier family 12 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57469 | NM_020709 | **PNMA8B** | PNMA family member 8E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57470 | NM_020710 | **LRRC47** | leucine rich repeat conta | protein_coding | 29 | 32 | 30 | 33 | 1.131 |
| 57471 | NM_001009959,NM | **ERMN** | ermin | protein_coding | 1 | 1 | 2 | 2 | 1.038 |
| 57472 | NM_001370472,NM | **CNOT6** | CCR4-NOT transcription | protein_coding | 43 | 38 | 44 | 39 | 0.902 |
| 57473 | NM_020713,XM_01 | **ZNF512B** | zinc finger protein 512B | protein_coding | 0 | 0 | 1 | 1 | 1.089 |
| 57474 | NM_020714 | **ZNF490** | zinc finger protein 490 | protein_coding | 7 | 6 | 8 | 7 | 0.867 |
| 57475 | NM_020715,XM_01 | **PLEKHH1** | pleckstrin homology, My | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57476 | NM_001286563,NM | **GRAMD1B** | GRAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 57477 | NM_020717,NR_02 | **SHROOM4** | shroom family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57478 | NM_020718,XM_01 | **USP31** | ubiquitin specific peptida | protein_coding | 4 | 4 | 5 | 5 | 0.964 |
| 57479 | NM_020719,XR_002 | **PRR12** | proline rich 12 | protein_coding | 14 | 13 | 15 | 14 | 0.975 |
| 57480 | NM_001029884,NM | **PLEKHG1** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 57481 | NM_020721,XM_00 | **KIAA1210** | KIAA1210 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57482 | NM_020722,XM_00 | **CRACD** | capping protein inhibiting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57484 | NM_020724,XM_00 | **RNF150** | ring finger protein 150 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57486 | NM_020726,XM_00 | **NLN** | neurolysin | protein_coding | 33 | 29 | 34 | 30 | 0.904 |
| 57488 | NM_001367773,NM | **ESYT2** | extended synaptotagmin | protein_coding | 69 | 73 | 70 | 74 | 1.047 |
| 57489 | NM_001007022,NM | **ODF2L** | outer dense fiber of sper | protein_coding | 5 | 5 | 6 | 6 | 0.933 |
| 57491 | NM_001377236,NM | **AHRR** | aryl-hydrocarbon recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57492 | NM_001363725,NM | **ARID1B** | AT-rich interaction domai | protein_coding | 13 | 12 | 14 | 13 | 0.918 |
| 57493 | NM_020733,XM_00 | **HEG1** | heart development prote | protein_coding | 63 | 47 | 64 | 48 | 0.760 |
| 57494 | NM_001297776,NM | **RIMKLB** | ribosomal modification pı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57495 | NM_001144990 | **NWD2** | NACHT and WD repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57496 | NM_001308142,NM | **MRTFB** | myocardin related transc | protein_coding | 6 | 6 | 7 | 7 | 0.940 |
| 57497 | NM_020737,XM_01 | **LRFN2** | leucine rich repeat and fi | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 57498 | NM_001348729,NM | **KIDINS220** | kinase D interacting subs | protein_coding | 35 | 29 | 36 | 30 | 0.834 |
| 57501 | NM_001348520,NM | **CFAP92** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 57502 | NM_001282145,NM | **NLGN4X** | neuroligin 4 X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57504 | NM_001282755,NM | **MTA3** | metastasis associated 1 | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 57505 | NM_020745,XM_00 | **AARS2** | alanyl-tRNA synthetase 2 | protein_coding | 31 | 31 | 32 | 32 | 0.994 |
| 57506 | NM_001206491,NM | **MAVS** | mitochondrial antiviral sig | protein_coding | 28 | 23 | 29 | 24 | 0.840 |
| 57507 | NM_020747,XM_00 | **ZNF608** | zinc finger protein 608 | protein_coding | 13 | 10 | 14 | 11 | 0.800 |
| 57508 | NM_001330417,NM | **INTS2** | integrator complex subu | protein_coding | 22 | 20 | 23 | 21 | 0.927 |
| 57509 | NM_001001924,NM | **MTUS1** | microtubule associated s | protein_coding | 1 | 0 | 2 | 1 | 0.817 |
| 57510 | NM_020750,NR_14 | **XPO5** | exportin 5 | protein_coding | 86 | 77 | 87 | 78 | 0.900 |
| 57511 | NM_001145079,NM | **COG6** | component of oligomeric | protein_coding | 22 | 19 | 23 | 20 | 0.876 |
| 57512 | NM_020752,XM_01 | **GPR158** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57513 | NM_001142643,NM | **CASKIN2** | CASK interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 57514 | NM_020754,XM_00 | **ARHGAP31** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 57515 | NM_020755 | **SERINC1** | serine incorporator 1 | protein_coding | 65 | 63 | 66 | 64 | 0.962 |
| 57519 | NM_020759,XM_01 | **STARD9** | StAR related lipid transfe | protein_coding | 1 | 1 | 2 | 2 | 0.921 |
| 57520 | NM_001304840,NM | **HECW2** | HECT, C2 and WW dom | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 57521 | NM_001163034,NM | **RPTOR** | regulatory associated pro | protein_coding | 19 | 20 | 20 | 21 | 1.078 |
| 57522 | NM_001346201,NM | **SRGAP1** | SLIT-ROBO Rho GTPas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57523 | NM_025081,XM_01 | **NYNRIN** | NYN domain and retrovir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57524 | NM_020764,XM_02 | **CASKIN1** | CASK interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 57526 | NM_001105243,NM | **PCDH19** | protocadherin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57528 | NM_001370486,NM | **KCTD16** | potassium channel tetra | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 57529 | NM_020769,XM_01 | **RTL9** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 57530 | NM_020770,XM_00 | **CGN** | cingulin | protein_coding | 2 | 1 | 3 | 2 | 0.928 |
| 57531 | NM_001321080,NM | **HACE1** | HECT domain and ankyr | protein_coding | 9 | 7 | 10 | 8 | 0.821 |
| 57532 | NM_020772,XM_01 | **NUFIP2** | nuclear FMR1 interacting | protein_coding | 60 | 51 | 61 | 52 | 0.855 |
| 57533 | NM_001113361,NM | **TBC1D14** | TBC1 domain family mer | protein_coding | 55 | 54 | 56 | 55 | 0.980 |
| 57534 | NM_020774,XM_01 | **MIB1** | mindbomb E3 ubiquitin p | protein_coding | 13 | 10 | 14 | 11 | 0.802 |
| 57535 | NM_001267048,NM | **ELAPOR1** | endosome-lysosome ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57536 | NM_001322327,NM | **KIAA1328** | KIAA1328 | protein_coding | 7 | 6 | 8 | 7 | 0.849 |
| 57537 | NM_020777,XM_00 | **SORCS2** | sortilin related VPS10 do | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 57538 | NM_020778 | **ALPK3** | alpha kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 57539 | NM_001006657,NM | **WDR35** | WD repeat domain 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57540 | NM_020780,XM_01 | **DISP3** | dispatched RND transpo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57541 | NM_020781,NM_17 | **ZNF398** | zinc finger protein 398 | protein_coding | 8 | 7 | 9 | 8 | 0.900 |
| 57542 | NM_020782,XM_01 | **KLHL42** | kelch like family member | protein_coding | 15 | 13 | 16 | 14 | 0.888 |
| 57544 | NM_001160047,NM | **TXNDC16** | thioredoxin domain conta | protein_coding | 10 | 10 | 11 | 11 | 0.921 |
| 57545 | NM_001080522,NM | **CC2D2A** | coiled-coil and C2 domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57546 | NM_001329928,NM | **PDP2** | pyruvate dehyrogenase p | protein_coding | 25 | 18 | 26 | 19 | 0.719 |
| 57547 | NM_020787,XM_00 | **ZNF624** | zinc finger protein 624 | protein_coding | 1 | 1 | 2 | 2 | 1.058 |
| 57549 | NM_001135050,NM | **IGSF9** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57551 | NM_020791,NM_02 | **TAOK1** | TAO kinase 1 | protein_coding | 18 | 14 | 19 | 15 | 0.763 |
| 57552 | NM_001146276,NM | **NCEH1** | neutral cholesterol ester | protein_coding | 23 | 19 | 24 | 20 | 0.821 |
| 57553 | NM_001122731,NM | **MICAL3** | microtubule associated n | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57554 | NM_001330635,NM | **LRRC7** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57555 | NM_020795,XM_00 | **NLGN2** | neuroligin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57556 | NM_001300780,NM | **SEMA6A** | semaphorin 6A | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 57558 | NM_020798,XM_01 | **USP35** | ubiquitin specific peptida | protein_coding | 2 | 2 | 3 | 3 | 0.945 |
| 57559 | NM_020799,XM_00 | **STAMBPL1** | STAM binding protein lik | protein_coding | 36 | 39 | 37 | 40 | 1.090 |
| 57560 | NM_001190241,NM | **IFT80** | intraflagellar transport 8( | protein_coding | 16 | 17 | 17 | 18 | 1.037 |
| 57561 | NM_001329670,NM | **ARRDC3** | arrestin domain containir | protein_coding | 23 | 25 | 24 | 26 | 1.071 |
| 57562 | NM_001363543,NM | **CEP126** | centrosomal protein 126 | protein_coding | 1 | 1 | 2 | 2 | 0.995 |
| 57563 | NM_001292003,NM | **KLHL8** | kelch like family member | protein_coding | 8 | 8 | 9 | 9 | 0.968 |
| 57565 | NM_020805,XM_01 | **KLHL14** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57567 | NM_020807,XM_00 | **ZNF319** | zinc finger protein 319 | protein_coding | 8 | 9 | 9 | 10 | 1.093 |
| 57568 | NM_001377488,NM | **SIPA1L2** | signal induced proliferati | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57569 | NM_001258415,NM | **ARHGAP20** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57570 | NM_001350253,NM | **TRMT5** | tRNA methyltransferase | protein_coding | 11 | 10 | 12 | 11 | 0.900 |
| 57571 | NM_001166222,NM | **CARNS1** | carnosine synthase 1 | protein_coding | 1 | 1 | 2 | 2 | 1.192 |
| 57572 | NM_001367830,NM | **DOCK6** | dedicator of cytokinesis 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57573 | NM_001321768,NM | **ZNF471** | zinc finger protein 471 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57574 | NM_020814 | **MARCHF4** | membrane associated rir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57575 | NM_020815,NM_03 | **PCDH10** | protocadherin 10 | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 57576 | NM_001122819,NM | **KIF17** | kinesin family member 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57577 | NM_001353766,NM | **CCDC191** | coiled-coil domain conta | protein_coding | 1 | 1 | 2 | 2 | 0.886 |
| 57578 | NM_001346218,NM | **UNC79** | unc-79 homolog, NALCN | protein_coding | 0 | 0 | 1 | 1 | 1.332 |
| 57579 | NM_001105531,NM | **FAM135A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 57580 | NM_020820,XM_01 | **PREX1** | phosphatidylinositol-3,4,! | protein_coding | 218 | 208 | 219 | 209 | 0.952 |
| 57582 | NM_001272003,NM | **KCNT1** | potassium sodium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57583 | NM_001376817,NM | **TMEM181** | transmembrane protein 1 | protein_coding | 19 | 17 | 20 | 18 | 0.889 |
| 57584 | NM_001367447,NM | **ARHGAP21** | Rho GTPase activating p | protein_coding | 1 | 1 | 2 | 2 | 0.954 |
| 57585 | NM_020825 | **CRAMP1** | cramped chromatin regu | protein_coding | 11 | 11 | 12 | 12 | 0.991 |
| 57586 | NM_001247987,NM | **SYT13** | synaptotagmin 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57587 | NM_001292033,NM | **CFAP97** | cilia and flagella associa | protein_coding | 31 | 28 | 32 | 29 | 0.910 |
| 57589 | NM_001135920,NM | **RIC1** | RIC1 homolog, RAB6A G | protein_coding | 11 | 8 | 12 | 9 | 0.746 |
| 57590 | NM_020830 | **WDFY1** | WD repeat and FYVE do | protein_coding | 54 | 48 | 55 | 49 | 0.883 |
| 57591 | NM_001282660,NM | **MRTFA** | myocardin related transc | protein_coding | 17 | 16 | 18 | 17 | 0.943 |
| 57592 | NM_001304763,NM | **ZNF687** | zinc finger protein 687 | protein_coding | 16 | 14 | 17 | 15 | 0.916 |
| 57593 | NM_001110514,NR | **EBF4** | EBF family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57594 | NM_020834 | **HOMEZ** | homeobox and leucine z | protein_coding | 1 | 1 | 2 | 2 | 0.863 |
| 57595 | NM_001303512,NM | **PDZD4** | PDZ domain containing 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57596 | NM_001159531,NM | **BEGAIN** | brain enriched guanylate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57597 | NM_001291324,NM | **BAHCC1** | BAH domain and coiled-( | protein_coding | 4 | 4 | 5 | 5 | 1.029 |
| 57599 | NM_001303402,NM | **WDR48** | WD repeat domain 48 | protein_coding | 17 | 16 | 18 | 17 | 0.941 |
| 57600 | NM_001323916,NM | **FNIP2** | folliculin interacting prote | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 57602 | NM_001321291,XM | **USP36** | ubiquitin specific peptida | protein_coding | 59 | 59 | 60 | 60 | 1.006 |
| 57604 | NM_001099677,NM | **TRMT9B** | tRNA methyltransferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57605 | NM_001300801,NM | **PITPNM2** | phosphatidylinositol tran | protein_coding | 4 | 4 | 5 | 5 | 0.919 |
| 57606 | NM_020846,XM_00 | **SLAIN2** | SLAIN motif family memt | protein_coding | 50 | 46 | 51 | 47 | 0.923 |
| 57608 | NM_001350001,NM | **JCAD** | junctional cadherin 5 ass | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 57609 | NM_173602 | **DIP2B** | disco interacting protein | protein_coding | 22 | 18 | 23 | 19 | 0.864 |
| 57610 | NM_001320238,NM | **RANBP10** | RAN binding protein 10 | protein_coding | 12 | 13 | 13 | 14 | 1.052 |
| 57611 | NM_001130136,NM | **ISLR2** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 57613 | NM_020853 | **FAM234B** | family with sequence sir | protein_coding | 4 | 3 | 5 | 4 | 0.873 |
| 57614 | NM_001346229,NM | **RELCH** | RAB11 binding and LisH | protein_coding | 10 | 8 | 11 | 9 | 0.787 |
| 57615 | NM_020855 | **ZNF492** | zinc finger protein 492 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57616 | NM_020856,NR_13 | **TSHZ3** | teashirt zinc finger home | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57617 | NM_020857,XM_01 | **VPS18** | VPS18 core subunit of C | protein_coding | 25 | 27 | 26 | 28 | 1.089 |
| 57619 | NM_020859 | **SHROOM3** | shroom family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 57620 | NM_001169117,NM | **STIM2** | stromal interaction molec | protein_coding | 21 | 19 | 22 | 20 | 0.903 |
| 57621 | NM_020861,XM_00 | **ZBTB2** | zinc finger and BTB dom | protein_coding | 45 | 47 | 46 | 48 | 1.032 |
| 57622 | NM_020862,XM_01 | **LRFN1** | leucine rich repeat and fi | protein_coding | 8 | 9 | 9 | 10 | 1.052 |
| 57623 | NM_001029939,NM | **ZFAT** | zinc finger and AT-hook | protein_coding | 3 | 3 | 4 | 4 | 1.049 |
| 57624 | NM_001371273,NM | **NYAP2** | neuronal tyrosine-phospl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57626 | NM_001286725,NM | **KLHL1** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57628 | NM_001004360,NM | **DPP10** | dipeptidyl peptidase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57630 | NM_020870 | **SH3RF1** | SH3 domain containing r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57631 | NM_001243963,NM | **LRCH2** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57633 | NM_001324188,NM | **LRRN1** | leucine rich repeat neurc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57634 | NM_015409 | **EP400** | E1A binding protein p40( | protein_coding | 21 | 19 | 22 | 20 | 0.876 |
| 57636 | NM_001199417,XM | **ARHGAP23** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.062 |
| 57639 | NM_020879 | **CCDC146** | coiled-coil domain contai | protein_coding | 7 | 7 | 8 | 8 | 0.993 |
| 57642 | NM_020882,XM_01 | **COL20A1** | collagen type XX alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57643 | NM_020883,XM_01 | **ZSWIM5** | zinc finger SWIM-type cc | protein_coding | 1 | 1 | 2 | 2 | 1.112 |
| 57644 | NM_020884,XM_00 | **MYH7B** | myosin heavy chain 7B | protein_coding | 0 | 0 | 1 | 1 | 1.106 |
| 57645 | NM_001314014,NM | **POGK** | pogo transposable elem | protein_coding | 90 | 86 | 91 | 87 | 0.956 |
| 57646 | NM_001301029,NM | **USP28** | ubiquitin specific peptida | protein_coding | 22 | 19 | 23 | 20 | 0.844 |
| 57647 | NM_032656,XM_00 | **DHX37** | DEAH-box helicase 37 | protein_coding | 64 | 59 | 65 | 60 | 0.935 |
| 57648 | NM_001198972,NM | **KIAA1522** | KIAA1522 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57649 | NM_001033561,NM | **PHF12** | PHD finger protein 12 | protein_coding | 35 | 37 | 36 | 38 | 1.060 |
| 57650 | NM_020890,XM_00 | **CIP2A** | cellular inhibitor of PP2A | protein_coding | 75 | 70 | 76 | 71 | 0.932 |
| 57653 | NR_036527,NR_03 | **SUGT1P4-STRA6LP-C** | SUGT1P4-STRA6LP-CC | lncRNA | 0 | 0 | 1 | 1 | 0.965 |
| 57654 | NM_001317934,NM | **UVSSA** | UV stimulated scaffold p | protein_coding | 3 | 4 | 4 | 5 | 1.151 |
| 57655 | NM_001136199,NM | **GRAMD1A** | GRAM domain containin | protein_coding | 20 | 17 | 21 | 18 | 0.871 |
| 57657 | NM_020897,NR_07 | **HCN3** | hyperpolarization activat | protein_coding | 1 | 1 | 2 | 2 | 0.980 |
| 57658 | NM_001143682,NM | **CALCOCO1** | calcium binding and coil | protein_coding | 2 | 3 | 3 | 4 | 1.197 |
| 57659 | NM_001128833,NM | **ZBTB4** | zinc finger and BTB dom | protein_coding | 1 | 1 | 2 | 2 | 0.932 |
| 57661 | NM_001286581,NM | **PHRF1** | PHD and ring finger dom | protein_coding | 49 | 52 | 50 | 53 | 1.042 |
| 57662 | NM_001080429,NM | **CAMSAP3** | calmodulin regulated spe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57663 | NM_020903,XM_02 | **USP29** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57664 | NM_001161354,NM | **PLEKHA4** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 0.860 |
| 57665 | NM_020905 | **RDH14** | retinol dehydrogenase 1 | protein_coding | 15 | 15 | 16 | 16 | 0.986 |
| 57666 | NM_001142641,NM | **FBRSL1** | fibrosin like 1 | protein_coding | 12 | 14 | 13 | 15 | 1.147 |
| 57669 | NM_001184937,NM | **EPB41L5** | erythrocyte membrane p | protein_coding | 1 | 1 | 2 | 2 | 1.183 |
| 57670 | NM_001164665,NM | **KIAA1549** | KIAA1549 | protein_coding | 2 | 1 | 3 | 2 | 0.877 |
| 57673 | NM_001080450,NM | **BEND3** | BEN domain containing 3 | protein_coding | 1 | 2 | 2 | 3 | 1.233 |
| 57674 | NM_001256071,NM | **RNF213** | ring finger protein 213 | protein_coding | 252 | 199 | 253 | 200 | 0.791 |
| 57677 | NM_001297619,NM | **ZFP14** | ZFP14 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57678 | NM_001244949,NM | **GPAM** | glycerol-3-phosphate ac | protein_coding | 10 | 9 | 11 | 10 | 0.879 |
| 57679 | NM_001135745,NM | **ALS2** | alsin Rho guanine nucle | protein_coding | 14 | 12 | 15 | 13 | 0.895 |
| 57680 | NM_001170629,NM | **CHD8** | chromodomain helicase I | protein_coding | 55 | 49 | 56 | 50 | 0.895 |
| 57683 | NM_001285549,NM | **ZDBF2** | zinc finger DBF-type con | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 57684 | NM_001304363,NM | **ZBTB26** | zinc finger and BTB dom | protein_coding | 10 | 9 | 11 | 10 | 0.921 |
| 57685 | NM_001293274,NM | **CACHD1** | cache domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57687 | NM_020927 | **VAT1L** | vesicle amine transport 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57688 | NM_020928,XM_01 | **ZSWIM6** | zinc finger SWIM-type cc | protein_coding | 12 | 9 | 13 | 10 | 0.816 |
| 57689 | NM_001258419,NM | **LRRC4C** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57690 | NM_001142640,NM | **TNRC6C** | trinucleotide repeat conta | protein_coding | 6 | 5 | 7 | 6 | 0.915 |
| 57691 | NM_001286274,NM | **KIAA1586** | KIAA1586 | protein_coding | 11 | 9 | 12 | 10 | 0.815 |
| 57692 | NM_020932 | **MAGEE1** | MAGE family member E1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57693 | NM_001190791,NM | **ZNF317** | zinc finger protein 317 | protein_coding | 48 | 45 | 49 | 46 | 0.933 |
| 57695 | NM_020935,XM_00 | **USP37** | ubiquitin specific peptida | protein_coding | 25 | 21 | 26 | 22 | 0.830 |
| 57696 | NM_020936,NR_13 | **DDX55** | DEAD-box helicase 55 | protein_coding | 43 | 36 | 44 | 37 | 0.848 |
| 57697 | NM_001308133,NM | **FANCM** | FA complementation gro | protein_coding | 5 | 5 | 6 | 6 | 0.988 |
| 57698 | NM_001127211,NM | **SHTN1** | shootin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57699 | NM_001314017,NM | **CPNE5** | copine 5 | protein_coding | 0 | 0 | 1 | 1 | 1.043 |
| 57700 | NM_001135051,NM | **FAM160B1** | family with sequence sir | protein_coding | 6 | 5 | 7 | 6 | 0.880 |
| 57701 | NM_001037806,NM | **NCKAP5L** | NCK associated protein ! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57703 | NM_001376029,NM | **CWC22** | CWC22 spliceosome ass | protein_coding | 57 | 53 | 58 | 54 | 0.924 |
| 57704 | NM_001330660,NM | **GBA2** | glucosylceramidase beta | protein_coding | 36 | 33 | 37 | 34 | 0.906 |
| 57705 | NM_001370153,NM | **WDFY4** | WDFY family member 4 | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 57706 | NM_001352964,NM | **DENND1A** | DENN domain containing | protein_coding | 6 | 7 | 7 | 8 | 1.046 |
| 57707 | NM_020947,XM_00 | **MEAK7** | MTOR associated protein | protein_coding | 6 | 8 | 7 | 9 | 1.243 |
| 57708 | NM_001077700,NM | **MIER1** | MIER1 transcriptional reg | protein_coding | 41 | 34 | 42 | 35 | 0.838 |
| 57709 | NM_020949 | **SLC7A14** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57710 | NM_020950 | **KIAA1614** | KIAA1614 | protein_coding | 0 | 0 | 1 | 1 | 0.866 |
| 57711 | NM_001145649,NM | **ZNF529** | zinc finger protein 529 | protein_coding | 2 | 2 | 3 | 3 | 0.929 |
| 57713 | NM_001018039,NM | **SFMBT2** | Scm like with four mbt d | protein_coding | 39 | 35 | 40 | 36 | 0.892 |
| 57715 | NM_001203244,NM | **SEMA4G** | semaphorin 4G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57716 | NM_020956,NM_18 | **PRX** | periaxin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57717 | NM_020957 | **PCDHB16** | protocadherin beta 16 | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 57718 | NM_001348142,NM | **PPP4R4** | protein phosphatase 4 re | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 57719 | NM_020959,XM_01 | **ANO8** | anoctamin 8 | protein_coding | 2 | 2 | 3 | 3 | 1.028 |
| 57720 | NM_001136557,NM | **GPR107** | G protein-coupled recep | protein_coding | 22 | 21 | 23 | 22 | 0.955 |
| 57721 | NM_020961,XM_00 | **METTL14** | methyltransferase like 14 | protein_coding | 11 | 11 | 12 | 12 | 0.990 |
| 57722 | NM_020962,XM_01 | **IGDCC4** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 57724 | NM_020964,XM_01 | **EPG5** | ectopic P-granules autop | protein_coding | 7 | 6 | 8 | 7 | 0.883 |
| 57727 | NM_001348148,NM | **NCOA5** | nuclear receptor coactiva | protein_coding | 72 | 67 | 73 | 68 | 0.936 |
| 57728 | NM_001317924,NM | **WDR19** | WD repeat domain 19 | protein_coding | 5 | 5 | 6 | 6 | 0.984 |
| 57730 | NM_001353337,NM | **ANKRD36B** | ankyrin repeat domain 3( | protein_coding | 4 | 4 | 5 | 5 | 1.029 |
| 57731 | NM_020971,NM_02 | **SPTBN4** | spectrin beta, non-erythr | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 57732 | NM_001172656,NM | **ZFYVE28** | zinc finger FYVE-type co | protein_coding | 23 | 21 | 24 | 22 | 0.921 |
| 57733 | NR_102355,NR_10 | **GBA3** | glucosylceramidase beta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 57758 | NM_001170690,NM | **SCUBE2** | signal peptide, CUB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57761 | NM_001301188,NM | **TRIB3** | tribbles pseudokinase 3 | protein_coding | 24 | 23 | 25 | 24 | 0.992 |
| 57763 | NM_023039,XM_00 | **ANKRA2** | ankyrin repeat family A n | protein_coding | 13 | 13 | 14 | 14 | 1.010 |
| 57786 | NM_001204456,NM | **RBAK** | RB associated KRAB zin | protein_coding | 12 | 10 | 13 | 11 | 0.824 |
| 57787 | NM_001199867,NM | **MARK4** | microtubule affinity regul | protein_coding | 7 | 5 | 8 | 6 | 0.808 |
| 57794 | NM_172231,XM_00 | **SUGP1** | SURP and G-patch dom | protein_coding | 39 | 43 | 40 | 44 | 1.110 |
| 57795 | NM_021165,XM_00 | **BRINP2** | BMP/retinoic acid inducit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57798 | NM_021167,NR_05 | **GATAD1** | GATA zinc finger domain | protein_coding | 15 | 15 | 16 | 16 | 0.967 |
| 57799 | NM_001172663,NM | **RAB40C** | RAB40C, member RAS c | protein_coding | 12 | 12 | 13 | 13 | 1.067 |
| 57801 | NM_001142467,NM | **HES4** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 57804 | NM_001256870,NM | **POLD4** | DNA polymerase delta 4, | protein_coding | 14 | 14 | 15 | 15 | 0.986 |
| 57805 | NM_001363068,NM | **CCAR2** | cell cycle and apoptosis | protein_coding | 74 | 67 | 75 | 68 | 0.915 |
| 57817 | NM_021175 | **HAMP** | hepcidin antimicrobial pe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57818 | NM_001081686,NM | **G6PC2** | glucose-6-phosphatase ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57819 | NM_021177 | **LSM2** | LSM2 homolog, U6 smal | protein_coding | 116 | 128 | 117 | 129 | 1.110 |
| 57820 | NM_021178,NM_18 | **CCNB1IP1** | cyclin B1 interacting prot | protein_coding | 60 | 49 | 61 | 50 | 0.820 |
| 57821 | NM_001300968,NM | **CCDC181** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57822 | NM_001195010,NM | **GRHL3** | grainyhead like transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57823 | NM_001282588,NM | **SLAMF7** | SLAM family member 7 | protein_coding | 341 | 342 | 342 | 343 | 1.005 |
| 57824 | NM_021182 | **HMHB1** | histocompatibility minor H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57826 | NM_001271186,NM | **RAP2C** | RAP2C, member of RAS | protein_coding | 68 | 59 | 69 | 60 | 0.868 |
| 57827 | NM_021184 | **C6orf47** | chromosome 6 open rea | protein_coding | 31 | 27 | 32 | 28 | 0.859 |
| 57828 | NM_001330496,NM | **CATSPERG** | cation channel sperm as | protein_coding | 0 | 0 | 1 | 1 | 0.895 |
| 57829 | NM_021186 | **ZP4** | zona pellucida glycoprot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57830 | NM_021046 | **KRTAP5-8** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57834 | NM_001128932,NM | **CYP4F11** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57835 | NM_021196,NM_13 | **SLC4A5** | solute carrier family 4 me | protein_coding | 1 | 1 | 2 | 2 | 0.997 |
| 57862 | NM_001242924,NM | **ZNF410** | zinc finger protein 410 | protein_coding | 32 | 31 | 33 | 32 | 0.951 |
| 57863 | NM_001127173,NM | **CADM3** | cell adhesion molecule 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 57864 | NM_033051,XR_00 | **SLC46A2** | solute carrier family 46 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58155 | NM_001300985,NM | **PTBP2** | polypyrimidine tract bind | protein_coding | 5 | 6 | 6 | 7 | 1.189 |
| 58157 | NM_021257 | **NGB** | neuroglobin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58158 | NM_021191 | **NEUROD4** | neuronal differentiation 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58160 | NR_166510,NR_16 | **NFE4** | nuclear factor, erythroid | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 58189 | NM_001282466,NM | **WFDC1** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58190 | NM_001206878,NM | **CTDSP1** | CTD small phosphatase | protein_coding | 89 | 101 | 90 | 102 | 1.133 |
| 58191 | NM_001100812,NM | **CXCL16** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58472 | NM_001271213,NM | **SQOR** | sulfide quinone oxidored | protein_coding | 70 | 66 | 71 | 67 | 0.943 |
| 58473 | NM_001130033,NM | **PLEKHB1** | pleckstrin homology dor | protein_coding | 4 | 4 | 5 | 5 | 0.964 |
| 58475 | NM_021201,NM_20 | **MS4A7** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58476 | NM_001329429,NM | **TP53INP2** | tumor protein p53 induci | protein_coding | 1 | 2 | 2 | 3 | 1.136 |
| 58477 | NM_001379313,NM | **SRPRB** | SRP receptor subunit be | protein_coding | 105 | 99 | 106 | 100 | 0.943 |
| 58478 | NM_001292017,NM | **ENOPH1** | enolase-phosphatase 1 | protein_coding | 136 | 132 | 137 | 133 | 0.973 |
| 58480 | NM_021205,NR_03 | **RHOU** | ras homolog family mem | protein_coding | 0 | 0 | 1 | 1 | 0.931 |
| 58483 | NR_024032 | **LINC00474** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 58484 | NM_001199138,NM | **NLRC4** | NLR family CARD domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58485 | NM_001166621,NM | **TRAPPC1** | trafficking protein particl | protein_coding | 123 | 132 | 124 | 133 | 1.070 |
| 58486 | NM_001143667,NM | **ZBED5** | zinc finger BED-type con | protein_coding | 28 | 24 | 29 | 25 | 0.863 |
| 58487 | NM_001039618,NR | **CREBZF** | CREB/ATF bZIP transcri | protein_coding | 55 | 51 | 56 | 52 | 0.940 |
| 58488 | NM_001102402,NM | **PCTP** | phosphatidylcholine tran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58489 | NM_021214 | **ABHD17C** | abhydrolase domain con | protein_coding | 5 | 6 | 6 | 7 | 1.134 |
| 58490 | NM_021215,XM_00 | **RPRD1B** | regulation of nuclear pre | protein_coding | 103 | 100 | 104 | 101 | 0.963 |
| 58491 | NM_001370214,NM | **ZNF71** | zinc finger protein 71 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58492 | NM_021217,XM_01 | **ZNF77** | zinc finger protein 77 | protein_coding | 5 | 6 | 6 | 7 | 1.073 |
| 58493 | NM_001329585,NM | **INIP** | INTS3 and NABP interac | protein_coding | 36 | 36 | 37 | 37 | 1.009 |
| 58494 | NM_001270407,NM | **JAM2** | junctional adhesion mole | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 58495 | NM_001303461,NM | **OVOL2** | ovo like zinc finger 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58496 | NM_021221 | **LY6G5B** | lymphocyte antigen 6 far | protein_coding | 17 | 18 | 18 | 19 | 1.066 |
| 58497 | NM_001303229,NM | **PRUNE1** | prune exopolyphosphata | protein_coding | 27 | 23 | 28 | 24 | 0.861 |
| 58498 | NM_021223,XM_00 | **MYL7** | myosin light chain 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58499 | NM_001347997,NM | **ZNF462** | zinc finger protein 462 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58500 | NM_001109689,NM | **ZNF250** | zinc finger protein 250 | protein_coding | 2 | 1 | 3 | 2 | 0.672 |
| 58503 | NM_001302807,NM | **OPRPN** | opiorphin prepropeptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58504 | NM_001256024,NM | **ARHGAP22** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58505 | NM_001267817,NM | **OSTC** | oligosaccharyltransferas | protein_coding | 172 | 158 | 173 | 159 | 0.921 |
| 58506 | NM_021228,XM_00 | **SCAF1** | SR-related CTD associat | protein_coding | 51 | 59 | 52 | 60 | 1.151 |
| 58508 | NM_170606,XM_00 | **KMT2C** | lysine methyltransferase | protein_coding | 17 | 12 | 18 | 13 | 0.728 |
| 58509 | NM_001080543,NM | **CACTIN** | cactin, spliceosome C co | protein_coding | 35 | 38 | 36 | 39 | 1.089 |
| 58510 | NM_001378292,NM | **PRODH2** | proline dehydrogenase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58511 | NM_021233,NM_05 | **DNASE2B** | deoxyribonuclease 2 bet | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58512 | NM_001080418,XM | **DLGAP3** | DLG associated protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 58513 | NM_001258374,NM | **EPS15L1** | epidermal growth factor | protein_coding | 33 | 31 | 34 | 32 | 0.960 |
| 58515 | NM_021237 | **SELENOK** | selenoprotein K | protein_coding | 85 | 84 | 86 | 85 | 0.991 |
| 58516 | NM_001135811,NM | **SINHCAF** | SIN3-HDAC complex ass | protein_coding | 100 | 86 | 101 | 87 | 0.855 |
| 58517 | NM_021239,XM_01 | **RBM25** | RNA binding motif protei | protein_coding | 77 | 74 | 78 | 75 | 0.956 |
| 58524 | NM_021240 | **DMRT3** | doublesex and mab-3 rel | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 58525 | NM_001330395,NM | **WIZ** | WIZ zinc finger | protein_coding | 25 | 28 | 26 | 29 | 1.108 |
| 58526 | NM_001098790,NM | **MID1IP1** | MID1 interacting protein | protein_coding | 21 | 22 | 22 | 23 | 1.008 |
| 58527 | NM_021243,XM_01 | **ABRACL** | ABRA C-terminal like | protein_coding | 194 | 181 | 195 | 182 | 0.935 |
| 58528 | NM_021244,XM_00 | **RRAGD** | Ras related GTP binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58529 | NM_021245 | **MYOZ1** | myozenin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58530 | NM_021246 | **LY6G6D** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58531 | NM_021247 | **PRM3** | protamine 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58533 | NM_001366519,NM | **SNX6** | sorting nexin 6 | protein_coding | 51 | 42 | 52 | 43 | 0.830 |
| 58538 | NM_033066,XM_01 | **MPP4** | membrane palmitoylated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58985 | NM_021258,XM_01 | **IL22RA1** | interleukin 22 receptor su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 58986 | NM_021259,XM_02 | **PGAP6** | post-glycosylphosphatidy | protein_coding | 27 | 25 | 28 | 26 | 0.946 |
| 59067 | NM_001207006,NM | **IL21** | interleukin 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59082 | NM_021571 | **CARD18** | caspase recruitment dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59084 | NM_001290072,NM | **ENPP5** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59269 | NM_001127714,NM | **HIVEP3** | HIVEP zinc finger 3 | protein_coding | 5 | 3 | 6 | 4 | 0.759 |
| 59271 | NM_001286556,NM | **EVA1C** | eva-1 homolog C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59272 | NM_001371415,NM | **ACE2** | angiotensin I converting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59274 | NM_022566 | **TLNRD1** | talin rod domain containi | protein_coding | 31 | 31 | 32 | 32 | 1.011 |
| 59277 | NM_001329700,NM | **NTN4** | netrin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59283 | NM_031895 | **CACNG8** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59284 | NM_031896,XM_00 | **CACNG7** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59285 | NM_031897,NM_14 | **CACNG6** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59286 | NM_001048241,NM | **UBL5** | ubiquitin like 5 | protein_coding | 379 | 428 | 380 | 429 | 1.127 |
| 59307 | NM_001135053,NM | **SIGIRR** | single Ig and TIR domair | protein_coding | 15 | 16 | 16 | 17 | 1.044 |
| 59335 | NM_021619 | **PRDM12** | PR/SET domain 12 | protein_coding | 0 | 0 | 1 | 1 | 0.832 |
| 59336 | NM_021620 | **PRDM13** | PR/SET domain 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59338 | NM_001001974,NM | **PLEKHA1** | pleckstrin homology dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59339 | NM_021623,XM_01 | **PLEKHA2** | pleckstrin homology dor | protein_coding | 69 | 66 | 70 | 67 | 0.951 |
| 59340 | NM_001143828,NM | **HRH4** | histamine receptor H4 | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 59341 | NM_001177428,NM | **TRPV4** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59342 | NM_021626,XM_00 | **SCPEP1** | serine carboxypeptidase | protein_coding | 47 | 44 | 48 | 45 | 0.951 |
| 59343 | NM_021627,XM_00 | **SENP2** | SUMO specific peptidase | protein_coding | 56 | 51 | 57 | 52 | 0.915 |
| 59344 | NM_001165960,NM | **ALOXE3** | arachidonate lipoxygena | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 59345 | NM_021629,XM_00 | **GNB4** | G protein subunit beta 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59347 | gene-TPT1P8 | **TPT1P8** | tumor protein, translatior | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 59348 | NM_021632,XM_01 | **ZNF350** | zinc finger protein 350 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59349 | NM_001303051,NM | **KLHL12** | kelch like family member | protein_coding | 51 | 50 | 52 | 51 | 0.976 |
| 59350 | NM_001253727,NM | **RXFP1** | relaxin family peptide rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59351 | NM_021635 | **PBOV1** | prostate and breast canc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59352 | NM_001017403,NM | **LGR6** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 59353 | NM_021637 | **TMEM35A** | transmembrane protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60312 | NM_001134647,NM | **AFAP1** | actin filament associated | protein_coding | 1 | 0 | 2 | 1 | 0.803 |
| 60313 | NM_021639,XM_01 | **GPBP1L1** | GC-rich promoter bindin | protein_coding | 71 | 68 | 72 | 69 | 0.957 |
| 60314 | NM_021640 | **MYG1** | MYG1 exonuclease | protein_coding | 51 | 51 | 52 | 52 | 1.012 |
| 60343 | NM_001171132,NM | **FAM3A** | FAM3 metabolism regula | protein_coding | 16 | 18 | 17 | 19 | 1.116 |
| 60370 | NM_021732,XM_01 | **AVPI1** | arginine vasopressin ind | protein_coding | 1 | 2 | 2 | 3 | 1.227 |
| 60385 | NM_021733,XM_01 | **TSKS** | testis specific serine kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60386 | NM_001126121,NM | **SLC25A19** | solute carrier family 25 m | protein_coding | 81 | 80 | 82 | 81 | 0.992 |
| 60401 | NM_001199687,NM | **EDA2R** | ectodysplasin A2 recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60412 | NM_001037126,NM | **EXOC4** | exocyst complex compor | protein_coding | 25 | 23 | 26 | 24 | 0.918 |
| 60436 | NM_001199513,NM | **TGIF2** | TGFB induced factor hor | protein_coding | 16 | 15 | 17 | 16 | 0.939 |
| 60437 | NM_001348204,NM | **CDH26** | cadherin 26 | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 60439 | NR_001536 | **TTTY2** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 60467 | NR_026783 | **BPESC1** | blepharophimosis, epica | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 60468 | NM_001170794,NM | **BACH2** | BTB domain and CNC h | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 60481 | NM_001242828,NM | **ELOVL5** | ELOVL fatty acid elonga | protein_coding | 258 | 217 | 259 | 218 | 0.842 |
| 60482 | NM_001305005,NM | **SLC5A7** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60484 | NM_021817,XM_00 | **HAPLN2** | hyaluronan and proteogl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60485 | NM_021818,XM_01 | **SAV1** | salvador family WW dom | protein_coding | 10 | 8 | 11 | 9 | 0.890 |
| 60487 | NM_001031712,NM | **TRMT11** | tRNA methyltransferase | protein_coding | 18 | 15 | 19 | 16 | 0.851 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 60488 | NM_001190864,NM | **MRPS35** | mitochondrial ribosomal | protein_coding | 135 | 127 | 136 | 128 | 0.935 |
| 60489 | NM_001349436,NM | **APOBEC3G** | apolipoprotein B mRNA e | protein_coding | 587 | 541 | 588 | 542 | 0.922 |
| 60490 | NM_001301101,NM | **PPCDC** | phosphopantothenoylcys | protein_coding | 37 | 35 | 38 | 36 | 0.939 |
| 60491 | NM_001136039,NM | **NIF3L1** | NGG1 interacting factor | protein_coding | 61 | 61 | 62 | 62 | 0.989 |
| 60492 | NM_001286116,NM | **CCDC90B** | coiled-coil domain contai | protein_coding | 23 | 24 | 24 | 25 | 1.030 |
| 60493 | NM_021826 | **FASTKD5** | FAST kinase domains 5 | protein_coding | 30 | 28 | 31 | 29 | 0.916 |
| 60494 | NM_001156474,NM | **CCDC81** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 1.164 |
| 60495 | NM_001166244,NM | **HPSE2** | heparanase 2 (inactive) | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60496 | NM_015423,XM_02 | **AASDHPPT** | aminoadipate-semialdeh | protein_coding | 114 | 104 | 115 | 105 | 0.914 |
| 60506 | NM_001378477,NM | **NYX** | nyctalopin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60509 | NM_001035507,NM | **AGBL5** | ATP/GTP binding protein | protein_coding | 28 | 26 | 29 | 27 | 0.929 |
| 60526 | NM_001282719,NM | **LDAH** | lipid droplet associated h | protein_coding | 20 | 17 | 21 | 18 | 0.873 |
| 60528 | NM_001165962,NM | **ELAC2** | elaC ribonuclease Z 2 | protein_coding | 48 | 48 | 49 | 49 | 1.007 |
| 60529 | NM_021926 | **ALX4** | ALX homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60558 | NM_001345867,NM | **GUF1** | GUF1 homolog, GTPase | protein_coding | 70 | 65 | 71 | 66 | 0.924 |
| 60559 | NM_021928 | **SPCS3** | signal peptidase comple | protein_coding | 122 | 109 | 123 | 110 | 0.896 |
| 60560 | NM_001321881,NM | **NAA35** | N-alpha-acetyltransferas | protein_coding | 31 | 28 | 32 | 29 | 0.906 |
| 60561 | NM_001346599,NM | **RINT1** | RAD50 interactor 1 | protein_coding | 42 | 39 | 43 | 40 | 0.933 |
| 60592 | NM_001153446,NM | **SCOC** | short coiled-coil protein | protein_coding | 25 | 21 | 26 | 22 | 0.846 |
| 60598 | NM_022358,XM_01 | **KCNK15** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60625 | NM_001190809,NM | **DHX35** | DEAH-box helicase 35 | protein_coding | 32 | 30 | 33 | 31 | 0.944 |
| 60626 | NM_001286134,NM | **RIC8A** | RIC8 guanine nucleotide | protein_coding | 78 | 78 | 79 | 79 | 1.006 |
| 60672 | NM_021933,XM_00 | **MIIP** | migration and invasion in | protein_coding | 39 | 37 | 40 | 38 | 0.961 |
| 60673 | NM_001098673,NM | **ATG101** | autophagy related 101 | protein_coding | 61 | 64 | 62 | 65 | 1.037 |
| 60674 | NR_002578,NR_15 | **GAS5** | growth arrest specific 5 | lncRNA | 411 | 457 | 412 | 458 | 1.112 |
| 60675 | NM_001126128,NM | **PROK2** | prokineticin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60676 | NM_020318,NM_02 | **PAPPA2** | pappalysin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60677 | NM_001172684,NM | **CELF6** | CUGBP Elav-like family | protein_coding | 0 | 0 | 1 | 1 | 1.061 |
| 60678 | NM_021937,XM_00 | **EEFSEC** | eukaryotic elongation fac | protein_coding | 30 | 31 | 31 | 32 | 1.019 |
| 60680 | NM_001172673,NM | **CELF5** | CUGBP Elav-like family | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 60681 | NM_021939,XM_01 | **FKBP10** | FKBP prolyl isomerase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 60682 | NM_001044305,NM | **SMAP1** | small ArfGAP 1 | protein_coding | 40 | 35 | 41 | 36 | 0.894 |
| 60684 | NM_021942,NM_19 | **TRAPPC11** | trafficking protein particl | protein_coding | 18 | 18 | 19 | 19 | 1.021 |
| 60685 | NM_021943,XM_00 | **ZFAND3** | zinc finger AN1-type con | protein_coding | 26 | 26 | 27 | 27 | 0.988 |
| 60686 | NM_001130706,NM | **C14orf93** | chromosome 14 open rea | protein_coding | 5 | 5 | 6 | 6 | 1.058 |
| 63027 | NM_001286455,NM | **SLC22A23** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 63035 | NM_001184772,NM | **BCORL1** | BCL6 corepressor like 1 | protein_coding | 4 | 4 | 5 | 5 | 1.001 |
| 63036 | NM_033440 | **CELA2A** | chymotrypsin like elastas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63826 | NM_001304803,NM | **SRR** | serine racemase | protein_coding | 5 | 5 | 6 | 6 | 0.947 |
| 63827 | NM_021948,NM_19 | **BCAN** | brevican | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63874 | NM_022060,XM_00 | **ABHD4** | abhydrolase domain con | protein_coding | 3 | 3 | 4 | 4 | 1.106 |
| 63875 | NM_022061 | **MRPL17** | mitochondrial ribosomal | protein_coding | 67 | 56 | 68 | 57 | 0.840 |
| 63876 | NM_001382323,NM | **PKNOX2** | PBX/knotted 1 homeobo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63877 | NM_001134672,NM | **FAM204A** | family with sequence sim | protein_coding | 13 | 11 | 14 | 12 | 0.879 |
| 63891 | NM_022064,NR_13 | **RNF123** | ring finger protein 123 | protein_coding | 14 | 12 | 15 | 13 | 0.906 |
| 63892 | NM_001083953,NM | **THADA** | THADA armadillo repeat | protein_coding | 18 | 16 | 19 | 17 | 0.861 |
| 63893 | NM_022066,XM_00 | **UBE2O** | ubiquitin conjugating en | protein_coding | 29 | 30 | 30 | 31 | 1.016 |
| 63894 | NM_001193314,NM | **VIPAS39** | VPS33B interacting prote | protein_coding | 22 | 23 | 23 | 24 | 1.059 |
| 63895 | NM_001378183,NM | **PIEZO2** | piezo type mechanosens | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 63897 | NM_022070 | **HEATR6** | HEAT repeat containing | protein_coding | 8 | 8 | 9 | 9 | 1.049 |
| 63898 | NM_001174159,NM | **SH2D4A** | SH2 domain containing 4 | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 63899 | NM_022072,XM_02 | **NSUN3** | NOP2/Sun RNA methyltr | protein_coding | 11 | 11 | 12 | 12 | 1.017 |
| 63901 | NM_001142519,NM | **FAM111A** | family with sequence sim | protein_coding | 55 | 53 | 56 | 54 | 0.960 |
| 63904 | NM_022076 | **DUSP21** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63905 | NM_001003897,NM | **MANBAL** | mannosidase beta like | protein_coding | 16 | 14 | 17 | 15 | 0.860 |
| 63906 | NM_022078 | **GPATCH3** | G-patch domain containi | protein_coding | 23 | 22 | 24 | 23 | 0.943 |
| 63908 | NM_001283018,NM | **NAPB** | NSF attachment protein | protein_coding | 9 | 7 | 10 | 8 | 0.818 |
| 63910 | NM_001302643,NM | **SLC17A9** | solute carrier family 17 m | protein_coding | 17 | 18 | 18 | 19 | 1.022 |
| 63914 | NR_026784 | **LINC01590** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.271 |
| 63915 | NM_001199322,NM | **BLOC1S5** | biogenesis of lysosomal | protein_coding | 29 | 29 | 30 | 30 | 0.984 |
| 63916 | NM_001318253,NM | **ELMO2** | engulfment and cell moti | protein_coding | 40 | 37 | 41 | 38 | 0.920 |
| 63917 | NM_001304514,NM | **GALNT11** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63920 | NM_001303251,NM | **ZBED8** | zinc finger BED-type con | protein_coding | 4 | 4 | 5 | 5 | 0.987 |
| 63922 | NM_022092,XM_00 | **CHTF18** | chromosome transmissio | protein_coding | 27 | 28 | 28 | 29 | 1.041 |
| 63923 | NM_022093,XM_01 | **TNN** | tenascin N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63924 | NM_001199551,NM | **CIDEC** | cell death inducing DFF/ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63925 | NM_022095,XM_00 | **ZNF335** | zinc finger protein 335 | protein_coding | 32 | 32 | 33 | 33 | 1.013 |
| 63926 | NM_001303472,NM | **ANKEF1** | ankyrin repeat and EF-h | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 63928 | NM_022097 | **CHP2** | calcineurin like EF-hand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63929 | NM_001204827,NM | **XPNPEP3** | X-prolyl aminopeptidase | protein_coding | 11 | 10 | 12 | 11 | 0.905 |
| 63930 | NR_033370 | **LINC01749** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 63931 | NM_022100,NR_03 | **MRPS14** | mitochondrial ribosomal | protein_coding | 35 | 36 | 36 | 37 | 1.027 |
| 63932 | NM_001170569,NM | **CXorf56** | chromosome X open rea | protein_coding | 34 | 33 | 35 | 34 | 0.987 |
| 63933 | NM_001031713,XM | **MCUR1** | mitochondrial calcium un | protein_coding | 29 | 30 | 30 | 31 | 1.011 |
| 63934 | NM_001321355,NM | **ZNF667** | zinc finger protein 667 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63935 | NM_022104,XM_01 | **PCIF1** | PDX1 C-terminal inhibitir | protein_coding | 41 | 47 | 42 | 48 | 1.127 |
| 63939 | NM_001190826,NM | **FAM217B** | family with sequence sim | protein_coding | 28 | 24 | 29 | 25 | 0.854 |
| 63940 | NM_001276501,NM | **GPSM3** | G protein signaling modu | protein_coding | 145 | 154 | 146 | 155 | 1.065 |
| 63941 | NM_031231,NM_03 | **NECAB3** | N-terminal EF-hand calc | protein_coding | 16 | 15 | 17 | 16 | 0.950 |
| 63943 | NM_022110 | **FKBPL** | FKBP prolyl isomerase li | protein_coding | 6 | 8 | 7 | 9 | 1.195 |
| 63946 | NM_001040283,XM | **DMRTC2** | DMRT like family C2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63947 | NM_033053,XM_00 | **DMRTC1** | DMRT like family C1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63948 | NM_033067 | **DMRTB1** | DMRT like family B with | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63950 | NM_032110,XM_01 | **DMRTA2** | DMRT like family A2 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 63951 | NM_022160 | **DMRTA1** | DMRT like family A1 | protein_coding | 0 | 0 | 1 | 1 | 1.043 |
| 63967 | NM_001190481,NM | **CLSPN** | claspin | protein_coding | 98 | 99 | 99 | 100 | 1.017 |
| 63970 | NM_001195194,NM | **TP53AIP1** | tumor protein p53 regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63971 | NM_001105566,NM | **KIF13A** | kinesin family member 1 | protein_coding | 0 | 0 | 1 | 1 | 0.914 |
| 63973 | NM_024019 | **NEUROG2** | neurogenin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 63974 | NM_022728 | **NEUROD6** | neuronal differentiation 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63976 | NM_022114,NM_19 | **PRDM16** | PR/SET domain 16 | protein_coding | 18 | 20 | 19 | 21 | 1.114 |
| 63977 | NM_001040424,NM | **PRDM15** | PR/SET domain 15 | protein_coding | 5 | 4 | 6 | 5 | 0.911 |
| 63978 | NM_024504,XM_01 | **PRDM14** | PR/SET domain 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 63979 | NM_001042762,NM | **FIGNL1** | fidgetin like 1 | protein_coding | 8 | 7 | 9 | 8 | 0.823 |
| 63982 | NM_001313726,NM | **ANO3** | anoctamin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64002 | NR_002769,NR_15 | **PCGEM1** | PCGEM1 prostate-specif | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 64005 | NM_033054,XM_01 | **MYO1G** | myosin IG | protein_coding | 94 | 93 | 95 | 94 | 0.986 |
| 64061 | NM_022117,XM_00 | **TSPYL2** | TSPY like 2 | protein_coding | 22 | 22 | 23 | 23 | 0.997 |
| 64062 | NM_001286631,NM | **RBM26** | RNA binding motif protei | protein_coding | 70 | 63 | 71 | 64 | 0.894 |
| 64063 | NM_022119,XM_00 | **PRSS22** | serine protease 22 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64064 | NM_022120 | **OXCT2** | 3-oxoacid CoA-transfera | protein_coding | 0 | 0 | 1 | 1 | 1.118 |
| 64065 | NM_022121,XM_02 | **PERP** | p53 apoptosis effector re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64066 | NM_022122,XM_01 | **MMP27** | matrix metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64067 | NM_001164749,NM | **NPAS3** | neuronal PAS domain pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64072 | NM_001171930,NM | **CDH23** | cadherin related 23 | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 64073 | NM_001317801,NM | **C19orf33** | chromosome 19 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64077 | NM_001167880,NM | **LHPP** | phospholysine phosphoh | protein_coding | 1 | 1 | 2 | 2 | 1.261 |
| 64078 | NM_001199633,NM | **SLC28A3** | solute carrier family 28 m | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 64080 | NM_001287580,NM | **RBKS** | ribokinase | protein_coding | 8 | 10 | 9 | 11 | 1.260 |
| 64081 | NM_001033083,NM | **PBLD** | phenazine biosynthesis l | protein_coding | 1 | 1 | 2 | 2 | 0.816 |
| 64083 | NM_022130,XM_01 | **GOLPH3** | golgi phosphoprotein 3 | protein_coding | 95 | 84 | 96 | 85 | 0.890 |
| 64084 | NM_022131,XM_01 | **CLSTN2** | calsyntenin 2 | protein_coding | 6 | 6 | 7 | 7 | 1.013 |
| 64087 | NM_001363147,NM | **MCCC2** | methylcrotonoyl-CoA car | protein_coding | 95 | 96 | 96 | 97 | 1.012 |
| 64089 | NM_001348189,NM | **SNX16** | sorting nexin 16 | protein_coding | 3 | 2 | 4 | 3 | 0.958 |
| 64090 | NM_022134 | **GAL3ST2** | galactose-3-O-sulfotrans | protein_coding | 0 | 0 | 1 | 1 | 1.135 |
| 64091 | NM_001308333,NM | **POPDC2** | popeye domain containir | protein_coding | 0 | 1 | 1 | 2 | 1.013 |
| 64092 | NM_001256370,NM | **SAMSN1** | SAM domain, SH3 doma | protein_coding | 145 | 126 | 146 | 127 | 0.870 |
| 64093 | NM_001034852,NM | **SMOC1** | SPARC related modular | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64094 | NM_001166412,NM | **SMOC2** | SPARC related modular | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64096 | NM_022139,NM_14 | **GFRA4** | GDNF family receptor al | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64097 | NM_001347887,NM | **EPB41L4A** | erythrocyte membrane p | protein_coding | 0 | 0 | 1 | 1 | 0.908 |
| 64098 | NM_001137605,NM | **PARVG** | parvin gamma | protein_coding | 90 | 89 | 91 | 90 | 0.991 |
| 64100 | NM_022142,XM_01 | **ELSPBP1** | epididymal sperm bindin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64101 | NM_022143,XM_01 | **LRRC4** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64102 | NM_022144 | **TNMD** | tenomodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64105 | NM_001267038,NM | **CENPK** | centromere protein K | protein_coding | 92 | 78 | 93 | 79 | 0.844 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 64106 | NM_022146 | **NPFFR1** | neuropeptide FF recepto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64108 | NM_022147 | **RTP4** | receptor transporter prot | protein_coding | 21 | 24 | 22 | 25 | 1.124 |
| 64109 | NM_001012288,NM | **CRLF2** | cytokine receptor like fac | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 64110 | NM_022149 | **MAGEF1** | MAGE family member F1 | protein_coding | 41 | 39 | 42 | 40 | 0.950 |
| 64111 | NM_022150 | **NPVF** | neuropeptide VF precurs | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64112 | NM_022151 | **MOAP1** | modulator of apoptosis 1 | protein_coding | 30 | 32 | 31 | 33 | 1.064 |
| 64114 | NM_001321427,NM | **TMBIM1** | transmembrane BAX inh | protein_coding | 1 | 0 | 2 | 1 | 0.862 |
| 64115 | NM_022153 | **VSIR** | V-set immunoregulatory | protein_coding | 29 | 32 | 30 | 33 | 1.104 |
| 64116 | NM_001135146,NM | **SLC39A8** | solute carrier family 39 m | protein_coding | 74 | 65 | 75 | 66 | 0.878 |
| 64118 | NM_022156,XM_00 | **DUS1L** | dihydrouridine synthase | protein_coding | 141 | 155 | 142 | 156 | 1.097 |
| 64121 | NM_001271851,NM | **RRAGC** | Ras related GTP binding | protein_coding | 25 | 22 | 26 | 23 | 0.861 |
| 64122 | NM_022158,XM_02 | **FN3K** | fructosamine 3 kinase | protein_coding | 1 | 0 | 2 | 1 | 0.729 |
| 64123 | NM_022159 | **ADGRL4** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64127 | NM_001293557,NM | **NOD2** | nucleotide binding oligor | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 64129 | NM_001204414,NM | **TINAGL1** | tubulointerstitial nephritis | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64130 | NM_001308419,NM | **LIN7B** | lin-7 homolog B, crumbs | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 64131 | NM_022166,XM_01 | **XYLT1** | xylosyltransferase 1 | protein_coding | 59 | 43 | 60 | 44 | 0.726 |
| 64132 | NM_022167,NR_11 | **XYLT2** | xylosyltransferase 2 | protein_coding | 16 | 18 | 17 | 19 | 1.120 |
| 64135 | NM_022168 | **IFIH1** | interferon induced with h | protein_coding | 47 | 42 | 48 | 43 | 0.897 |
| 64137 | NM_001142505,NM | **ABCG4** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64145 | NM_001302378,NM | **RBSN** | rabenosyn, RAB effector | protein_coding | 3 | 3 | 4 | 4 | 1.000 |
| 64146 | NM_022341 | **PDF** | peptide deformylase, mit | protein_coding | 10 | 9 | 11 | 10 | 0.906 |
| 64147 | NM_001134878,NM | **KIF9** | kinesin family member 9 | protein_coding | 6 | 11 | 7 | 12 | 1.664 |
| 64149 | NM_022344,XM_00 | **C17orf75** | chromosome 17 open re | protein_coding | 16 | 14 | 17 | 15 | 0.881 |
| 64150 | NR_152588,NR_15 | **DIO3OS** | DIO3 opposite strand up | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 64151 | NM_022346,NR_07 | **NCAPG** | non-SMC condensin I co | protein_coding | 81 | 71 | 82 | 72 | 0.880 |
| 64167 | NM_00130140,NM | **ERAP2** | endoplasmic reticulum a | protein_coding | 255 | 223 | 256 | 224 | 0.873 |
| 64168 | NM_022351,XM_01 | **NECAB1** | N-terminal EF-hand calc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64170 | NM_052813,NM_05 | **CARD9** | caspase recruitment dor | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 64172 | NM_001354347,NM | **OSGEPL1** | O-sialoglycoprotein endc | protein_coding | 14 | 15 | 15 | 16 | 1.049 |
| 64174 | NM_001324159,NM | **DPEP2** | dipeptidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64175 | NM_001146289,NM | **P3H1** | prolyl 3-hydroxylase 1 | protein_coding | 22 | 21 | 23 | 22 | 0.970 |
| 64180 | NM_001129758,NM | **DPEP3** | dipeptidase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64184 | NM_022360 | **EDDM3B** | epididymal protein 3B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64207 | NM_024496 | **IRF2BPL** | interferon regulatory fact | protein_coding | 13 | 11 | 14 | 12 | 0.825 |
| 64208 | NM_022361,NR_02 | **POPDC3** | popeye domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.144 |
| 64210 | NM_001289403,NM | **MMS19** | MMS19 homolog, cytoso | protein_coding | 41 | 41 | 42 | 42 | 1.012 |
| 64211 | NM_022363 | **LHX5** | LIM homeobox 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64215 | NM_022365,XM_01 | **DNAJC1** | DnaJ heat shock protein | protein_coding | 13 | 16 | 14 | 17 | 1.213 |
| 64216 | NM_022366,XM_01 | **TFB2M** | transcription factor B2, m | protein_coding | 38 | 34 | 39 | 35 | 0.896 |
| 64218 | NM_001193300,NM | **SEMA4A** | semaphorin 4A | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 64219 | NM_001032396,NM | **PJA1** | praja ring finger ubiquitir | protein_coding | 24 | 22 | 25 | 23 | 0.938 |
| 64220 | NM_001142617,NM | **STRA6** | signaling receptor and tr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64221 | NM_001370356,NM | **ROBO3** | roundabout guidance rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64222 | NM_022371 | **TOR3A** | torsin family 3 member A | protein_coding | 139 | 142 | 140 | 143 | 1.025 |
| 64223 | NM_001199173,NM | **MLST8** | MTOR associated protein | protein_coding | 68 | 79 | 69 | 80 | 1.171 |
| 64224 | NM_022373,XM_00 | **HERPUD2** | HERPUD family member | protein_coding | 9 | 9 | 10 | 10 | 1.036 |
| 64225 | NM_001135673,NM | **ATL2** | atlastin GTPase 2 | protein_coding | 37 | 32 | 38 | 33 | 0.867 |
| 64231 | NM_001247999,NM | **MS4A6A** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64232 | NM_023945 | **MS4A5** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64236 | NM_001368120,NM | **PDLIM2** | PDZ and LIM domain 2 | protein_coding | 53 | 54 | 54 | 55 | 1.020 |
| 64240 | NM_022436,XM_00 | **ABCG5** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64241 | NM_001357321,NM | **ABCG8** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64282 | NM_001040284,NM | **TENT4B** | terminal nucleotidyltrans | protein_coding | 9 | 9 | 10 | 10 | 0.911 |
| 64283 | NM_001080479,NM | **ARHGEF28** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64284 | NM_022449,NR_03 | **RAB17** | RAB17, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64285 | NM_022450,XM_00 | **RHBDF1** | rhomboid 5 homolog 1 | protein_coding | 0 | 0 | 1 | 1 | 1.086 |
| 64288 | NM_001135215,NM | **ZSCAN31** | zinc finger and SCAN do | protein_coding | 1 | 0 | 2 | 1 | 0.641 |
| 64318 | NM_022451,XM_01 | **NOC3L** | NOC3 like DNA replicatic | protein_coding | 56 | 52 | 57 | 53 | 0.920 |
| 64319 | NM_001105079,XM | **FBRS** | fibrosin | protein_coding | 50 | 50 | 51 | 51 | 0.997 |
| 64320 | NM_022453,XM_01 | **RNF25** | ring finger protein 25 | protein_coding | 57 | 62 | 58 | 63 | 1.090 |
| 64321 | NM_022454 | **SOX17** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64324 | NM_001365684,NM | **NSD1** | nuclear receptor binding | protein_coding | 45 | 38 | 46 | 39 | 0.845 |
| 64326 | NM_001001740,NM | **COP1** | COP1 E3 ubiquitin ligase | protein_coding | 28 | 29 | 29 | 30 | 1.029 |
| 64327 | NM_001350953,NM | **LMBR1** | limb development memb | protein_coding | 24 | 18 | 25 | 19 | 0.762 |
| 64328 | NM_001372061,NM | **XPO4** | exportin 4 | protein_coding | 36 | 33 | 37 | 34 | 0.907 |
| 64332 | NM_001005474,NM | **NFKBIZ** | NFKB inhibitor zeta | protein_coding | 7 | 7 | 8 | 8 | 0.999 |
| 64333 | NM_001080156,NM | **ARHGAP9** | Rho GTPase activating p | protein_coding | 86 | 81 | 87 | 82 | 0.940 |
| 64342 | NM_022460,XM_01 | **HS1BP3** | HCLS1 binding protein 3 | protein_coding | 5 | 4 | 6 | 5 | 0.932 |
| 64343 | NM_001134432,NM | **AZI2** | 5-azacytidine induced 2 | protein_coding | 31 | 29 | 32 | 30 | 0.934 |
| 64344 | NM_022462,NM_15 | **HIF3A** | hypoxia inducible factor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64359 | NM_001205319,NM | **NXN** | nucleoredoxin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64374 | NM_001037633,NM | **SIL1** | SIL1 nucleotide exchang | protein_coding | 10 | 10 | 11 | 11 | 1.030 |
| 64375 | NM_001351089,NM | **IKZF4** | IKAROS family zinc finge | protein_coding | 4 | 3 | 5 | 4 | 0.789 |
| 64376 | NM_001271840,NM | **IKZF5** | IKAROS family zinc finge | protein_coding | 20 | 17 | 21 | 18 | 0.879 |
| 64377 | NM_001127895,NM | **CHST8** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64386 | NM_022468,XM_01 | **MMP25** | matrix metallopeptidase 2 | protein_coding | 19 | 19 | 20 | 20 | 0.982 |
| 64388 | NM_022469,XM_00 | **GREM2** | gremlin 2, DAN family BM | protein_coding | 9 | 8 | 10 | 9 | 0.958 |
| 64393 | NM_001375824,NM | **ZMAT3** | zinc finger matrin-type 3 | protein_coding | 3 | 3 | 4 | 4 | 0.832 |
| 64395 | NM_178439,XM_01 | **GMCL1** | germ cell-less 1, sperma | protein_coding | 44 | 38 | 45 | 39 | 0.880 |
| 64396 | NM_001358008 | **GMCL2** | germ cell-less 2, sperma | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 64397 | NM_001284306,NM | **ZNF106** | zinc finger protein 106 | protein_coding | 39 | 30 | 40 | 31 | 0.759 |
| 64398 | NM_001256550,NM | **MPP5** | membrane palmitoylated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64399 | NM_022475,XM_00 | **HHIP** | hedgehog interacting pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64400 | NM_001012398,NM | **AKTIP** | AKT interacting protein | protein_coding | 23 | 21 | 24 | 22 | 0.889 |
| 64403 | NM_022478,NM_14 | **CDH24** | cadherin 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64405 | NM_021248,XM_01 | **CDH22** | cadherin 22 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64407 | NM_130782,XM_01 | **RGS18** | regulator of G protein sig | protein_coding | 3 | 2 | 4 | 3 | 0.737 |
| 64409 | NM_022479,XM_01 | **GALNT17** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64410 | NM_022480 | **KLHL25** | kelch like family member | protein_coding | 5 | 6 | 6 | 7 | 1.042 |
| 64411 | NM_022481,XM_00 | **ARAP3** | ArfGAP with RhoGAP do | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 64412 | NM_001317012,NM | **GZF1** | GDNF inducible zinc finç | protein_coding | 14 | 16 | 15 | 17 | 1.134 |
| 64417 | NM_001377394,NM | **TMEM267** | transmembrane protein 2 | protein_coding | 14 | 12 | 15 | 13 | 0.891 |
| 64418 | NM_001287497,NM | **TMEM168** | transmembrane protein 1 | protein_coding | 12 | 10 | 13 | 11 | 0.877 |
| 64419 | NM_001077525,NM | **MTMR14** | myotubularin related pro | protein_coding | 34 | 36 | 35 | 37 | 1.056 |
| 64420 | NM_001282640,NM | **SUSD1** | sushi domain containing | protein_coding | 19 | 19 | 20 | 20 | 1.022 |
| 64421 | NM_001033855,NM | **DCLRE1C** | DNA cross-link repair 1C | protein_coding | 11 | 10 | 12 | 11 | 0.907 |
| 64422 | NM_001278712,NM | **ATG3** | autophagy related 3 | protein_coding | 178 | 181 | 179 | 182 | 1.016 |
| 64423 | NM_001031714,NM | **INF2** | inverted formin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64425 | NM_001282766,NM | **POLR1E** | RNA polymerase I subun | protein_coding | 59 | 58 | 60 | 59 | 0.983 |
| 64426 | NM_022491,XM_01 | **SUDS3** | SDS3 homolog, SIN3A c | protein_coding | 30 | 26 | 31 | 27 | 0.852 |
| 64427 | NM_001376129,NM | **TTC31** | tetratricopeptide repeat c | protein_coding | 21 | 21 | 22 | 22 | 1.002 |
| 64428 | NM_001304799,NM | **CIAO3** | cytosolic iron-sulfur asse | protein_coding | 29 | 32 | 30 | 33 | 1.074 |
| 64429 | NM_001303134,NM | **ZDHHC6** | zinc finger DHHC-type pa | protein_coding | 47 | 48 | 48 | 49 | 1.022 |
| 64430 | NM_001330177,NM | **PCNX4** | pecanex 4 | protein_coding | 20 | 9 | 21 | 10 | 0.461 |
| 64431 | NM_022496,NR_04 | **ACTR6** | actin related protein 6 | protein_coding | 28 | 22 | 29 | 23 | 0.793 |
| 64432 | NM_022497,NR_13 | **MRPS25** | mitochondrial ribosomal | protein_coding | 32 | 27 | 33 | 28 | 0.855 |
| 64433 | NR_024119 | **LINC00244** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 64434 | NM_001353366,NM | **NOM1** | nucleolar protein with MI | protein_coding | 27 | 26 | 28 | 27 | 0.958 |
| 64446 | NM_001172810,NM | **DNAI2** | dynein axonemal interme | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64478 | NM_033225,XM_01 | **CSMD1** | CUB and Sushi multiple | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64493 | NR_024121 | **LINC00235** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.833 |
| 64499 | NM_024164 | **TPSB2** | tryptase beta 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64506 | NM_001079533,NM | **CPEB1** | cytoplasmic polyadenyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64518 | NM_031898,XM_01 | **TEKT3** | tektin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64577 | NM_001193480,NM | **ALDH8A1** | aldehyde dehydrogenase | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 64579 | NM_022569,XM_01 | **NDST4** | N-deacetylase and N-sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64581 | NM_022570,NM_19 | **CLEC7A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 64582 | NM_022571,XM_01 | **GPR135** | G protein-coupled recep | protein_coding | 2 | 2 | 3 | 3 | 0.793 |
| 64591 | NM_022573,XM_00 | **TSPY2** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64593 | NR_001573 | **RBMY3AP** | RNA binding motif protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 64595 | NR_001545 | **TTTY15** | testis-specific transcript, | lncRNA | 8 | 6 | 9 | 7 | 0.875 |
| 64596 | gene-PSMA6P1 | **PSMA6P1** | proteasome subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 64598 | NM_001040097,NM | **MOSPD3** | motile sperm domain cor | protein_coding | 8 | 8 | 9 | 9 | 1.000 |
| 64599 | NM_001375759,NM | **GIGYF1** | GRB10 interacting GYF | protein_coding | 16 | 14 | 17 | 15 | 0.863 |
| 64600 | NM_001360869,NM | **PLA2G2F** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 64601 | NM_022575,NM_08 | **VPS16** | VPS16 core subunit of C | protein_coding | 36 | 35 | 37 | 36 | 0.972 |
| 64641 | NM_022659 | **EBF2** | EBF transcription factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64645 | NM_033055,XM_00 | **MFSD14A** | major facilitator superfan | protein_coding | 89 | 79 | 90 | 80 | 0.887 |
| 64648 | NM_032417 | **SPANXD** | SPANX family member D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64651 | NM_001320559,NM | **CSRNP1** | cysteine and serine rich | protein_coding | 4 | 4 | 5 | 5 | 1.005 |
| 64663 | NM_022661 | **SPANXC** | SPANX family member C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64682 | NM_022662,XM_01 | **ANAPC1** | anaphase promoting con | protein_coding | 62 | 51 | 63 | 52 | 0.829 |
| 64689 | NM_001278789,NM | **GORASP1** | golgi reassembly stackin | protein_coding | 2 | 1 | 3 | 2 | 0.876 |
| 64693 | NM_172241 | **CTAGE1** | cutaneous T cell lympho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64699 | NM_001256317,NM | **TMPRSS3** | transmembrane serine p | protein_coding | 6 | 6 | 7 | 7 | 1.018 |
| 64708 | NM_001282949,NM | **COPS7B** | COP9 signalosome subu | protein_coding | 88 | 89 | 89 | 90 | 1.013 |
| 64710 | NM_022731,XM_00 | **NUCKS1** | nuclear casein kinase an | protein_coding | 148 | 132 | 149 | 133 | 0.897 |
| 64711 | NM_001009606,XM | **HS3ST6** | heparan sulfate-glucosa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64714 | NM_006849 | **PDIA2** | protein disulfide isomera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64717 | rna-TRG-CCC2-2 | **TRG-CCC2-2** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 64718 | NM_001037125,NM | **UNKL** | unk like zinc finger | protein_coding | 2 | 3 | 3 | 4 | 1.169 |
| 64726 | gene-RPS20P2 | **RPS20P2** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 64735 | NR_033914 | **LINC00254** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 64743 | NM_001166426,NM | **WDR13** | WD repeat domain 13 | protein_coding | 5 | 7 | 6 | 8 | 1.277 |
| 64744 | NM_001198978,NM | **SMAP2** | small ArfGAP2 | protein_coding | 62 | 56 | 63 | 57 | 0.910 |
| 64745 | NM_001029991,NM | **METTL17** | methyltransferase like 17 | protein_coding | 61 | 64 | 62 | 65 | 1.045 |
| 64746 | NM_022735 | **ACBD3** | acyl-CoA binding domair | protein_coding | 37 | 33 | 38 | 34 | 0.902 |
| 64747 | NM_001167903,NM | **MFSD1** | major facilitator superfan | protein_coding | 8 | 8 | 9 | 9 | 1.048 |
| 64748 | NM_001170635,NM | **PLPPR2** | phospholipid phosphatas | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 64750 | NM_022739,XM_00 | **SMURF2** | SMAD specific E3 ubiqui | protein_coding | 20 | 16 | 21 | 17 | 0.831 |
| 64753 | NM_001201372,NM | **CCDC136** | coiled-coil domain contai | protein_coding | 7 | 6 | 8 | 7 | 0.833 |
| 64754 | NM_001167740,NM | **SMYD3** | SET and MYND domain | protein_coding | 27 | 22 | 28 | 23 | 0.810 |
| 64755 | NM_022744,XM_01 | **RUSF1** | RUS family member 1 | protein_coding | 45 | 46 | 46 | 47 | 1.012 |
| 64756 | NM_001042546,NM | **ATPAF1** | ATP synthase mitochond | protein_coding | 32 | 32 | 33 | 33 | 0.974 |
| 64757 | NM_022746,XM_01 | **MTARC1** | mitochondrial amidoxime | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64759 | NM_022748,XM_01 | **TNS3** | tensin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64760 | NM_001354250,NM | **FAM160B2** | family with sequence sim | protein_coding | 1 | 2 | 2 | 3 | 1.359 |
| 64761 | NM_022750,NR_13 | **PARP12** | poly(ADP-ribose) polyme | protein_coding | 43 | 44 | 44 | 45 | 1.020 |
| 64762 | NM_001242409,NM | **GAREM1** | GRB2 associated regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64763 | NM_001330519,NM | **ZNF574** | zinc finger protein 574 | protein_coding | 27 | 31 | 28 | 32 | 1.138 |
| 64764 | NM_001253775,NM | **CREB3L2** | cAMP responsive elemer | protein_coding | 7 | 6 | 8 | 7 | 0.877 |
| 64766 | NM_001256121,NM | **S100PBP** | S100P binding protein | protein_coding | 54 | 52 | 55 | 53 | 0.965 |
| 64768 | NM_022755,XM_01 | **IPPK** | inositol-pentakisphospha | protein_coding | 17 | 16 | 18 | 17 | 0.941 |
| 64769 | NM_001270875,NM | **MEAF6** | MYST/Esa1 associated f | protein_coding | 39 | 38 | 40 | 39 | 0.977 |
| 64770 | NM_001308317,NM | **CCDC14** | coiled-coil domain contai | protein_coding | 29 | 27 | 30 | 28 | 0.938 |
| 64771 | NM_022758,NM_02 | **ILRUN** | inflammation and lipid re | protein_coding | 124 | 112 | 125 | 113 | 0.904 |
| 64772 | NM_001042573,XM | **ENGASE** | endo-beta-N-acetylgluco | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64773 | NM_001271168,NM | **PCED1A** | PC-esterase domain con | protein_coding | 20 | 23 | 21 | 24 | 1.184 |
| 64776 | NM_001330371,NM | **C11orf1** | chromosome 11 open rea | protein_coding | 36 | 35 | 37 | 36 | 0.974 |
| 64777 | NM_001288794,NM | **RMND5B** | required for meiotic nucl | protein_coding | 27 | 27 | 28 | 28 | 1.022 |
| 64778 | NM_001135095,NM | **FNDC3B** | fibronectin type III domai | protein_coding | 13 | 12 | 14 | 13 | 0.918 |
| 64779 | NM_001159377,NM | **MTHFSD** | methenyltetrahydrofolate | protein_coding | 11 | 13 | 12 | 14 | 1.109 |
| 64780 | NM_001159291,NM | **MICAL1** | microtubule associated m | protein_coding | 8 | 9 | 9 | 10 | 1.078 |
| 64781 | NM_022766,XM_01 | **CERK** | ceramide kinase | protein_coding | 4 | 4 | 5 | 5 | 0.907 |
| 64782 | NM_022767,XM_00 | **AEN** | apoptosis enhancing nuc | protein_coding | 78 | 75 | 79 | 76 | 0.956 |
| 64783 | NM_001201545,NM | **RBM15** | RNA binding motif protei | protein_coding | 34 | 28 | 35 | 29 | 0.838 |
| 64784 | NM_001042574,NM | **CRTC3** | CREB regulated transcri | protein_coding | 17 | 14 | 18 | 15 | 0.846 |
| 64785 | NM_001126129,NM | **GINS3** | GINS complex subunit 3 | protein_coding | 47 | 46 | 48 | 47 | 0.972 |
| 64786 | NM_001146213,NM | **TBC1D15** | TBC1 domain family mer | protein_coding | 14 | 10 | 15 | 11 | 0.766 |
| 64787 | NM_022772,XM_01 | **EPS8L2** | EPS8 like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 64788 | NM_001352017,NM | **LMF1** | lipase maturation factor 1 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 64789 | NM_001346946,NM | **EXO5** | exonuclease 5 | protein_coding | 7 | 6 | 8 | 7 | 0.819 |
| 64792 | NM_001130820,NM | **IFT22** | intraflagellar transport 22 | protein_coding | 3 | 3 | 4 | 4 | 0.943 |
| 64793 | NM_001281517,NM | **CEP85** | centrosomal protein 85 | protein_coding | 41 | 36 | 42 | 37 | 0.886 |
| 64794 | NM_001322340,NM | **DDX31** | DEAD-box helicase 31 | protein_coding | 26 | 25 | 27 | 26 | 0.959 |
| 64795 | NM_022780 | **RMND5A** | required for meiotic nucl | protein_coding | 37 | 33 | 38 | 34 | 0.892 |
| 64798 | NM_001283012,NM | **DEPTOR** | DEP domain containing I | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 64799 | NM_001031715,NM | **IQCH** | IQ motif containing H | protein_coding | 2 | 2 | 3 | 3 | 0.936 |
| 64800 | NM_022785,NM_19 | **EFCAB6** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 64801 | NM_001346992,NM | **ARV1** | ARV1 homolog, fatty acic | protein_coding | 54 | 51 | 55 | 52 | 0.951 |
| 64802 | NM_001297778,NM | **NMNAT1** | nicotinamide nucleotide a | protein_coding | 9 | 8 | 10 | 9 | 0.903 |
| 64805 | NM_022788,NM_17 | **P2RY12** | purinergic receptor P2Y1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64806 | NM_022789,NM_17 | **IL25** | interleukin 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64816 | NM_001278921,NM | **CYP3A43** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64834 | NM_001256399,NM | **ELOVL1** | ELOVL fatty acid elonga | protein_coding | 138 | 153 | 139 | 154 | 1.103 |
| 64837 | NM_001134774,NM | **KLC2** | kinesin light chain 2 | protein_coding | 51 | 48 | 52 | 49 | 0.958 |
| 64838 | NM_022823,XM_00 | **FNDC4** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64839 | NM_001163315,XM | **FBXL17** | F-box and leucine rich re | protein_coding | 7 | 7 | 8 | 8 | 0.915 |
| 64840 | NM_001282167,NM | **PORCN** | porcupine O-acyltransfer | protein_coding | 35 | 35 | 36 | 36 | 1.010 |
| 64841 | NM_198066,XM_00 | **GNPNAT1** | glucosamine-phosphate | protein_coding | 53 | 47 | 54 | 48 | 0.895 |
| 64843 | NM_145805 | **ISL2** | ISL LIM homeobox 2 | protein_coding | 4 | 4 | 5 | 5 | 0.935 |
| 64844 | NM_001282805,NM | **MARCHF7** | membrane associated rir | protein_coding | 58 | 49 | 59 | 50 | 0.848 |
| 64847 | NM_001258372,NM | **SPATA20** | spermatogenesis associa | protein_coding | 12 | 14 | 13 | 15 | 1.138 |
| 64848 | NM_001345975,NM | **YTHDC2** | YTH domain containing 2 | protein_coding | 25 | 23 | 26 | 24 | 0.892 |
| 64849 | NM_001011554,NM | **SLC13A3** | solute carrier family 13 m | protein_coding | 1 | 1 | 2 | 2 | 1.074 |
| 64850 | NM_001146590,NM | **ETNPPL** | ethanolamine-phosphate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64852 | NM_001367906,NM | **TUT1** | terminal uridylyl transfera | protein_coding | 34 | 39 | 35 | 40 | 1.146 |
| 64853 | NM_022831,XR_92 | **AIDA** | axin interactor, dorsaliza | protein_coding | 46 | 42 | 47 | 43 | 0.910 |
| 64854 | NM_001134223,NM | **USP46** | ubiquitin specific peptida | protein_coding | 2 | 1 | 3 | 2 | 0.840 |
| 64855 | NM_001035534,NM | **NIBAN2** | niban apoptosis regulato | protein_coding | 0 | 0 | 1 | 1 | 1.046 |
| 64856 | NM_022834,NM_19 | **VWA1** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64857 | NM_001351693,NM | **PLEKHG2** | pleckstrin homology and | protein_coding | 10 | 7 | 11 | 8 | 0.764 |
| 64858 | NM_001319946,NM | **DCLRE1B** | DNA cross-link repair 1B | protein_coding | 35 | 32 | 36 | 33 | 0.904 |
| 64859 | NM_001031716,NM | **NABP1** | nucleic acid binding prot | protein_coding | 23 | 21 | 24 | 22 | 0.915 |
| 64860 | NM_001168478,NM | **ARMCX5** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64863 | NM_001308401,NM | **METTL4** | methyltransferase like 4 | protein_coding | 12 | 10 | 13 | 11 | 0.834 |
| 64864 | NM_001368073,NM | **RFX7** | regulatory factor X7 | protein_coding | 15 | 13 | 16 | 14 | 0.880 |
| 64866 | NM_022842,NM_17 | **CDCP1** | CUB domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 64881 | NM_022843 | **PCDH20** | protocadherin 20 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64895 | NM_022894,XM_00 | **PAPOLG** | poly(A) polymerase gam | protein_coding | 10 | 8 | 11 | 9 | 0.865 |
| 64897 | NM_001286191,NM | **C12orf43** | chromosome 12 open rea | protein_coding | 23 | 25 | 24 | 26 | 1.110 |
| 64900 | NM_001301860,NM | **LPIN3** | lipin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64901 | NM_022897,XM_01 | **RANBP17** | RAN binding protein 17 | protein_coding | 2 | 2 | 3 | 3 | 0.938 |
| 64902 | NM_001306173,NM | **AGXT2** | alanine--glyoxylate amin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64919 | NM_001282237,NM | **BCL11B** | BAF chromatin remodelir | protein_coding | 4 | 4 | 5 | 5 | 1.002 |
| 64921 | NM_001363426,NM | **CASD1** | CAS1 domain containing | protein_coding | 25 | 25 | 26 | 26 | 1.007 |
| 64922 | NM_022901 | **LRRC19** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64924 | NM_001251969,NM | **SLC30A5** | solute carrier family 30 m | protein_coding | 88 | 83 | 89 | 84 | 0.952 |
| 64925 | NM_022903 | **CCDC71** | coiled-coil domain contai | protein_coding | 23 | 31 | 24 | 32 | 1.348 |
| 64926 | NM_001348027,NM | **RASAL3** | RAS protein activator like | protein_coding | 48 | 41 | 49 | 42 | 0.869 |
| 64927 | NM_001288615,NM | **TTC23** | tetratricopeptide repeat c | protein_coding | 12 | 12 | 13 | 13 | 1.062 |
| 64928 | NM_001318767,NM | **MRPL14** | mitochondrial ribosomal | protein_coding | 111 | 109 | 112 | 110 | 0.983 |
| 64939 | gene-SMNP | **SMNP** | survival of motor neuron | pseudogene | 0 | 0 | 1 | 1 | 1.118 |
| 64940 | NR_040585,NR_04 | **STAG3L4** | stromal antigen 3-like 4 ( | transcribed_pseu | 5 | 6 | 6 | 7 | 1.034 |
| 64943 | NM_001134231,NM | **NT5DC2** | 5'-nucleotidase domain c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 64946 | NM_022909 | **CENPH** | centromere protein H | protein_coding | 131 | 127 | 132 | 128 | 0.970 |
| 64949 | NM_030811 | **MRPS26** | mitochondrial ribosomal | protein_coding | 88 | 95 | 89 | 96 | 1.070 |
| 64951 | NM_032014 | **MRPS24** | mitochondrial ribosomal | protein_coding | 114 | 127 | 115 | 128 | 1.118 |
| 64960 | NM_031280 | **MRPS15** | mitochondrial ribosomal | protein_coding | 239 | 243 | 240 | 244 | 1.017 |
| 64963 | NM_001321970,NM | **MRPS11** | mitochondrial ribosomal | protein_coding | 41 | 44 | 42 | 45 | 1.081 |
| 64965 | NM_182640,XM_01 | **MRPS9** | mitochondrial ribosomal | protein_coding | 100 | 88 | 101 | 89 | 0.883 |
| 64968 | NM_032476 | **MRPS6** | mitochondrial ribosomal | protein_coding | 230 | 208 | 231 | 209 | 0.906 |
| 64969 | NM_001321995,NM | **MRPS5** | mitochondrial ribosomal | protein_coding | 72 | 75 | 73 | 76 | 1.046 |
| 64975 | NM_032477 | **MRPL41** | mitochondrial ribosomal | protein_coding | 123 | 140 | 124 | 141 | 1.137 |
| 64976 | NM_001318151,NM | **MRPL40** | mitochondrial ribosomal | protein_coding | 49 | 50 | 50 | 51 | 1.008 |
| 64978 | NM_032478 | **MRPL38** | mitochondrial ribosomal | protein_coding | 129 | 141 | 130 | 142 | 1.092 |
| 64979 | NM_032479,XM_01 | **MRPL36** | mitochondrial ribosomal | protein_coding | 109 | 106 | 110 | 107 | 0.973 |
| 64981 | NM_001382342,NM | **MRPL34** | mitochondrial ribosomal | protein_coding | 159 | 166 | 160 | 167 | 1.044 |
| 64983 | NM_031903,NR_15 | **MRPL32** | mitochondrial ribosomal | protein_coding | 103 | 91 | 104 | 92 | 0.880 |
| 65003 | NM_016050,NM_17 | **MRPL11** | mitochondrial ribosomal | protein_coding | 196 | 203 | 197 | 204 | 1.035 |
| 65005 | NM_001300733,NM | **MRPL9** | mitochondrial ribosomal | protein_coding | 121 | 123 | 122 | 124 | 1.018 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 65008 | NM_020236,XR_00 | **MRPL1** | mitochondrial ribosomal | protein_coding | 69 | 73 | 70 | 74 | 1.061 |
| 65009 | NM_001130487,NM | **NDRG4** | NDRG family member 4 | protein_coding | 0 | 0 | 1 | 1 | 0.907 |
| 65010 | NM_001040454,NM | **SLC26A6** | solute carrier family 26 m | protein_coding | 5 | 4 | 6 | 5 | 0.948 |
| 65012 | NR_166678,NR_16 | **SLC26A10** | solute carrier family 26 m | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 65018 | NM_032409 | **PINK1** | PTEN induced kinase 1 | protein_coding | 1 | 1 | 2 | 2 | 1.410 |
| 65055 | NM_001164730,NM | **REEP1** | receptor accessory prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65056 | NM_001127235,NM | **GPBP1** | GC-rich promoter bindin | protein_coding | 51 | 47 | 52 | 48 | 0.928 |
| 65057 | NM_001082486,NM | **ACD** | ACD shelterin complex s | protein_coding | 40 | 38 | 41 | 39 | 0.949 |
| 65059 | NM_001329728,NM | **RAPH1** | Ras association (RalGDS | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 65061 | NM_001261435,NM | **CDK15** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65062 | NM_001044385,NM | **TMEM237** | transmembrane protein 2 | protein_coding | 20 | 18 | 21 | 19 | 0.930 |
| 65065 | NM_001114132,NM | **NBEAL1** | neurobeachin like 1 | protein_coding | 5 | 3 | 6 | 4 | 0.733 |
| 65072 | NR_040030 | **CFLAR-AS1** | CFLAR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 65078 | NM_023004 | **RTN4R** | reticulon 4 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65080 | NM_022915,XM_01 | **MRPL44** | mitochondrial ribosomal | protein_coding | 106 | 103 | 107 | 104 | 0.972 |
| 65082 | NM_001351018,NM | **VPS33A** | VPS33A core subunit of | protein_coding | 35 | 35 | 36 | 36 | 0.998 |
| 65083 | NM_022917,NM_13 | **NOL6** | nucleolar protein 6 | protein_coding | 79 | 79 | 80 | 80 | 0.993 |
| 65084 | NM_001168724,NM | **TMEM135** | transmembrane protein 1 | protein_coding | 6 | 5 | 7 | 6 | 0.871 |
| 65094 | NM_001161465,NM | **JMJD4** | jumonji domain containir | protein_coding | 22 | 25 | 23 | 26 | 1.122 |
| 65095 | NM_023008,XM_01 | **KRI1** | KRI1 homolog | protein_coding | 50 | 49 | 51 | 50 | 0.990 |
| 65108 | NM_023009,NR_05 | **MARCKSL1** | MARCKS like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 65109 | NM_023010,NM_08 | **UPF3B** | UPF3B regulator of nons | protein_coding | 52 | 50 | 53 | 51 | 0.957 |
| 65110 | NM_001353644,NM | **UPF3A** | UPF3A regulator of nons | protein_coding | 88 | 87 | 89 | 88 | 0.997 |
| 65117 | NM_023012,NR_03 | **RSRC2** | arginine and serine rich | protein_coding | 71 | 70 | 72 | 71 | 0.983 |
| 65121 | NM_001294139,NM | **PRAMEF1** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65122 | NM_023014,XM_01 | **PRAMEF2** | PRAME family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65123 | NM_001324475,NM | **INTS3** | integrator complex subur | protein_coding | 37 | 41 | 38 | 42 | 1.105 |
| 65124 | NM_023016 | **SOWAHC** | sosondowah ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65125 | NM_001184985,NM | **WNK1** | WNK lysine deficient pro | protein_coding | 54 | 45 | 55 | 46 | 0.842 |
| 65217 | NM_001142763,NM | **PCDH15** | protocadherin related 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65220 | NM_001198993,NM | **NADK** | NAD kinase | protein_coding | 62 | 63 | 63 | 64 | 1.012 |
| 65243 | NM_001369565,NM | **ZFP69B** | ZFP69 zinc finger protein | protein_coding | 1 | 1 | 2 | 2 | 1.043 |
| 65244 | NM_001293285,NM | **SPATS2** | spermatogenesis associa | protein_coding | 14 | 13 | 15 | 14 | 0.928 |
| 65249 | NM_001367834,NM | **ZSWIM4** | zinc finger SWIM-type co | protein_coding | 10 | 7 | 11 | 8 | 0.730 |
| 65250 | NM_023073,XM_00 | **CPLANE1** | ciliogenesis and planar p | protein_coding | 2 | 2 | 3 | 3 | 0.867 |
| 65251 | NM_023074 | **ZNF649** | zinc finger protein 649 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65258 | NM_001242904,NM | **MPPE1** | metallophosphoesterase | protein_coding | 7 | 7 | 8 | 8 | 0.996 |
| 65260 | NM_023077 | **COA7** | cytochrome c oxidase as | protein_coding | 79 | 74 | 80 | 75 | 0.934 |
| 65263 | NM_001329866,NM | **PYCR3** | pyrroline-5-carboxylate r | protein_coding | 8 | 11 | 9 | 12 | 1.286 |
| 65264 | NM_023079 | **UBE2Z** | ubiquitin conjugating en | protein_coding | 72 | 68 | 73 | 69 | 0.937 |
| 65265 | NM_023080,XM_02 | **C8orf33** | chromosome 8 open rea | protein_coding | 40 | 40 | 41 | 41 | 0.998 |
| 65266 | NM_001321299,NM | **WNK4** | WNK lysine deficient pro | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 65267 | NM_001002838,NM | **WNK3** | WNK lysine deficient pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65268 | NM_001282394,NM | **WNK2** | WNK lysine deficient pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65975 | NM_001289058,NM | **STK33** | serine/threonine kinase 3 | protein_coding | 6 | 6 | 7 | 7 | 1.011 |
| 65977 | NM_019091,XM_01 | **PLEKHA3** | pleckstrin homology dom | protein_coding | 5 | 5 | 6 | 6 | 0.936 |
| 65979 | NM_001048183,NM | **PHACTR4** | phosphatase and actin r | protein_coding | 17 | 16 | 18 | 17 | 0.953 |
| 65980 | NM_001009877,NM | **BRD9** | bromodomain containing | protein_coding | 32 | 30 | 33 | 31 | 0.937 |
| 65981 | NM_001002259,NM | **CAPRIN2** | caprin family member 2 | protein_coding | 12 | 10 | 13 | 11 | 0.857 |
| 65982 | NM_001145542,NM | **ZSCAN18** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65983 | NM_001146319,NM | **GRAMD2B** | GRAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65985 | NM_001319839,NM | **AACS** | acetoacetyl-CoA synthet | protein_coding | 11 | 9 | 12 | 10 | 0.883 |
| 65986 | NM_001105539,NM | **ZBTB10** | zinc finger and BTB dom | protein_coding | 4 | 4 | 5 | 5 | 0.870 |
| 65987 | NM_001282406,NM | **KCTD14** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65988 | NM_001305018,NM | **ZNF747** | zinc finger protein 747 | protein_coding | 16 | 15 | 17 | 16 | 0.934 |
| 65989 | NM_001286655,NM | **DLK2** | delta like non-canonical | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65990 | NM_001271285,NM | **ANTKMT** | adenine nucleotide trans | protein_coding | 17 | 23 | 18 | 24 | 1.343 |
| 65991 | NM_023934 | **FUNDC2** | FUN14 domain containin | protein_coding | 20 | 19 | 21 | 20 | 0.949 |
| 65992 | NM_023935 | **DDRGK1** | DDRGK domain containi | protein_coding | 67 | 69 | 68 | 70 | 1.016 |
| 65993 | NM_001300900,NM | **MRPS34** | mitochondrial ribosomal | protein_coding | 147 | 161 | 148 | 162 | 1.088 |
| 65996 | NR_026052 | **CENPBD1P1** | CENPB DNA-binding dor | transcribed_pseu | 17 | 15 | 18 | 16 | 0.900 |
| 65997 | NM_023940 | **RASL11B** | RAS like family 11 memb | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 65998 | NM_001144936,XM | **C11orf95** | chromosome 11 open rea | protein_coding | 17 | 16 | 18 | 17 | 0.967 |
| 65999 | NM_001142928,NM | **LRRC61** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 66000 | NM_001136469,NM | **TMEM108** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 66002 | NM_023944,NR_11 | **CYP4F12** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 66004 | NM_001356370,NM | **LYNX1** | Ly6/neurotoxin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 66005 | NM_001142674,NM | **CHID1** | chitinase domain contain | protein_coding | 36 | 39 | 37 | 40 | 1.088 |
| 66008 | NM_015049,XM_01 | **TRAK2** | trafficking kinesin protein | protein_coding | 27 | 24 | 28 | 25 | 0.892 |
| 66035 | NM_001024938,NM | **SLC2A11** | solute carrier family 2 me | protein_coding | 2 | 2 | 3 | 3 | 0.853 |
| 66036 | NM_015458,XM_01 | **MTMR9** | myotubularin related pro | protein_coding | 6 | 5 | 7 | 6 | 0.862 |
| 66037 | NM_001284358,NM | **BOLL** | boule homolog, RNA bin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 78986 | NM_001305115,NM | **DUSP26** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 78987 | NM_001031717,NM | **CRELD1** | cysteine rich with EGF lik | protein_coding | 10 | 9 | 11 | 10 | 0.924 |
| 78988 | NM_024026,XM_01 | **MRPL57** | mitochondrial ribosomal | protein_coding | 79 | 82 | 80 | 83 | 1.037 |
| 78989 | NM_001255982,NM | **COLEC11** | collectin subfamily memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 78990 | NM_023112 | **OTUB2** | OTU deubiquitinase, ubi | protein_coding | 1 | 0 | 2 | 1 | 0.767 |
| 78991 | NM_001301054,NM | **PCYOX1L** | prenylcysteine oxidase 1 | protein_coding | 12 | 15 | 13 | 16 | 1.234 |
| 78992 | NM_001321439,NM | **YIPF2** | Yip1 domain family mem | protein_coding | 18 | 19 | 19 | 20 | 1.045 |
| 78994 | NM_001320464,NM | **PRR14** | proline rich 14 | protein_coding | 47 | 44 | 48 | 45 | 0.927 |
| 78995 | NM_001171251,NM | **HROB** | homologous recombinati | protein_coding | 11 | 10 | 12 | 11 | 0.893 |
| 78996 | NM_001243749,NM | **CYREN** | cell cycle regulator of NH | protein_coding | 50 | 44 | 51 | 45 | 0.883 |
| 78997 | NM_001256737,NM | **GDAP1L1** | ganglioside induced diffe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 78998 | NR_026785 | **RHPN1-AS1** | RHPN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 78999 | NM_001363524,NM | **LRFN4** | leucine rich repeat and fi | protein_coding | 4 | 4 | 5 | 5 | 1.106 |
| 79000 | NM_001287490,NM | **AUNIP** | aurora kinase A and nine | protein_coding | 25 | 24 | 26 | 25 | 0.956 |
| 79001 | NM_001311311,NM | **VKORC1** | vitamin K epoxide reduct | protein_coding | 76 | 78 | 77 | 79 | 1.020 |
| 79002 | NM_001329738,NM | **TRIR** | telomerase RNA compon | protein_coding | 318 | 372 | 319 | 373 | 1.171 |
| 79003 | NM_001258217,NM | **MIS12** | MIS12 kinetochore comp | protein_coding | 29 | 25 | 30 | 26 | 0.868 |
| 79004 | NM_024040 | **CUEDC2** | CUE domain containing 2 | protein_coding | 96 | 99 | 97 | 100 | 1.022 |
| 79005 | NM_001204856,NM | **SCNM1** | sodium channel modifier | protein_coding | 37 | 37 | 38 | 38 | 1.017 |
| 79006 | NM_024042 | **METRN** | meteorin, glial cell differe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79007 | NM_001042610,NM | **DBNDD1** | dysbindin domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79008 | NM_024044,NM_17 | **SLX1B** | SLX1 homolog B, structu | protein_coding | 24 | 26 | 25 | 27 | 1.058 |
| 79009 | NM_024045,XM_00 | **DDX50** | DExD-box helicase 50 | protein_coding | 53 | 47 | 54 | 48 | 0.889 |
| 79012 | NM_001320147,NM | **CAMKV** | CaM kinase like vesicle a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79015 | NR_034104 | **LINC01260** | long intergenic non-prote | lncRNA | 18 | 21 | 19 | 22 | 1.166 |
| 79016 | NM_024050,XM_02 | **DDA1** | DET1 and DDB1 associa | protein_coding | 41 | 42 | 42 | 43 | 1.018 |
| 79017 | NM_001199815,NM | **GGCT** | gamma-glutamylcyclotra | protein_coding | 102 | 102 | 103 | 103 | 0.997 |
| 79018 | NM_024052,XM_00 | **GID4** | GID complex subunit 4 h | protein_coding | 4 | 4 | 5 | 5 | 0.875 |
| 79019 | NM_001002876,NM | **CENPM** | centromere protein M | protein_coding | 86 | 82 | 87 | 83 | 0.953 |
| 79020 | NM_001099858,NM | **C7orf25** | chromosome 7 open rea | protein_coding | 8 | 10 | 9 | 11 | 1.226 |
| 79022 | NM_001143841,NM | **TMEM106C** | transmembrane protein 1 | protein_coding | 164 | 158 | 165 | 159 | 0.964 |
| 79023 | NM_024057,XR_94 | **NUP37** | nucleoporin 37 | protein_coding | 52 | 50 | 53 | 51 | 0.955 |
| 79024 | NM_024058 | **SMIM2** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79025 | NM_001319152,NM | **FNDC11** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 79026 | NM_001346445,NM | **AHNAK** | AHNAK nucleoprotein | protein_coding | 8 | 10 | 9 | 11 | 1.247 |
| 79027 | NM_001009958,NM | **ZNF655** | zinc finger protein 655 | protein_coding | 69 | 66 | 70 | 67 | 0.951 |
| 79029 | NM_001323640,NM | **SPATA5L1** | spermatogenesis associa | protein_coding | 17 | 17 | 18 | 18 | 0.961 |
| 79031 | NM_024065,XM_01 | **PDCL3** | phosducin like 3 | protein_coding | 52 | 50 | 53 | 51 | 0.954 |
| 79033 | NM_001301698,NM | **ERI3** | ERI1 exoribonuclease fa | protein_coding | 55 | 52 | 56 | 53 | 0.941 |
| 79034 | NM_001303039,NM | **C7orf26** | chromosome 7 open rea | protein_coding | 31 | 30 | 32 | 31 | 0.953 |
| 79035 | NM_024068,XM_00 | **NABP2** | nucleic acid binding prot | protein_coding | 117 | 117 | 118 | 118 | 1.003 |
| 79036 | NM_001171948,NM | **KXD1** | KxDL motif containing 1 | protein_coding | 168 | 187 | 169 | 188 | 1.112 |
| 79037 | NM_024070,XM_01 | **PVRIG** | PVR related immunoglob | protein_coding | 155 | 168 | 156 | 169 | 1.083 |
| 79038 | NM_001198953,NM | **ZFYVE21** | zinc finger FYVE-type co | protein_coding | 13 | 10 | 14 | 11 | 0.827 |
| 79039 | NM_001111322,NM | **DDX54** | DEAD-box helicase 54 | protein_coding | 59 | 62 | 60 | 63 | 1.049 |
| 79041 | NM_024074 | **TMEM38A** | transmembrane protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 79042 | NM_001077446,NM | **TSEN34** | tRNA splicing endonucle | protein_coding | 16 | 16 | 17 | 17 | 0.997 |
| 79047 | NM_001129994,NM | **KCTD15** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79048 | NM_001282688,NM | **SECISBP2** | SECIS binding protein 2 | protein_coding | 31 | 28 | 32 | 29 | 0.919 |
| 79050 | NM_024078,XM_01 | **NOC4L** | nucleolar complex assoc | protein_coding | 52 | 59 | 53 | 60 | 1.124 |
| 79053 | NM_001007027,NM | **ALG8** | ALG8 alpha-1,3-glucosyl | protein_coding | 73 | 64 | 74 | 65 | 0.867 |
| 79054 | NM_024080,XM_01 | **TRPM8** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 79055 | gene-PSMA2P3 | **PSMA2P3** | proteasome subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79056 | NM_024081,XM_00 | **PRRG4** | proline rich and Gla dom | protein_coding | 1 | 1 | 2 | 2 | 1.004 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 79057 | NM_001372163,NM | **PRRG3** | proline rich and Gla dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79058 | NM_001251888,NM | **ASPSCR1** | ASPSCR1 tether for SLC | protein_coding | 14 | 14 | 15 | 15 | 1.020 |
| 79064 | NM_001080501 | **TMEM223** | transmembrane protein 2 | protein_coding | 34 | 35 | 35 | 36 | 1.016 |
| 79065 | NM_001077198,NM | **ATG9A** | autophagy related 9A | protein_coding | 18 | 18 | 19 | 19 | 0.985 |
| 79066 | NM_024086,XM_005 | **METTL16** | methyltransferase like 16 | protein_coding | 18 | 16 | 19 | 17 | 0.894 |
| 79068 | NM_001080432,NM | **FTO** | FTO alpha-ketoglutarate | protein_coding | 16 | 15 | 17 | 16 | 0.923 |
| 79070 | NM_001318732,NM | **POGLUT2** | protein O-glucosyltransfe | protein_coding | 9 | 6 | 10 | 7 | 0.711 |
| 79071 | NM_001130721,NM | **ELOVL6** | ELOVL fatty acid elonga | protein_coding | 11 | 10 | 12 | 11 | 0.930 |
| 79072 | NM_024091,NR_03 | **FASTKD3** | FAST kinase domains 3 | protein_coding | 38 | 30 | 39 | 31 | 0.804 |
| 79073 | NM_024092 | **TMEM109** | transmembrane protein 1 | protein_coding | 199 | 227 | 200 | 228 | 1.143 |
| 79074 | NM_001286537,NM | **C2orf49** | chromosome 2 open rea | protein_coding | 24 | 22 | 25 | 23 | 0.925 |
| 79075 | NM_024094,XM_00 | **DSCC1** | DNA replication and siste | protein_coding | 83 | 82 | 84 | 83 | 0.996 |
| 79077 | NM_024096,NR_13 | **DCTPP1** | dCTP pyrophosphatase | protein_coding | 371 | 361 | 372 | 362 | 0.973 |
| 79078 | NM_024097,NR_04 | **C1orf50** | chromosome 1 open rea | protein_coding | 11 | 12 | 12 | 13 | 1.081 |
| 79080 | NM_024098 | **CCDC86** | coiled-coil domain contai | protein_coding | 202 | 191 | 203 | 192 | 0.944 |
| 79081 | NM_001367940,NM | **LBHD1** | LBH domain containing 1 | protein_coding | 11 | 10 | 12 | 11 | 0.904 |
| 79083 | NM_001042467,NM | **MLPH** | melanophilin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79084 | NM_001317062,NM | **WDR77** | WD repeat domain 77 | protein_coding | 163 | 156 | 164 | 157 | 0.962 |
| 79085 | NM_024103,XM_01 | **SLC25A23** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 79086 | NM_001300925,NM | **SMIM7** | small integral membrane | protein_coding | 51 | 55 | 52 | 56 | 1.080 |
| 79087 | NM_024105,XM_01 | **ALG12** | ALG12 alpha-1,6-manno | protein_coding | 7 | 8 | 8 | 9 | 1.138 |
| 79088 | NM_001300883,NM | **ZNF426** | zinc finger protein 426 | protein_coding | 8 | 8 | 9 | 9 | 1.031 |
| 79089 | NM_001076674,NM | **TMUB2** | transmembrane and ubic | protein_coding | 27 | 32 | 28 | 33 | 1.153 |
| 79090 | NM_001270891,NM | **TRAPPC6A** | trafficking protein particl | protein_coding | 10 | 14 | 11 | 15 | 1.364 |
| 79091 | NM_024109,NR_13 | **METTL22** | methyltransferase like 22 | protein_coding | 10 | 9 | 11 | 10 | 0.968 |
| 79092 | NM_001257970,NM | **CARD14** | caspase recruitment dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79094 | NM_001142776,NM | **CHAC1** | ChaC glutathione specifi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79095 | NM_024112,XM_01 | **C9orf16** | chromosome 9 open rea | protein_coding | 52 | 53 | 53 | 54 | 1.022 |
| 79096 | NM_001003676,NM | **C11orf49** | chromosome 11 open re | protein_coding | 21 | 22 | 22 | 23 | 1.023 |
| 79097 | NM_024114 | **TRIM48** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79098 | NM_001083924,NM | **C1orf116** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79100 | NR_024160 | **LINC00626** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79101 | NM_024116,NR_14 | **TAF1D** | TATA-box binding protein | protein_coding | 85 | 78 | 86 | 79 | 0.919 |
| 79102 | NM_032015 | **RNF26** | ring finger protein 26 | protein_coding | 61 | 61 | 62 | 62 | 1.004 |
| 79104 | NR_146000 | **MEG8** | maternally expressed 8, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79109 | NM_001006617,NM | **MAPKAP1** | MAPK associated protein | protein_coding | 50 | 50 | 51 | 51 | 0.997 |
| 79132 | NM_024119,XM_01 | **DHX58** | DExH-box helicase 58 | protein_coding | 9 | 10 | 10 | 11 | 1.016 |
| 79133 | NM_001039375,NM | **NDUFAF5** | NADH:ubiquinone oxidor | protein_coding | 8 | 9 | 9 | 10 | 1.098 |
| 79134 | NM_024121 | **TMEM185B** | transmembrane protein 1 | protein_coding | 76 | 75 | 77 | 76 | 0.985 |
| 79135 | NM_024122,NR_02 | **APOO** | apolipoprotein O | protein_coding | 39 | 34 | 40 | 35 | 0.880 |
| 79136 | NR_003673,NR_02 | **LY6G6E** | lymphocyte antigen 6 far | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 79137 | NM_001321109,NM | **RETREG2** | reticulophagy regulator f | protein_coding | 49 | 51 | 50 | 52 | 1.035 |
| 79139 | NM_001134671,NM | **DERL1** | derlin 1 | protein_coding | 92 | 89 | 93 | 90 | 0.968 |
| 79140 | NM_001301011,NM | **CCDC28B** | coiled-coil domain contai | protein_coding | 48 | 49 | 49 | 50 | 1.018 |
| 79142 | NM_001284517,NM | **PHF23** | PHD finger protein 23 | protein_coding | 45 | 47 | 46 | 48 | 1.055 |
| 79143 | NM_001146056,NM | **MBOAT7** | membrane bound O-acy | protein_coding | 17 | 16 | 18 | 17 | 0.952 |
| 79144 | NM_001353423,NM | **PPDPF** | pancreatic progenitor cel | protein_coding | 265 | 314 | 266 | 315 | 1.184 |
| 79145 | NM_001011667,NM | **CHCHD7** | coiled-coil-helix-coiled-co | protein_coding | 68 | 66 | 69 | 67 | 0.979 |
| 79147 | NM_001039885,NM | **FKRP** | fukutin related protein | protein_coding | 15 | 16 | 16 | 17 | 1.061 |
| 79148 | NM_001032278,NM | **MMP28** | matrix metallopeptidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79149 | NM_001322061,NM | **ZSCAN5A** | zinc finger and SCAN do | protein_coding | 4 | 4 | 5 | 5 | 0.909 |
| 79150 | NR_147499 | **MGC4859** | uncharacterized LOC791 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79152 | NM_024306,XM_01 | **FA2H** | fatty acid 2-hydroxylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79153 | NM_024307 | **GDPD3** | glycerophosphodiester p | protein_coding | 1 | 1 | 2 | 2 | 0.897 |
| 79154 | NM_024308,XM_00 | **DHRS11** | dehydrogenase/reductas | protein_coding | 6 | 8 | 7 | 9 | 1.261 |
| 79155 | NM_001161527,NM | **TNIP2** | TNFAIP3 interacting prot | protein_coding | 74 | 77 | 75 | 78 | 1.038 |
| 79156 | NM_024310,XM_00 | **PLEKHF1** | pleckstrin homology and | protein_coding | 101 | 108 | 102 | 109 | 1.063 |
| 79157 | NM_001242532,NM | **MFSD11** | major facilitator superfan | protein_coding | 11 | 11 | 12 | 12 | 0.989 |
| 79158 | NM_024312,XM_00 | **GNPTAB** | N-acetylglucosamine-1-p | protein_coding | 111 | 100 | 112 | 101 | 0.905 |
| 79159 | NM_024313 | **NOL12** | nucleolar protein 12 | protein_coding | 14 | 13 | 15 | 14 | 0.957 |
| 79160 | NR_125359 | **LINC01711** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.088 |
| 79161 | NM_001329472,NM | **TMEM243** | transmembrane protein 2 | protein_coding | 35 | 30 | 36 | 31 | 0.855 |
| 79165 | NM_024316 | **LENG1** | leukocyte receptor cluste | protein_coding | 17 | 15 | 18 | 16 | 0.927 |
| 79166 | NR_003061 | **LILRP2** | leukocyte immunoglobul | transcribed_pseu | 6 | 4 | 7 | 5 | 0.731 |
| 79167 | gene-LILRP1 | **LILRP1** | leukocyte immunoglobul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79168 | NM_024318,NR_10 | **LILRA6** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79169 | NM_024319,NR_13 | **C1orf35** | chromosome 1 open rea | protein_coding | 37 | 38 | 38 | 39 | 1.015 |
| 79170 | NM_024320,XM_00 | **PRR15L** | proline rich 15 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79171 | NM_001319113,NM | **RBM42** | RNA binding motif protei | protein_coding | 185 | 198 | 186 | 199 | 1.073 |
| 79172 | NM_001199803,NM | **CENPO** | centromere protein O | protein_coding | 40 | 37 | 41 | 38 | 0.923 |
| 79173 | NM_001345843,NM | **C19orf57** | chromosome 19 open rea | protein_coding | 29 | 30 | 30 | 31 | 1.035 |
| 79174 | NM_001135101,NM | **CRELD2** | cysteine rich with EGF lik | protein_coding | 25 | 34 | 26 | 35 | 1.308 |
| 79175 | NM_001282495,NM | **ZNF343** | zinc finger protein 343 | protein_coding | 12 | 11 | 13 | 12 | 0.989 |
| 79176 | NM_024326,XM_00 | **FBXL15** | F-box and leucine rich re | protein_coding | 5 | 5 | 6 | 6 | 0.906 |
| 79177 | NM_001145347,NM | **ZNF576** | zinc finger protein 576 | protein_coding | 21 | 21 | 22 | 22 | 0.973 |
| 79178 | NM_001126339,NM | **THTPA** | thiamine triphosphatase | protein_coding | 7 | 6 | 8 | 7 | 0.906 |
| 79180 | NM_024329,XM_00 | **EFHD2** | EF-hand domain family r | protein_coding | 315 | 364 | 316 | 365 | 1.156 |
| 79183 | NM_001039199,NM | **TTPAL** | alpha tocopherol transfe | protein_coding | 39 | 37 | 40 | 38 | 0.962 |
| 79184 | NM_001018055,NM | **BRCC3** | BRCA1/BRCA2-containir | protein_coding | 35 | 34 | 36 | 35 | 0.955 |
| 79187 | NM_001330429,NM | **FSD1** | fibronectin type III and SI | protein_coding | 14 | 16 | 15 | 17 | 1.141 |
| 79188 | NM_024334,XM_01 | **TMEM43** | transmembrane protein 4 | protein_coding | 51 | 52 | 52 | 53 | 1.015 |
| 79190 | NM_024335,XM_00 | **IRX6** | iroquois homeobox 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79191 | NM_024336,XM_00 | **IRX3** | iroquois homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79192 | NM_024337,XM_01 | **IRX1** | iroquois homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79228 | NM_001142350,NM | **THOC6** | THO complex 6 | protein_coding | 79 | 84 | 80 | 85 | 1.060 |
| 79230 | NM_001044387,NM | **ZNF557** | zinc finger protein 557 | protein_coding | 7 | 8 | 8 | 9 | 1.035 |
| 79258 | NM_033467,XM_01 | **MMEL1** | membrane metalloendop | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79269 | NM_001286810,NM | **DCAF10** | DDB1 and CUL4 associa | protein_coding | 8 | 8 | 9 | 9 | 1.000 |
| 79290 | NM_001004297,XM | **OR13A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79295 | NM_001005479 | **OR5H6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79296 | NM_001348221,NR | **OR52E1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79297 | gene-OR5H5P | **OR5H5P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79309 | gene-OR5H3P | **OR5H3P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79310 | NM_001005482 | **OR5H2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79315 | NR_002185 | **OR7E91P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 79317 | NM_001005483 | **OR4K5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79322 | gene-OR4N1P | **OR4N1P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79324 | NM_001005237 | **OR51G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79334 | NM_001197287 | **OR11H2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79339 | NM_033179 | **OR51B4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79345 | NM_033180 | **OR51B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79346 | NM_001348223 | **OR4C5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79363 | NM_030907,XM_01 | **CPLANE2** | ciliogenesis and planar p | protein_coding | 5 | 5 | 6 | 6 | 1.018 |
| 79364 | NM_001040653,NM | **ZXDC** | ZXD family zinc finger C | protein_coding | 20 | 20 | 21 | 21 | 0.995 |
| 79365 | NM_030762 | **BHLHE41** | basic helix-loop-helix fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79366 | NM_030763 | **HMGN5** | high mobility group nucl | protein_coding | 6 | 5 | 7 | 6 | 0.831 |
| 79368 | NM_001159488,NM | **FCRL2** | Fc receptor like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79369 | NM_001330492,NM | **B3GNT4** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79370 | NM_001370268,NM | **BCL2L14** | BCL2 like 14 | protein_coding | 1 | 1 | 2 | 2 | 0.989 |
| 79400 | NM_001184779,NM | **NOX5** | NADPH oxidase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79411 | NM_001286423,NM | **GLB1L** | galactosidase beta 1 like | protein_coding | 3 | 3 | 4 | 4 | 0.958 |
| 79412 | NM_001253725,NM | **KREMEN2** | kringle containing transm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79413 | NM_024508 | **ZBED2** | zinc finger BED-type con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79414 | NM_024509 | **LRFN3** | leucine rich repeat and fi | protein_coding | 2 | 2 | 3 | 3 | 0.862 |
| 79415 | NM_001033046,NM | **CYBC1** | cytochrome b-245 chape | protein_coding | 62 | 74 | 63 | 75 | 1.200 |
| 79441 | NM_001303143,NM | **HAUS3** | HAUS augmin like compl | protein_coding | 15 | 13 | 16 | 14 | 0.836 |
| 79442 | NM_024512,XM_01 | **LRRC2** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79443 | NM_024513,XM_00 | **FYCO1** | FYVE and coiled-coil dor | protein_coding | 24 | 22 | 25 | 23 | 0.941 |
| 79444 | NM_022161,NM_13 | **BIRC7** | baculoviral IAP repeat co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79446 | NM_001161476,NM | **WDR25** | WD repeat domain 25 | protein_coding | 4 | 4 | 5 | 5 | 0.937 |
| 79447 | NM_024516 | **PAGR1** | PAXIP1 associated gluta | protein_coding | 72 | 70 | 73 | 71 | 0.960 |
| 79465 | NM_024518 | **ULBP3** | UL16 binding protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79469 | NR_002771 | **DLEU2L** | deleted in lymphocytic le | ncRNA_pseudoge | 0 | 0 | 1 | 1 | 0.988 |
| 79470 | NM_001348224 | **OR51J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79473 | NM_001001913 | **OR52N1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79482 | NM_001348230,NR | **OR5AL1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 79490 | NM_001355219 | **OR10G6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79501 | NM_001005484 | **OR4F5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79526 | gene-OR4C10P | **OR4C10P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79541 | NM_030908 | **OR2A4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79544 | NM_001004063,XM_ | **OR4K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79549 | NM_001348233 | **OR6J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79550 | gene-OR4C4P | **OR4C4P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 79567 | NM_001193522,NM | **RIPOR1** | RHO family interacting c | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 79568 | NM_001369399,NM | **MAIP1** | matrix AAA peptidase int | protein_coding | 50 | 53 | 51 | 54 | 1.055 |
| 79570 | NM_024522,XM_01 | **NKAIN1** | sodium/potassium transp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79571 | NM_024523 | **GCC1** | GRIP and coiled-coil dor | protein_coding | 30 | 30 | 31 | 31 | 0.998 |
| 79572 | NM_001367549,NM | **ATP13A3** | ATPase 13A3 | protein_coding | 95 | 71 | 96 | 72 | 0.750 |
| 79573 | NM_001122835,NM | **TTC13** | tetratricopeptide repeat c | protein_coding | 6 | 8 | 7 | 9 | 1.165 |
| 79574 | NM_001319952,NM | **EPS8L3** | EPS8 like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79575 | NM_024527 | **ABHD8** | abhydrolase domain con | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 79576 | NM_024528,XM_01 | **NKAP** | NFKB activating protein | protein_coding | 14 | 13 | 15 | 14 | 0.941 |
| 79577 | NM_024529,XM_00 | **CDC73** | cell division cycle 73 | protein_coding | 33 | 29 | 34 | 30 | 0.894 |
| 79581 | NM_001253815,NM | **SLC52A2** | solute carrier family 52 r | protein_coding | 34 | 34 | 35 | 35 | 1.005 |
| 79582 | NM_001025436,NM | **SPAG16** | sperm associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 79583 | NM_001077416,NM | **TMEM231** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79585 | NM_001201472,NM | **CORO7** | coronin 7 | protein_coding | 56 | 58 | 57 | 59 | 1.036 |
| 79586 | NM_001195731,NM | **CHPF** | chondroitin polymerizing | protein_coding | 24 | 30 | 25 | 31 | 1.234 |
| 79587 | NM_001352252,NM | **CARS2** | cysteinyl-tRNA synthetas | protein_coding | 51 | 53 | 52 | 54 | 1.043 |
| 79589 | NM_024539,NM_19 | **RNF128** | ring finger protein 128 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79590 | NM_024540,NM_14 | **MRPL24** | mitochondrial ribosomal | protein_coding | 200 | 235 | 201 | 236 | 1.171 |
| 79591 | NM_024541,XM_00 | **ARMH3** | armadillo like helical dor | protein_coding | 15 | 14 | 16 | 15 | 0.972 |
| 79594 | NM_024544,XM_01 | **MUL1** | mitochondrial E3 ubiquiti | protein_coding | 30 | 31 | 31 | 32 | 1.024 |
| 79595 | NM_001145928,NM | **SAP130** | Sin3A associated protein | protein_coding | 31 | 29 | 32 | 30 | 0.949 |
| 79596 | NM_024546,XM_01 | **OBI1** | ORC ubiquitin ligase 1 | protein_coding | 52 | 47 | 53 | 48 | 0.909 |
| 79598 | NM_001303401,NM | **CEP97** | centrosomal protein 97 | protein_coding | 14 | 11 | 15 | 12 | 0.777 |
| 79600 | NM_001082537,NM | **TCTN1** | tectonic family member 1 | protein_coding | 2 | 2 | 3 | 3 | 1.210 |
| 79602 | NM_001375363,NM | **ADIPOR2** | adiponectin receptor 2 | protein_coding | 58 | 51 | 59 | 52 | 0.873 |
| 79603 | NM_024552,XM_01 | **CERS4** | ceramide synthase 4 | protein_coding | 0 | 0 | 1 | 1 | 0.923 |
| 79605 | NM_001258311 | **PGBD5** | piggyBac transposable e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79607 | NM_001330446,NM | **FAM118B** | family with sequence sim | protein_coding | 24 | 21 | 25 | 22 | 0.863 |
| 79608 | NM_001135109,NM | **RIC3** | RIC3 acetylcholine recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79609 | NM_001040662,NM | **VCPKMT** | valosin containing protei | protein_coding | 18 | 15 | 19 | 16 | 0.833 |
| 79611 | NM_001330242,NM | **ACSS3** | acyl-CoA synthetase sho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79612 | NM_001110798,NM | **NAA16** | N-alpha-acetyltransferas | protein_coding | 20 | 16 | 21 | 17 | 0.817 |
| 79613 | NM_024562,XM_01 | **TANGO6** | transport and golgi orgar | protein_coding | 10 | 10 | 11 | 11 | 0.944 |
| 79616 | NM_001308173,NM | **CCNJL** | cyclin J like | protein_coding | 12 | 12 | 13 | 13 | 0.947 |
| 79618 | NM_001135726,NM | **HMBOX1** | homeobox containing 1 | protein_coding | 4 | 3 | 5 | 4 | 0.740 |
| 79621 | NM_001142279,NM | **RNASEH2B** | ribonuclease H2 subunit | protein_coding | 89 | 97 | 90 | 98 | 1.080 |
| 79622 | NM_024571 | **SNRNP25** | small nuclear ribonucleo | protein_coding | 127 | 149 | 128 | 150 | 1.175 |
| 79623 | NM_001253826,NM | **GALNT14** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79624 | NM_001286562,NM | **ARMT1** | acidic residue methyltran | protein_coding | 64 | 57 | 65 | 58 | 0.894 |
| 79625 | NM_024574,XM_02 | **NDNF** | neuron derived neurotrop | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79626 | NM_024575 | **TNFAIP8L2** | TNF alpha induced prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79627 | NM_001324266,NM | **OGFRL1** | opioid growth factor rece | protein_coding | 1 | 1 | 2 | 2 | 0.997 |
| 79628 | NM_024577 | **SH3TC2** | SH3 domain and tetratric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79629 | NM_024578,XM_00 | **OCEL1** | occludin/ELL domain cor | protein_coding | 3 | 3 | 4 | 4 | 0.889 |
| 79630 | NM_001301039,NM | **C1orf54** | chromosome 1 open rea | protein_coding | 0 | 1 | 1 | 2 | 1.714 |
| 79631 | NM_001040610,NM | **EFL1** | elongation factor like GT | protein_coding | 22 | 17 | 23 | 18 | 0.782 |
| 79632 | NM_001100411,NM | **FAM184A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79633 | NM_001291285,NM | **FAT4** | FAT atypical cadherin 4 | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 79634 | NM_001193528,NM | **SCRN3** | secernin 3 | protein_coding | 9 | 7 | 10 | 8 | 0.808 |
| 79635 | NM_001142683,NM | **CCDC121** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.863 |
| 79637 | NM_001304271,NM | **ARMC7** | armadillo repeat containi | protein_coding | 24 | 24 | 25 | 25 | 1.005 |
| 79639 | NM_001300746,NM | **TMEM53** | transmembrane protein 5 | protein_coding | 0 | 1 | 1 | 2 | 1.154 |
| 79640 | NR_160905 | **C22orf46** | chromosome 22 open rea | transcribed_pseu | 23 | 22 | 24 | 23 | 0.962 |
| 79641 | NM_024589,NR_04 | **ROGDI** | rogdi atypical leucine zip | protein_coding | 3 | 2 | 4 | 3 | 0.853 |
| 79642 | NM_001354210,NM | **ARSJ** | arylsulfatase family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79643 | NM_024591,XM_00 | **CHMP6** | charged multivesicular b | protein_coding | 28 | 27 | 29 | 28 | 0.981 |
| 79644 | NM_024592,XM_00 | **SRD5A3** | steroid 5 alpha-reductas | protein_coding | 8 | 7 | 9 | 8 | 0.968 |
| 79645 | NM_001142857,NM | **EFCAB1** | EF-hand calcium bindinç | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79646 | NM_024594 | **PANK3** | pantothenate kinase 3 | protein_coding | 54 | 41 | 55 | 42 | 0.772 |
| 79647 | NM_001136275,NM | **AKIRIN1** | akirin 1 | protein_coding | 179 | 167 | 180 | 168 | 0.934 |
| 79648 | NM_001172574,NM | **MCPH1** | microcephalin 1 | protein_coding | 10 | 10 | 11 | 11 | 0.976 |
| 79649 | NM_001173516,NM | **MAP7D3** | MAP7 domain containing | protein_coding | 20 | 18 | 21 | 19 | 0.922 |
| 79650 | NM_001195302,NM | **USB1** | U6 snRNA biogenesis ph | protein_coding | 60 | 63 | 61 | 64 | 1.047 |
| 79651 | NM_001005498,NM | **RHBDF2** | rhomboid 5 homolog 2 | protein_coding | 5 | 4 | 6 | 5 | 0.953 |
| 79652 | NM_001256541,NM | **TMEM204** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79654 | NM_024602,XM_02 | **HECTD3** | HECT domain E3 ubiquit | protein_coding | 21 | 20 | 22 | 21 | 0.989 |
| 79656 | NM_001302082,NM | **BEND5** | BEN domain containing 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79657 | NM_001146075,NM | **RPAP3** | RNA polymerase II assoc | protein_coding | 28 | 24 | 29 | 25 | 0.843 |
| 79658 | NM_024605,XM_00 | **ARHGAP10** | Rho GTPase activating p | protein_coding | 3 | 4 | 4 | 5 | 1.338 |
| 79659 | NM_001080463,NM | **DYNC2H1** | dynein cytoplasmic 2 hea | protein_coding | 1 | 1 | 2 | 2 | 1.027 |
| 79660 | NM_001201329,NM | **PPP1R3B** | protein phosphatase 1 re | protein_coding | 1 | 1 | 2 | 2 | 0.919 |
| 79661 | NM_001256552,NM | **NEIL1** | nei like DNA glycosylase | protein_coding | 1 | 1 | 2 | 2 | 0.982 |
| 79663 | NM_001320728,NM | **HSPBAP1** | HSPB1 associated protei | protein_coding | 10 | 10 | 11 | 11 | 0.983 |
| 79664 | NM_001018089,NM | **ICE2** | interactor of little elongat | protein_coding | 35 | 31 | 36 | 32 | 0.890 |
| 79665 | NM_001166301,NM | **DHX40** | DEAH-box helicase 40 | protein_coding | 36 | 39 | 37 | 40 | 1.079 |
| 79666 | NM_024613 | **PLEKHF2** | pleckstrin homology and | protein_coding | 10 | 10 | 11 | 11 | 1.008 |
| 79667 | NR_026804 | **KLF3-AS1** | KLF3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79668 | NM_001178055,NM | **PARP8** | poly(ADP-ribose) polyme | protein_coding | 14 | 13 | 15 | 14 | 0.911 |
| 79669 | NM_001171747,NM | **C3orf52** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79670 | NM_001185059,NM | **TUT7** | terminal uridylyl transfer | protein_coding | 14 | 12 | 15 | 13 | 0.849 |
| 79671 | NM_001282143,NM | **NLRX1** | NLR family member X1 | protein_coding | 9 | 10 | 10 | 11 | 1.110 |
| 79672 | NM_024619,NR_04 | **FN3KRP** | fructosamine 3 kinase re | protein_coding | 28 | 28 | 29 | 29 | 1.004 |
| 79673 | NM_024620,XM_00 | **ZNF329** | zinc finger protein 329 | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 79674 | NM_001167911,NM | **VEPH1** | ventricular zone expresse | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79675 | NM_001281476,NM | **FASTKD1** | FAST kinase domains 1 | protein_coding | 74 | 60 | 75 | 61 | 0.813 |
| 79676 | NM_001304833,NM | **OGFOD2** | 2-oxoglutarate and iron c | protein_coding | 15 | 17 | 16 | 18 | 1.092 |
| 79677 | NM_001142286,NM | **SMC6** | structural maintenance o | protein_coding | 40 | 36 | 41 | 37 | 0.906 |
| 79679 | NM_001253849,NM | **VTCN1** | V-set domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79680 | NM_024627 | **RTL10** | retrotransposon Gag like | protein_coding | 10 | 9 | 11 | 10 | 0.970 |
| 79682 | NM_024629,NR_10 | **CENPU** | centromere protein U | protein_coding | 42 | 43 | 43 | 44 | 1.036 |
| 79683 | NM_024630,NM_15 | **ZDHHC14** | zinc finger DHHC-type pa | protein_coding | 14 | 12 | 15 | 13 | 0.894 |
| 79684 | NM_001308027,NM | **MSANTD2** | Myb/SANT DNA binding | protein_coding | 9 | 9 | 10 | 10 | 1.051 |
| 79685 | NM_001131062,NM | **SAP30L** | SAP30 like | protein_coding | 13 | 12 | 14 | 13 | 0.923 |
| 79689 | NM_001205315,NM | **STEAP4** | STEAP4 metalloreductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79690 | NM_024637 | **GAL3ST4** | galactose-3-O-sulfotrans | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 79691 | NM_001256835,NM | **QTRT2** | queuine tRNA-ribosyltrar | protein_coding | 84 | 73 | 85 | 74 | 0.871 |
| 79692 | NM_001242797,NM | **ZNF322** | zinc finger protein 322 | protein_coding | 7 | 5 | 8 | 6 | 0.770 |
| 79693 | NM_024640 | **YRDC** | yrdC N6-threonylcarbam | protein_coding | 63 | 59 | 64 | 60 | 0.935 |
| 79694 | NM_024641,XM_00 | **MANEA** | mannosidase endo-alpha | protein_coding | 13 | 9 | 14 | 10 | 0.727 |
| 79695 | NM_024642,XM_00 | **GALNT12** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79696 | NM_001042430,NM | **ZC2HC1C** | zinc finger C2HC-type co | protein_coding | 1 | 1 | 2 | 2 | 1.050 |
| 79697 | NM_024644 | **RIOX1** | ribosomal oxygenase 1 | protein_coding | 29 | 31 | 30 | 32 | 1.041 |
| 79698 | NM_001135731,NM | **ZMAT4** | zinc finger matrin-type 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79699 | NM_024646,XM_00 | **ZYG11B** | zyg-11 family member B, | protein_coding | 2 | 2 | 3 | 3 | 1.017 |
| 79701 | NM_024648,NM_17 | **OGFOD3** | 2-oxoglutarate and iron c | protein_coding | 18 | 22 | 19 | 23 | 1.164 |
| 79703 | NM_001302084,NM | **C11orf80** | chromosome 11 open rea | protein_coding | 5 | 6 | 6 | 7 | 1.096 |
| 79705 | NM_024652,XM_00 | **LRRK1** | leucine rich repeat kinas | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 79706 | NM_024653 | **PRKRIP1** | PRKR interacting protein | protein_coding | 32 | 24 | 33 | 25 | 0.755 |
| 79707 | NM_024654,XM_00 | **NOL9** | nucleolar protein 9 | protein_coding | 25 | 22 | 26 | 23 | 0.908 |
| 79709 | NM_024656,XM_00 | **COLGALT1** | collagen beta(1-O)galact | protein_coding | 129 | 131 | 130 | 132 | 1.014 |
| 79710 | NM_001085354,NM | **MORC4** | MORC family CW-type z | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79711 | NM_024658,NR_05 | **IPO4** | importin 4 | protein_coding | 88 | 87 | 89 | 88 | 0.995 |
| 79712 | NM_001006636,NM | **GTDC1** | glycosyltransferase like d | protein_coding | 7 | 6 | 8 | 7 | 0.890 |
| 79713 | NM_001346003,NM | **IGFLR1** | IGF like family receptor 1 | protein_coding | 5 | 6 | 6 | 7 | 1.097 |
| 79714 | NM_001256964,NM | **CCDC51** | coiled-coil domain contai | protein_coding | 57 | 60 | 58 | 61 | 1.048 |
| 79716 | NM_001204872,NM | **NPEPL1** | aminopeptidase like 1 | protein_coding | 5 | 6 | 6 | 7 | 1.023 |
| 79717 | NM_001077447,NM | **PPCS** | phosphopantothenoylcys | protein_coding | 25 | 28 | 26 | 29 | 1.105 |
| 79718 | NM_001321193,NM | **TBL1XR1** | TBL1X receptor 1 | protein_coding | 60 | 49 | 61 | 50 | 0.815 |
| 79719 | NM_001271885,NM | **AAGAB** | alpha and gamma adapt | protein_coding | 114 | 107 | 115 | 108 | 0.940 |

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|---|---|---|---|---|---|---|---|---|---|
| 79720 | NM_024667,XM_00! | **VPS37B** | VPS37B subunit of ESCI | protein_coding | 73 | 74 | 74 | 75 | 1.020 |
| 79722 | NM_024669,XM_01: | **ANKRD55** | ankyrin repeat domain 5! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79723 | NM_001193424,NM_ | **SUV39H2** | suppressor of variegatior | protein_coding | 31 | 27 | 32 | 28 | 0.899 |
| 79724 | NM_024671,XM_01' | **ZNF768** | zinc finger protein 768 | protein_coding | 40 | 39 | 41 | 40 | 0.975 |
| 79725 | NM_001317776,NM_ | **THAP9** | THAP domain containing | protein_coding | 2 | 1 | 3 | 2 | 0.820 |
| 79726 | NM_001324171,NM_ | **WDR59** | WD repeat domain 59 | protein_coding | 12 | 11 | 13 | 12 | 0.885 |
| 79727 | NM_024674,XM_01: | **LIN28A** | lin-28 homolog A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79728 | NM_024675,XM_01: | **PALB2** | partner and localizer of E | protein_coding | 31 | 28 | 32 | 29 | 0.916 |
| 79729 | NM_001162530,NM_ | **SH3D21** | SH3 domain containing 2 | protein_coding | 1 | 1 | 2 | 2 | 1.004 |
| 79730 | NM_001330648,NM_ | **NSUN7** | NOP2/Sun RNA methyltr | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 79731 | NM_001243251,NM_ | **NARS2** | asparaginyl-tRNA synthe | protein_coding | 32 | 31 | 33 | 32 | 0.951 |
| 79733 | NM_001256371,NM_ | **E2F8** | E2F transcription factor 8 | protein_coding | 47 | 42 | 48 | 43 | 0.891 |
| 79734 | NM_001282684,NM_ | **KCTD17** | potassium channel tetrar | protein_coding | 25 | 24 | 26 | 25 | 0.965 |
| 79735 | NM_001168222,NM_ | **TBC1D17** | TBC1 domain family mer | protein_coding | 9 | 10 | 10 | 11 | 1.111 |
| 79736 | NM_024683,XM_00( | **TEFM** | transcription elongation f | protein_coding | 18 | 19 | 19 | 20 | 1.062 |
| 79738 | NM_024685 | **BBS10** | Bardet-Biedl syndrome 1 | protein_coding | 13 | 11 | 14 | 12 | 0.878 |
| 79739 | NM_001350214,NM_ | **TTLL7** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79740 | NM_001199201,NM_ | **ZBBX** | zinc finger B-box domain | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 79741 | NM_001026383,NM_ | **CCDC7** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.916 |
| 79742 | NM_024689,NM_17( | **DIPK2B** | divergent protein kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79744 | NM_001098491,NM_ | **ZNF419** | zinc finger protein 419 | protein_coding | 11 | 9 | 12 | 10 | 0.861 |
| 79745 | NM_001287527,NM_ | **CLIP4** | CAP-Gly domain contain | protein_coding | 6 | 6 | 7 | 7 | 0.958 |
| 79746 | NM_024693,XM_01: | **ECHDC3** | enoyl-CoA hydratase dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79747 | NM_024694 | **ADGB** | androglobin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79748 | NM_021819 | **LMAN1L** | lectin, mannose binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79750 | NM_024697,XM_01: | **ZNF385D** | zinc finger protein 385D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79751 | NM_001191060,NM_ | **SLC25A22** | solute carrier family 25 m | protein_coding | 58 | 61 | 59 | 62 | 1.053 |
| 79752 | NM_001170796,NM_ | **ZFAND1** | zinc finger AN1-type con | protein_coding | 11 | 9 | 12 | 10 | 0.864 |
| 79753 | NM_024700 | **SNIP1** | Smad nuclear interacting | protein_coding | 19 | 18 | 20 | 19 | 0.943 |
| 79754 | NM_024701,NR_02- | **ASB13** | ankyrin repeat and SOC! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79755 | NM_024702 | **ZNF750** | zinc finger protein 750 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79758 | NM_001031719,NM_ | **DHRS12** | dehydrogenase/reductas | protein_coding | 2 | 2 | 3 | 3 | 0.893 |
| 79759 | NM_001172668,NM_ | **ZNF668** | zinc finger protein 668 | protein_coding | 13 | 18 | 14 | 19 | 1.290 |
| 79760 | NM_001007269,NM_ | **GEMIN7** | gem nuclear organelle a | protein_coding | 49 | 46 | 50 | 47 | 0.954 |
| 79762 | NM_024709 | **C1orf115** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79763 | NM_001136201,NM_ | **ISOC2** | isochorismatase domain | protein_coding | 226 | 248 | 227 | 249 | 1.098 |
| 79767 | NM_024712,XM_02- | **ELMO3** | engulfment and cell moti | protein_coding | 2 | 2 | 3 | 3 | 1.066 |
| 79768 | NM_024713,XM_00! | **KATNBL1** | katanin regulatory subur | protein_coding | 38 | 33 | 39 | 34 | 0.874 |
| 79770 | NM_001350735,NM_ | **TXNDC15** | thioredoxin domain conta | protein_coding | 36 | 36 | 37 | 37 | 0.999 |
| 79772 | NM_001002796,NM_ | **MCTP1** | multiple C2 and transme | protein_coding | 1 | 1 | 2 | 2 | 1.001 |
| 79774 | NM_001286732,NM_ | **GRTP1** | growth hormone regulate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79776 | NM_024721,XM_01: | **ZFHX4** | zinc finger homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79777 | NM_001135705,NM_ | **ACBD4** | acyl-CoA binding domair | protein_coding | 11 | 11 | 12 | 12 | 1.000 |
| 79778 | NM_182924,XM_01: | **MICALL2** | MICAL like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79780 | NM_001318736,NM_ | **CCDC82** | coiled-coil domain contai | protein_coding | 35 | 31 | 36 | 32 | 0.887 |
| 79781 | NM_001270584,NM_ | **IQCA1** | IQ motif containing with / | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79782 | NM_001277127,NM_ | **LRRC31** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79783 | NM_001193311,NM_ | **SUGCT** | succinyl-CoA:glutarate-C | protein_coding | 0 | 0 | 1 | 1 | 1.136 |
| 79784 | NM_001077186,NM_ | **MYH14** | myosin heavy chain 14 | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 79785 | NM_001286201,NM_ | **RERGL** | RERG like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79786 | NM_001303451,NM_ | **KLHL36** | kelch like family member | protein_coding | 6 | 5 | 7 | 6 | 0.899 |
| 79788 | NM_001353457,NM_ | **ZNF665** | zinc finger protein 665 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79789 | NM_024734,XM_01: | **CLMN** | calmin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79791 | NM_001282683,NM_ | **FBXO31** | F-box protein 31 | protein_coding | 11 | 11 | 12 | 12 | 0.957 |
| 79792 | NM_001166237,NM_ | **GSDMD** | gasdermin D | protein_coding | 35 | 35 | 36 | 36 | 1.010 |
| 79794 | NM_001353623,NM_ | **SPRING1** | SREBF pathway regulate | protein_coding | 33 | 33 | 34 | 34 | 1.006 |
| 79796 | NM_001077690,NM_ | **ALG9** | ALG9 alpha-1,2-mannos | protein_coding | 11 | 12 | 12 | 13 | 1.071 |
| 79797 | NM_001184751,NM_ | **ZNF408** | zinc finger protein 408 | protein_coding | 13 | 18 | 14 | 19 | 1.354 |
| 79798 | NM_001105247,NM_ | **ARMC5** | armadillo repeat containi | protein_coding | 24 | 28 | 25 | 29 | 1.151 |
| 79799 | NM_024743,NR_02- | **UGT2A3** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79800 | NM_001104586,NM_ | **CARF** | calcium responsive trans | protein_coding | 3 | 3 | 4 | 4 | 0.965 |
| 79801 | NM_001324318,NM_ | **SHCBP1** | SHC binding and spindle | protein_coding | 39 | 36 | 40 | 37 | 0.911 |
| 79802 | NM_024746,XM_01: | **HHIPL2** | HHIP like 2 | protein_coding | 0 | 2 | 1 | 3 | 2.718 |
| 79803 | NM_024747 | **HPS6** | HPS6 biogenesis of lyso | protein_coding | 17 | 20 | 18 | 21 | 1.123 |
| 79804 | NR_003679,NR_13( | **HAND2-AS1** | HAND2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79805 | NM_001136474,NM_ | **VASH2** | vasohibin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79807 | NM_001031720,NM_ | **GSTCD** | glutathione S-transferas | protein_coding | 21 | 16 | 22 | 17 | 0.764 |
| 79809 | NM_024753,XM_00( | **TTC21B** | tetratricopeptide repeat c | protein_coding | 12 | 12 | 13 | 13 | 0.983 |
| 79810 | NM_001284403,NM_ | **PTCD2** | pentatricopeptide repeat | protein_coding | 6 | 7 | 7 | 8 | 1.011 |
| 79811 | NM_001013843,NM_ | **SLTM** | SAFB like transcription m | protein_coding | 129 | 125 | 130 | 126 | 0.967 |
| 79812 | NM_024756,XM_00! | **MMRN2** | multimerin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 79813 | NM_001145527,NM_ | **EHMT1** | euchromatic histone lysi | protein_coding | 38 | 33 | 39 | 34 | 0.864 |
| 79814 | NM_024758 | **AGMAT** | agmatinase | protein_coding | 1 | 2 | 2 | 3 | 1.235 |
| 79815 | NM_001321635,NM_ | **NIPAL2** | NIPA like domain contair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79816 | NM_001143986,NM_ | **TLE6** | TLE family member 6, su | protein_coding | 4 | 4 | 5 | 5 | 1.111 |
| 79817 | NM_024761 | **MOB3B** | MOB kinase activator 3B | protein_coding | 0 | 0 | 1 | 1 | 0.958 |
| 79818 | NM_024762,XM_00! | **ZNF552** | zinc finger protein 552 | protein_coding | 15 | 17 | 16 | 18 | 1.130 |
| 79819 | NM_024763,NM_20 | **DNAI4** | dynein axonemal interme | protein_coding | 0 | 0 | 1 | 1 | 1.170 |
| 79820 | NM_024764 | **CATSPERB** | cation channel sperm as | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 79822 | NM_001010000,NM_ | **ARHGAP28** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79823 | NM_024766,XM_01: | **CAMKMT** | calmodulin-lysine N-mett | protein_coding | 11 | 9 | 12 | 10 | 0.833 |
| 79825 | NM_001377500,NM_ | **EFCC1** | EF-hand and coiled-coil | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 79827 | NM_024769 | **CLMP** | CXADR like membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79828 | NM_001321154,NM_ | **METTL8** | methyltransferase like 8 | protein_coding | 4 | 4 | 5 | 5 | 0.887 |
| 79829 | NM_001300800,NM_ | **NAA40** | N-alpha-acetyltransferas | protein_coding | 41 | 42 | 42 | 43 | 1.031 |
| 79830 | NM_001289088,NM_ | **ZMYM1** | zinc finger MYM-type cor | protein_coding | 17 | 14 | 18 | 15 | 0.801 |
| 79831 | NM_001145348,NM_ | **KDM8** | lysine demethylase 8 | protein_coding | 6 | 6 | 7 | 7 | 0.946 |
| 79832 | NM_001076786,XM_ | **QSER1** | glutamine and serine rict | protein_coding | 16 | 14 | 17 | 15 | 0.861 |
| 79833 | NM_024775 | **GEMIN6** | gem nuclear organelle a | protein_coding | 21 | 22 | 22 | 23 | 1.062 |
| 79834 | NM_024776,XM_00! | **PEAK1** | pseudopodium enriched | protein_coding | 7 | 5 | 8 | 6 | 0.753 |
| 79836 | NM_001031855,NM_ | **LONRF3** | LON peptidase N-termin | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 79837 | NM_001146258,NM_ | **PIP4K2C** | phosphatidylinositol-5-ph | protein_coding | 19 | 19 | 20 | 20 | 0.987 |
| 79838 | NM_001105248,NM_ | **TMC5** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79839 | NM_001093729,NM_ | **CCDC102B** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.173 |
| 79840 | NM_001377498,NM_ | **NHEJ1** | non-homologous end joi | protein_coding | 8 | 9 | 9 | 10 | 1.114 |
| 79841 | NM_024783,XM_00! | **AGBL2** | ATP/GTP binding protein | protein_coding | 1 | 2 | 2 | 3 | 1.076 |
| 79842 | NM_001363108,NM_ | **ZBTB3** | zinc finger and BTB dom | protein_coding | 3 | 3 | 4 | 4 | 0.914 |
| 79843 | NM_001122779,NM_ | **FAM124B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79844 | NM_024786,XM_01' | **ZDHHC11** | zinc finger DHHC-type co | protein_coding | 7 | 8 | 8 | 9 | 1.125 |
| 79845 | NM_024787,XM_01' | **RNF122** | ring finger protein 122 | protein_coding | 24 | 21 | 25 | 22 | 0.869 |
| 79846 | NM_001039706,NM_ | **CFAP69** | cilia and flagella associa | protein_coding | 1 | 1 | 2 | 2 | 1.022 |
| 79847 | NM_024789,XM_00( | **MFSD13A** | major facilitator superfan | protein_coding | 8 | 7 | 9 | 8 | 0.966 |
| 79848 | NM_001291339,NM_ | **CSPP1** | centrosome and spindle | protein_coding | 12 | 12 | 13 | 13 | 0.955 |
| 79849 | NM_001168468,NM_ | **PDZD3** | PDZ domain containing 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79850 | NM_001318006,NM_ | **TLCD3A** | TLC domain containing 3 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 79852 | NM_001142886,NM_ | **EPHX3** | epoxide hydrolase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 79853 | NM_024795,XM_01: | **TM4SF20** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79854 | NR_024321 | **LINC00115** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 0.979 |
| 79856 | NM_024798,NR_07: | **SNX22** | sorting nexin 22 | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 79857 | NR_026806 | **FLJ13224** | uncharacterized LOC798 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79858 | NM_001146003,NM_ | **NEK11** | NIMA related kinase 11 | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 79861 | NM_001171864,NM_ | **TUBAL3** | tubulin alpha like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79862 | NM_001142572,NM_ | **ZNF669** | zinc finger protein 669 | protein_coding | 5 | 4 | 6 | 5 | 0.827 |
| 79863 | NM_001171967,NM_ | **RBFA** | ribosome binding factor / | protein_coding | 15 | 16 | 16 | 17 | 1.030 |
| 79864 | NM_001363087,NM_ | **JHY** | junctional cadherin comp | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 79865 | NM_024807,XM_01: | **TREML2** | triggering receptor expre | protein_coding | 18 | 17 | 19 | 18 | 0.927 |
| 79866 | NM_001286746,NM_ | **BORA** | BORA aurora kinase A a | protein_coding | 36 | 37 | 37 | 38 | 1.039 |
| 79867 | NM_001143850,NM_ | **TCTN2** | tectonic family member 2 | protein_coding | 3 | 4 | 4 | 5 | 1.089 |
| 79868 | NM_001039210,NM_ | **ALG13** | ALG13 UDP-N-acetylglu | protein_coding | 12 | 13 | 13 | 14 | 1.120 |
| 79869 | NM_001136040,NM_ | **CPSF7** | cleavage and polyadenyl | protein_coding | 116 | 117 | 117 | 118 | 1.003 |
| 79870 | NM_001024372,NM_ | **BAALC** | BAALC binder of MAP3K | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 79871 | NM_024813,XM_00! | **RPAP2** | RNA polymerase II assoc | protein_coding | 12 | 10 | 13 | 11 | 0.843 |
| 79872 | NM_001284291,NM_ | **CBLL1** | Cbl proto-oncogene like | protein_coding | 30 | 29 | 31 | 30 | 0.975 |
| 79873 | NM_024815,XM_01: | **NUDT18** | nudix hydrolase 18 | protein_coding | 5 | 5 | 6 | 6 | 0.997 |
| 79874 | NM_024816 | **RABEP2** | rabaptin, RAB GTPase b | protein_coding | 13 | 18 | 14 | 19 | 1.306 |
| 79875 | NM_001286429,NM_ | **THSD4** | thrombospondin type 1 d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 79876 | NM_001320210,NM | **UBA5** | ubiquitin like modifier act | protein_coding | 33 | 29 | 34 | 30 | 0.898 |
| 79877 | NM_001128631,NM | **DCAKD** | dephospho-CoA kinase d | protein_coding | 13 | 13 | 14 | 14 | 1.016 |
| 79879 | NM_001304797,NM | **CCDC134** | coiled-coil domain contai | protein_coding | 13 | 11 | 14 | 12 | 0.856 |
| 79882 | NM_001160103,NM | **ZC3H14** | zinc finger CCCH-type c | protein_coding | 10 | 10 | 11 | 11 | 0.984 |
| 79883 | NM_001146254,NM | **PODNL1** | podocan like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79884 | NM_001039580,XM | **MAP9** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79885 | NM_001136041,NM | **HDAC11** | histone deacetylase 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79886 | NM_001167575,NM | **CAAP1** | caspase activity and apo | protein_coding | 29 | 25 | 30 | 26 | 0.859 |
| 79887 | NM_024829 | **PLBD1** | phospholipase B domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79888 | NM_024830,XM_005 | **LPCAT1** | lysophosphatidylcholine | protein_coding | 49 | 44 | 50 | 45 | 0.894 |
| 79890 | NM_001319987,NM | **RIN3** | Ras and Rab interactor 3 | protein_coding | 52 | 53 | 53 | 54 | 1.017 |
| 79891 | NM_001321375,NM | **ZNF671** | zinc finger protein 671 | protein_coding | 15 | 15 | 16 | 16 | 1.007 |
| 79892 | NM_001256378,NM | **MCMBP** | minichromosome mainte | protein_coding | 119 | 109 | 120 | 110 | 0.920 |
| 79893 | NM_024835,XM_005 | **GGNBP2** | gametogenetin binding p | protein_coding | 61 | 62 | 62 | 63 | 1.021 |
| 79894 | NM_024836,XM_005 | **ZNF672** | zinc finger protein 672 | protein_coding | 18 | 20 | 19 | 21 | 1.104 |
| 79895 | NM_024837,NR_07 | **ATP8B4** | ATPase phospholipid tra | protein_coding | 14 | 13 | 15 | 14 | 0.917 |
| 79896 | NM_024838,XM_005 | **THNSL1** | threonine synthase like 1 | protein_coding | 2 | 2 | 3 | 3 | 0.918 |
| 79897 | NM_001199120,NM | **RPP21** | ribonuclease P/MRP sub | protein_coding | 90 | 86 | 91 | 87 | 0.959 |
| 79898 | NM_001031721,NM | **ZNF613** | zinc finger protein 613 | protein_coding | 2 | 2 | 3 | 3 | 1.030 |
| 79899 | NM_001160167,NM | **PRR5L** | proline rich 5 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79901 | NM_001127383,NM | **CYBRD1** | cytochrome b reductase | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 79902 | NM_001303276,NM | **NUP85** | nucleoporin 85 | protein_coding | 83 | 79 | 84 | 80 | 0.957 |
| 79903 | NM_001083600,NM | **NAA60** | N-alpha-acetyltransferas | protein_coding | 55 | 57 | 56 | 58 | 1.027 |
| 79905 | NM_001160364,NM | **TMC7** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79906 | NM_001301060,NM | **MORN1** | MORN repeat containing | protein_coding | 3 | 2 | 4 | 3 | 0.727 |
| 79908 | NM_001040462,NM | **BTNL8** | butyrophilin like 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79912 | NM_001350912,NM | **PYROXD1** | pyridine nucleotide-disul | protein_coding | 6 | 7 | 7 | 8 | 1.035 |
| 79913 | NM_024855 | **ACTR5** | actin related protein 5 | protein_coding | 31 | 27 | 32 | 28 | 0.880 |
| 79915 | NM_024857,XM_01 | **ATAD5** | ATPase family AAA dom | protein_coding | 25 | 19 | 26 | 20 | 0.792 |
| 79917 | NM_001099681,NM | **MAGIX** | MAGI family member, X-l | protein_coding | 0 | 0 | 1 | 1 | 1.200 |
| 79918 | NM_001160305,NM | **SETD6** | SET domain containing 6 | protein_coding | 9 | 7 | 10 | 8 | 0.830 |
| 79919 | NM_001085437,NM | **MAB21L4** | mab-21 like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79921 | NM_001006935,NM | **TCEAL4** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79922 | NM_024864,XM_005 | **MRM1** | mitochondrial rRNA meth | protein_coding | 69 | 64 | 70 | 65 | 0.929 |
| 79923 | NM_001297698,NM | **NANOG** | Nanog homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79924 | NM_001253845,NM | **ADM2** | adrenomedullin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79925 | NM_024867,NM_14 | **SPEF2** | sperm flagellar 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79927 | NM_024869 | **FAM110D** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79929 | NM_024871,XR_001 | **MAP6D1** | MAP6 domain containing | protein_coding | 4 | 5 | 5 | 6 | 1.220 |
| 79930 | NM_001144875,NM | **DOK3** | docking protein 3 | protein_coding | 5 | 8 | 6 | 9 | 1.501 |
| 79931 | NM_001128843,NM | **TNIP3** | TNFAIP3 interacting prot | protein_coding | 1 | 1 | 2 | 2 | 0.848 |
| 79932 | NM_024874,XM_00 | **KIAA0319L** | KIAA0319 like | protein_coding | 20 | 20 | 21 | 21 | 1.014 |
| 79933 | NM_001114133,NM | **SYNPO2L** | synaptopodin 2 like | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 79934 | NM_001142555,NM | **COQ8B** | coenzyme Q8B | protein_coding | 10 | 11 | 11 | 12 | 1.118 |
| 79935 | NM_024877,XM_00 | **CCNP** | cyclin P | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 79937 | NM_033655 | **CNTNAP3** | contactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79939 | NM_024881 | **SLC35E1** | solute carrier family 35 m | protein_coding | 42 | 38 | 43 | 39 | 0.899 |
| 79940 | NR_026807,NR_12 | **LINC00472** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 79943 | NM_030895 | **ZNF696** | zinc finger protein 696 | protein_coding | 4 | 4 | 5 | 5 | 1.071 |
| 79944 | NM_024884,XM_005 | **L2HGDH** | L-2-hydroxyglutarate deh | protein_coding | 18 | 16 | 19 | 17 | 0.902 |
| 79946 | NM_001363580 | **C10orf95** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.755 |
| 79947 | NM_001243564,NM | **DHDDS** | dehydrodolichyl diphosp | protein_coding | 36 | 35 | 37 | 36 | 0.975 |
| 79948 | NM_001270366,NM | **PLPPR3** | phospholipid phosphatas | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 79949 | NM_001193434,NM | **PLEKHS1** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 79953 | NM_001323606,NM | **SYNDIG1** | synapse differentiation in | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79954 | NM_001261392,NM | **NOL10** | nucleolar protein 10 | protein_coding | 52 | 58 | 53 | 59 | 1.116 |
| 79955 | NM_001195263,NM | **PDZD7** | PDZ domain containing 7 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 79956 | NM_024896,XM_005 | **ERMP1** | endoplasmic reticulum m | protein_coding | 25 | 21 | 26 | 22 | 0.850 |
| 79957 | NM_001272104,NM | **PAQR6** | progestin and adipoQ rec | protein_coding | 4 | 4 | 5 | 5 | 0.930 |
| 79958 | NM_001290331,NM | **DENND1C** | DENN domain containing | protein_coding | 61 | 59 | 62 | 60 | 0.975 |
| 79959 | NM_001271989,NM | **CEP76** | centrosomal protein 76 | protein_coding | 11 | 11 | 12 | 12 | 1.005 |
| 79960 | NM_001287437,NM | **JADE1** | jade family PHD finger 1 | protein_coding | 20 | 19 | 21 | 20 | 0.948 |
| 79961 | NM_001271833,NM | **DENND2D** | DENN domain containing | protein_coding | 120 | 117 | 121 | 118 | 0.973 |
| 79962 | NM_001304944,NM | **DNAJC22** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79963 | NR_002451 | **ABCA11P** | ATP binding cassette sul | transcribed_pseu | 11 | 12 | 12 | 13 | 1.044 |
| 79966 | NM_001037582,NM | **SCD5** | stearoyl-CoA desaturase | protein_coding | 5 | 4 | 6 | 5 | 0.911 |
| 79968 | NM_001167941,NM | **WDR76** | WD repeat domain 76 | protein_coding | 85 | 74 | 86 | 75 | 0.876 |
| 79969 | NM_001031722,NM | **ATAT1** | alpha tubulin acetyltrans | protein_coding | 6 | 6 | 7 | 7 | 1.026 |
| 79970 | NR_027788,NR_02 | **ZNF767P** | zinc finger family membe | transcribed_pseu | 6 | 5 | 7 | 6 | 0.876 |
| 79971 | NM_001002292,NM | **WLS** | Wnt ligand secretion me | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 79973 | NM_001363774,NM | **ZNF442** | zinc finger protein 442 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79974 | NM_001105533,NM | **CPED1** | cadherin like and PC-est | protein_coding | 0 | 0 | 1 | 1 | 0.842 |
| 79977 | NM_001330593,NM | **GRHL2** | grainyhead like transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79979 | NM_001167970,NM | **TRMT2B** | tRNA methyltransferase | protein_coding | 15 | 16 | 16 | 17 | 1.095 |
| 79980 | NM_001145315,NM | **DSN1** | DSN1 component of MIS | protein_coding | 82 | 82 | 83 | 83 | 0.999 |
| 79981 | NM_001122841,NM | **FRMD1** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 79982 | NM_001031723,NM | **DNAJB14** | DnaJ heat shock protein | protein_coding | 27 | 23 | 28 | 24 | 0.859 |
| 79983 | NM_001307940,NM | **POF1B** | POF1B actin binding pro | protein_coding | 1 | 0 | 2 | 1 | 0.897 |
| 79986 | NR_003578 | **ZNF702P** | zinc finger protein 702, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 79987 | NM_153366 | **SVEP1** | sushi, von Willebrand fac | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 79989 | NM_001144920,NM | **TTC26** | tetratricopeptide repeat d | protein_coding | 14 | 11 | 15 | 12 | 0.831 |
| 79990 | NM_024927,NR_07 | **PLEKHH3** | pleckstrin homology, My | protein_coding | 4 | 4 | 5 | 5 | 0.957 |
| 79991 | NM_024928 | **STN1** | STN1 subunit of CST co | protein_coding | 12 | 12 | 13 | 13 | 1.044 |
| 79992 | NR_024277 | **AGPAT4-IT1** | AGPAT4 intronic transcri | lncRNA | 0 | 0 | 1 | 1 | 0.791 |
| 79993 | NM_001104558,NM | **ELOVL7** | ELOVL fatty acid elonga | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 79998 | NM_001115116,NM | **ANKRD53** | ankyrin repeat domain 5 | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 79999 | NR_160285 | **LOC79999** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80000 | NM_001142966,XM | **GREB1L** | GREB1 like retinoic acid | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80003 | NM_001328607,NM | **PCNX2** | pecanex 2 | protein_coding | 9 | 7 | 10 | 8 | 0.769 |
| 80004 | NM_001365264,NM | **ESRP2** | epithelial splicing regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80005 | NM_001322810,NM | **DOCK5** | dedicator of cytokinesis 5 | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 80006 | NM_001093755,NM | **TRAPPC13** | trafficking protein particle | protein_coding | 36 | 35 | 37 | 36 | 0.989 |
| 80007 | NM_024942,XR_001 | **C10orf88** | chromosome 10 open rea | protein_coding | 8 | 8 | 9 | 9 | 1.025 |
| 80008 | NM_001303228,NM | **TMEM156** | transmembrane protein 1 | protein_coding | 11 | 11 | 12 | 12 | 0.936 |
| 80010 | NM_001358291,NM | **RMI1** | RecQ mediated genome | protein_coding | 28 | 27 | 29 | 28 | 0.966 |
| 80011 | NM_001354078,NM | **PSME3IP1** | proteasome activator sub | protein_coding | 50 | 51 | 51 | 52 | 1.008 |
| 80012 | NM_001308116,NM | **PHC3** | polyhomeotic homolog 3 | protein_coding | 16 | 13 | 17 | 14 | 0.803 |
| 80013 | NM_001318330,NM | **MINDY3** | MINDY lysine 48 deubiqu | protein_coding | 14 | 12 | 15 | 13 | 0.904 |
| 80014 | NM_024949,XM_01 | **WWC2** | WW and C2 domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80017 | NM_001102366,NM | **DGLUCY** | D-glutamate cyclase | protein_coding | 17 | 18 | 18 | 19 | 1.016 |
| 80018 | NM_024953,XM_005 | **NAA25** | N-alpha-acetyltransferas | protein_coding | 35 | 29 | 36 | 30 | 0.833 |
| 80019 | NM_024954 | **UBTD1** | ubiquitin domain contain | protein_coding | 1 | 1 | 2 | 2 | 0.689 |
| 80020 | NM_001102371,NM | **FOXRED2** | FAD dependent oxidored | protein_coding | 24 | 28 | 25 | 29 | 1.149 |
| 80021 | NM_001347004,NM | **TMEM62** | transmembrane protein 6 | protein_coding | 37 | 35 | 38 | 36 | 0.945 |
| 80022 | NM_001309242,XM | **MYO15B** | myosin XVB | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80023 | NM_001323679,NM | **NRSN2** | neurensin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 80024 | NM_001330466,NM | **SLC8B1** | solute carrier family 8 me | protein_coding | 0 | 0 | 1 | 1 | 0.922 |
| 80025 | NM_001324191,NM | **PANK2** | pantothenate kinase 2 | protein_coding | 24 | 25 | 25 | 26 | 1.071 |
| 80028 | NM_001321213,NM | **FBXL18** | F-box and leucine rich re | protein_coding | 10 | 10 | 11 | 11 | 0.943 |
| 80031 | NM_001198999,NM | **SEMA6D** | semaphorin 6D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80032 | NM_001300843,NM | **ZNF556** | zinc finger protein 556 | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 80034 | NM_001172173,NM | **CSRNP3** | cysteine and serine rich | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 80035 | NR_026808 | **ANP32A-IT1** | ANP32A intronic transcri | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 80036 | NM_001007470,NM | **TRPM3** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 80039 | NM_024974 | **FAM106A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.073 |
| 80045 | NM_024980,XM_005 | **GPR157** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80054 | NR_026887 | **CEBPA-DT** | CEBPA divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80055 | NM_001321099,NM | **PGAP1** | post-GPI attachment to p | protein_coding | 7 | 6 | 8 | 7 | 0.799 |
| 80059 | NM_001134745,NM | **LRRTM4** | leucine rich repeat transı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80060 | gene-GNL3LP1 | **GNL3LP1** | G protein nucleolar 3 like | pseudogene | 1 | 1 | 2 | 2 | 0.934 |
| 80063 | NM_001256160,NM | **ATF7IP2** | activating transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80067 | NM_001164821,NM | **DCAF17** | DDB1 and CUL4 associa | protein_coding | 23 | 23 | 24 | 24 | 1.002 |
| 80069 | NR_026780 | **LINC00574** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80070 | NM_025003,XM_01 | **ADAMTS20** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80071 | NM_025004,XM_01 | **CCDC15** | coiled-coil domain contai | protein_coding | 4 | 3 | 5 | 4 | 0.894 |
| 80072 | NR_027262 | **HEXA-AS1** | HEXA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 80078 | NR_130915 | **LCAL1** | lung cancer associated l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80086 | NM_001355221 | **TUBA4B** | tubulin alpha 4b | protein_coding | 0 | 0 | 1 | 1 | 0.806 |
| 80094 | NR_027715 | **BIN3-IT1** | BIN3 intronic transcript 1 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 80095 | NM_001348022,NM | **ZNF606** | zinc finger protein 606 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80097 | NM_001330282,NM | **MZT2B** | mitotic spindle organizin | protein_coding | 243 | 285 | 244 | 286 | 1.173 |
| 80099 | NR_161268,NR_16 | **C7orf69** | chromosome 7 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80108 | NM_030613 | **ZFP2** | ZFP2 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80110 | NM_025040 | **ZNF614** | zinc finger protein 614 | protein_coding | 9 | 8 | 10 | 9 | 0.930 |
| 80111 | NR_161373 | **C3orf36** | chromosome 3 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 80114 | NM_001080512,XM | **BICC1** | BicC family RNA binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80115 | NM_025045,XM_00 | **BAIAP2L2** | BAR/IMD domain contair | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 80117 | NM_025047 | **ARL14** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80119 | NM_001286496,NM | **PIF1** | PIF1 5'-to-3' DNA helicas | protein_coding | 27 | 25 | 28 | 26 | 0.906 |
| 80122 | NM_001018044,NM | **MAP3K19** | mitogen-activated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80124 | NM_025054 | **VCPIP1** | valosin containing protei | protein_coding | 12 | 10 | 13 | 11 | 0.893 |
| 80125 | NM_001287181,NM | **CCDC33** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 80127 | NM_025057,XM_00 | **BBOF1** | basal body orientation fa | protein_coding | 1 | 1 | 2 | 2 | 1.097 |
| 80128 | NM_001256599,NM | **TRIM46** | tripartite motif containing | protein_coding | 5 | 5 | 6 | 6 | 1.108 |
| 80129 | NM_025059,XM_01 | **CCDC170** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.075 |
| 80131 | NM_001268284,NM | **LRRC8E** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80133 | NM_001163629,NM | **MROH9** | maestro heat like repeat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80135 | NM_025065 | **RPF1** | ribosome production fact | protein_coding | 103 | 102 | 104 | 103 | 0.984 |
| 80139 | NM_025069 | **ZNF703** | zinc finger protein 703 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80142 | NM_001256335,NM | **PTGES2** | prostaglandin E synthas | protein_coding | 71 | 78 | 72 | 79 | 1.092 |
| 80143 | NM_001102396,NM | **SIKE1** | suppressor of IKBKE 1 | protein_coding | 74 | 63 | 75 | 64 | 0.850 |
| 80144 | NM_001166133,NM | **FRAS1** | Fraser extracellular matri | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 80145 | NM_001285387,NM | **THOC7** | THO complex 7 | protein_coding | 139 | 145 | 140 | 146 | 1.041 |
| 80146 | NM_001253875,NM | **UXS1** | UDP-glucuronate decarb | protein_coding | 21 | 22 | 22 | 23 | 1.018 |
| 80148 | NM_001146343,NM | **SLC66A2** | solute carrier family 66 m | protein_coding | 18 | 21 | 19 | 22 | 1.143 |
| 80149 | NM_001323550,NM | **ZC3H12A** | zinc finger CCCH-type c | protein_coding | 23 | 22 | 24 | 23 | 0.953 |
| 80150 | NM_001083926,NM | **ASRGL1** | asparaginase and isoasp | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 80152 | NM_025082,XM_01 | **CENPT** | centromere protein T | protein_coding | 32 | 30 | 33 | 31 | 0.935 |
| 80153 | NM_001142443,NM | **EDC3** | enhancer of mRNA deca | protein_coding | 47 | 44 | 48 | 45 | 0.951 |
| 80154 | NR_026811,NR_03 | **GOLGA2P10** | GOLGA2 pseudogene 1( | transcribed_pseu | 26 | 23 | 27 | 24 | 0.891 |
| 80155 | NM_057175,XM_00 | **NAA15** | N-alpha-acetyltransferas | protein_coding | 87 | 74 | 88 | 75 | 0.854 |
| 80157 | NM_001286791,NM | **CWH43** | cell wall biogenesis 43 C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80161 | NR_026710,NR_02 | **ASMTL-AS1** | ASMTL antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.874 |
| 80162 | NM_025092,XM_01 | **PGGHG** | protein-glucosylgalactosy | protein_coding | 1 | 1 | 2 | 2 | 0.979 |
| 80164 | NM_001190467,NR | **PRR36** | proline rich 36 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80167 | NM_001039717,NM | **ABHD18** | abhydrolase domain con | protein_coding | 14 | 12 | 15 | 13 | 0.885 |
| 80168 | NM_025098,XM_01 | **MOGAT2** | monoacylglycerol O-acyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80169 | NM_025099,NR_04 | **CTC1** | CST telomere replication | protein_coding | 9 | 8 | 10 | 9 | 0.977 |
| 80173 | NM_001099222,NM | **IFT74** | intraflagellar transport 74 | protein_coding | 5 | 5 | 6 | 6 | 0.980 |
| 80174 | NM_025104,NM_14 | **DBF4B** | DBF4 zinc finger B | protein_coding | 36 | 35 | 37 | 36 | 0.965 |
| 80176 | NM_025106 | **SPSB1** | splA/ryanodine receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80177 | NM_001371624,NM | **MYCT1** | MYC target 1 | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 80178 | NM_025108,XM_01 | **TEDC2** | tubulin epsilon and delta | protein_coding | 30 | 34 | 31 | 35 | 1.103 |
| 80179 | NM_001033580,NM | **MYO19** | myosin XIX | protein_coding | 78 | 73 | 79 | 74 | 0.931 |
| 80183 | NM_001286761,NM | **RUBCNL** | rubicon like autophagy e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80184 | NM_025114,XM_01 | **CEP290** | centrosomal protein 290 | protein_coding | 9 | 7 | 10 | 8 | 0.768 |
| 80185 | NM_001102401,NM | **TTI2** | TELO2 interacting protei | protein_coding | 49 | 46 | 50 | 47 | 0.941 |
| 80194 | NM_001078650,NM | **TMEM134** | transmembrane protein 1 | protein_coding | 12 | 14 | 13 | 15 | 1.145 |
| 80195 | NM_001270367,NM | **TMEM254** | transmembrane protein 2 | protein_coding | 9 | 8 | 10 | 9 | 0.986 |
| 80196 | NM_001256858,NM | **RNF34** | ring finger protein 34 | protein_coding | 100 | 109 | 101 | 110 | 1.087 |
| 80198 | NM_001350283,NM | **MUS81** | MUS81 structure-specific | protein_coding | 56 | 57 | 57 | 58 | 1.019 |
| 80199 | NM_001171937,NM | **FUZ** | fuzzy planar cell polarity | protein_coding | 13 | 15 | 14 | 16 | 1.177 |
| 80201 | NM_025130,XM_01 | **HKDC1** | hexokinase domain conta | protein_coding | 3 | 3 | 4 | 4 | 0.982 |
| 80204 | NM_001190274,NM | **FBXO11** | F-box protein 11 | protein_coding | 16 | 14 | 17 | 15 | 0.867 |
| 80205 | NM_001308319,NM | **CHD9** | chromodomain helicase I | protein_coding | 13 | 11 | 14 | 12 | 0.835 |
| 80206 | NM_001281739,NM | **FHOD3** | formin homology 2 doma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80207 | NM_001017989,NM | **OPA3** | outer mitochondrial mem | protein_coding | 20 | 19 | 21 | 20 | 0.963 |
| 80208 | NM_001160227,NM | **SPG11** | SPG11 vesicle trafficking | protein_coding | 14 | 12 | 15 | 13 | 0.881 |
| 80209 | NM_025138,NM_17 | **PROSER1** | proline and serine rich 1 | protein_coding | 53 | 52 | 54 | 53 | 0.972 |
| 80210 | NM_001271466,NM | **ARMC9** | armadillo repeat containi | protein_coding | 6 | 8 | 7 | 9 | 1.315 |
| 80212 | NM_001304957,NM | **CCDC92** | coiled-coil domain contai | protein_coding | 7 | 7 | 8 | 8 | 0.943 |
| 80213 | NM_001307960,NM | **TM2D3** | TM2 domain containing 3 | protein_coding | 105 | 103 | 106 | 104 | 0.979 |
| 80215 | NR_026812 | **RUNX1-IT1** | RUNX1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 80216 | NM_001102406,NM | **ALPK1** | alpha kinase 1 | protein_coding | 2 | 1 | 3 | 2 | 0.761 |
| 80217 | NM_025145,XM_00 | **CFAP43** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 80218 | NM_001308445,NM | **NAA50** | N-alpha-acetyltransferas | protein_coding | 255 | 222 | 256 | 223 | 0.873 |
| 80219 | NM_001320818,NM | **COQ10B** | coenzyme Q10B | protein_coding | 54 | 47 | 55 | 48 | 0.866 |
| 80221 | NM_001288968,NM | **ACSF2** | acyl-CoA synthetase fam | protein_coding | 2 | 2 | 3 | 3 | 1.024 |
| 80222 | NM_001271895,NM | **TARS2** | threonyl-tRNA synthetas | protein_coding | 70 | 70 | 71 | 71 | 1.000 |
| 80223 | NM_001002814,NM | **RAB11FIP1** | RAB11 family interacting | protein_coding | 91 | 89 | 92 | 90 | 0.983 |
| 80224 | NM_001201573,NM | **NUBPL** | nucleotide binding protei | protein_coding | 8 | 8 | 9 | 9 | 1.068 |
| 80227 | NM_001267803,NM | **PAAF1** | proteasomal ATPase ass | protein_coding | 23 | 23 | 24 | 24 | 1.011 |
| 80228 | NM_001126340,NM | **ORAI2** | ORAI calcium release-ac | protein_coding | 35 | 34 | 36 | 35 | 0.958 |
| 80230 | NM_001040451,NM | **RUFY1** | RUN and FYVE domain c | protein_coding | 28 | 27 | 29 | 28 | 0.973 |
| 80231 | NM_025159 | **CXorf21** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 80232 | NM_001115113,NM | **WDR26** | WD repeat domain 26 | protein_coding | 32 | 30 | 33 | 31 | 0.930 |
| 80233 | NM_025161,NR_03 | **FAAP100** | FA core complex associa | protein_coding | 28 | 31 | 29 | 32 | 1.103 |
| 80235 | NM_025163,XM_01 | **PIGZ** | phosphatidylinositol glyc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80237 | NM_025165 | **ELL3** | elongation factor for RNA | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 80243 | NM_024870,NM_02 | **PREX2** | phosphatidylinositol-3,4,! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80254 | NM_001042383,NM | **CEP63** | centrosomal protein 63 | protein_coding | 20 | 21 | 21 | 22 | 1.015 |
| 80255 | NM_001330314,NM | **SLC35F5** | solute carrier family 35 m | protein_coding | 15 | 14 | 16 | 15 | 0.903 |
| 80256 | NM_001317991,NM | **FAM214B** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 1.098 |
| 80258 | NM_025184,XM_00 | **EFHC2** | EF-hand domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80262 | NM_001320540,NM | **C16orf70** | chromosome 16 open rea | protein_coding | 22 | 24 | 23 | 25 | 1.064 |
| 80263 | NM_001145635,NM | **TRIM45** | tripartite motif containing | protein_coding | 1 | 0 | 2 | 1 | 0.642 |
| 80264 | NM_001172671,NM | **ZNF430** | zinc finger protein 430 | protein_coding | 9 | 8 | 10 | 9 | 0.906 |
| 80267 | NM_001319960,NM | **EDEM3** | ER degradation enhanci | protein_coding | 27 | 23 | 28 | 24 | 0.858 |
| 80270 | NM_001142777,NM | **HSD3B7** | hydroxy-delta-5-steroid d | protein_coding | 2 | 2 | 3 | 3 | 1.237 |
| 80271 | NM_025194,XM_01 | **ITPKC** | inositol-trisphosphate 3-k | protein_coding | 4 | 5 | 5 | 6 | 1.070 |
| 80273 | NM_025196 | **GRPEL1** | GrpE like 1, mitochondria | protein_coding | 125 | 120 | 126 | 121 | 0.966 |
| 80274 | NM_173050 | **SCUBE1** | signal peptide, CUB dom | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 80279 | NM_001278197,NM | **CDK5RAP3** | CDK5 regulatory subunit | protein_coding | 70 | 81 | 71 | 82 | 1.159 |
| 80298 | NM_001033050,NM | **MTERF2** | mitochondrial transcriptic | protein_coding | 2 | 1 | 3 | 2 | 0.928 |
| 80301 | NM_001195059,NM | **PLEKHO2** | pleckstrin homology dom | protein_coding | 82 | 90 | 83 | 91 | 1.093 |
| 80303 | NM_001243252,NM | **EFHD1** | EF-hand domain family r | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 80304 | NM_001142319,NM | **WDCP** | WD repeat and coiled co | protein_coding | 29 | 27 | 30 | 28 | 0.923 |
| 80305 | NM_001320484,NM | **TRABD** | TraB domain containing | protein_coding | 66 | 62 | 67 | 63 | 0.945 |
| 80306 | NM_025205 | **MED28** | mediator complex subun | protein_coding | 26 | 22 | 27 | 23 | 0.881 |
| 80307 | NR_119376 | **FER1L4** | fer-1 like family member | transcribed_pseu | 0 | 0 | 1 | 1 | 0.961 |
| 80308 | NM_001184891,NM | **FLAD1** | flavin adenine dinucleotic | protein_coding | 74 | 79 | 75 | 80 | 1.056 |
| 80309 | NM_001142644,NM | **SPHKAP** | SPHK1 interactor, AKAP | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80310 | NM_025208,NM_03 | **PDGFD** | platelet derived growth fa | protein_coding | 1 | 1 | 2 | 2 | 0.901 |
| 80311 | NM_030624 | **KLHL15** | kelch like family member | protein_coding | 12 | 10 | 13 | 11 | 0.839 |
| 80312 | NM_030625,XM_01 | **TET1** | tet methylcytosine dioxyg | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 80313 | NM_001143757,NM | **LRRC27** | leucine rich repeat conta | protein_coding | 1 | 2 | 2 | 3 | 1.370 |
| 80314 | NM_001272004,NM | **EPC1** | enhancer of polycomb ho | protein_coding | 5 | 6 | 6 | 7 | 1.080 |
| 80315 | NM_001308189,NM | **CPEB4** | cytoplasmic polyadenyla | protein_coding | 3 | 3 | 4 | 4 | 0.848 |
| 80316 | NM_025210 | **PPP1R2C** | PPP1R2C family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80317 | NM_001242894,NM | **ZKSCAN3** | zinc finger with KRAB an | protein_coding | 4 | 4 | 5 | 5 | 1.061 |
| 80318 | NM_001135953,NM | **GKAP1** | G kinase anchoring prote | protein_coding | 2 | 2 | 3 | 3 | 0.979 |
| 80319 | NM_025212,NR_13 | **CXXC4** | CXXC finger protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80320 | NM_001258248,NM | **SP6** | Sp6 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80321 | NM_001288964,NM | **CEP70** | centrosomal protein 70 | protein_coding | 4 | 3 | 5 | 4 | 0.821 |
| 80323 | NM_001143829,NM | **CCDC68** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80324 | NM_001002019,NM | **PUS1** | pseudouridine synthase | protein_coding | 43 | 44 | 44 | 45 | 1.025 |
| 80325 | NM_032548,NM_17 | **ABTB1** | ankyrin repeat and BTB ( | protein_coding | 1 | 1 | 2 | 2 | 0.940 |
| 80326 | NM_025216,XM_01 | **WNT10A** | Wnt family member 10A | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 80327 | gene-MAPRE1P1 | **MAPRE1P1** | MAPRE1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.020 |
| 80328 | NM_025217,XM_01 | **ULBP2** | UL16 binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80329 | NM_001317089,NM | **ULBP1** | UL16 binding protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 80331 | NM_025219,XM_01 | **DNAJC5** | DnaJ heat shock protein | protein_coding | 68 | 64 | 69 | 65 | 0.940 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 80332 | NM_001282447,NM | **ADAM33** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80333 | NM_001035003,NM | **KCNIP4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80335 | NM_025222,XM_01 | **WDR82** | WD repeat domain 82 | protein_coding | 168 | 152 | 169 | 153 | 0.905 |
| 80336 | NM_001372179,NR | **PABPC1L** | poly(A) binding protein c | protein_coding | 14 | 12 | 15 | 13 | 0.885 |
| 80339 | NM_025225 | **PNPLA3** | patatin like phospholipas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80341 | NM_025227 | **BPIFB2** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80342 | NM_001287754,NM | **TRAF3IP3** | TRAF3 interacting protei | protein_coding | 92 | 86 | 93 | 87 | 0.942 |
| 80343 | NM_001271539,NM | **SEL1L2** | SEL1L2 adaptor subunit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80344 | NM_001163484,NM | **DCAF11** | DDB1 and CUL4 associa | protein_coding | 46 | 46 | 47 | 47 | 1.001 |
| 80345 | NM_001320555,NM | **ZSCAN16** | zinc finger and SCAN do | protein_coding | 24 | 21 | 25 | 22 | 0.899 |
| 80346 | NM_001316964,NM | **REEP4** | receptor accessory prote | protein_coding | 35 | 37 | 36 | 38 | 1.039 |
| 80347 | NM_001042529,NM | **COASY** | Coenzyme A synthase | protein_coding | 64 | 60 | 65 | 61 | 0.943 |
| 80349 | NM_001303247,NM | **WDR61** | WD repeat domain 61 | protein_coding | 95 | 104 | 96 | 105 | 1.091 |
| 80350 | NR_028092,NR_02 | **LPAL2** | lipoprotein(a) like 2, pse | transcribed_pseu | 2 | 3 | 3 | 4 | 1.153 |
| 80351 | NM_025235,XM_00 | **TNKS2** | tankyrase 2 | protein_coding | 36 | 33 | 37 | 34 | 0.920 |
| 80352 | NM_025236,NM_17 | **RNF39** | ring finger protein 39 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80380 | NM_025239,XM_00 | **PDCD1LG2** | programmed cell death 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80381 | NM_001024736,NM | **CD276** | CD276 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80700 | NM_001171091,NM | **UBXN6** | UBX domain protein 6 | protein_coding | 43 | 43 | 44 | 44 | 1.002 |
| 80701 | gene-AKR1D1P1 | **AKR1D1P1** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 0.903 |
| 80704 | NM_001371411,NM | **SLC19A3** | solute carrier family 19 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80705 | NM_001349012,NM | **TSGA10** | testis specific 10 | protein_coding | 3 | 4 | 4 | 5 | 1.108 |
| 80709 | NM_001317950,NM | **AKNA** | AT-hook transcription fac | protein_coding | 193 | 191 | 194 | 192 | 0.988 |
| 80712 | NM_153448 | **ESX1** | ESX homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80713 | gene-MTIF2P1 | **MTIF2P1** | mitochondrial translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 80714 | NM_025245,NR_03 | **PBX4** | PBX homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80723 | NM_001097599,NM | **SLC35G2** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80724 | NM_001136538,NM | **ACAD10** | acyl-CoA dehydrogenase | protein_coding | 6 | 5 | 7 | 6 | 0.847 |
| 80725 | NM_025248,XM_01 | **SRCIN1** | SRC kinase signaling inh | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 80726 | NM_001145304,NM | **IQCN** | IQ motif containing N | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 80727 | NM_025250,XM_01 | **TTYH3** | tweety family member 3 | protein_coding | 5 | 4 | 6 | 5 | 0.841 |
| 80728 | NM_001308207,NM | **ARHGAP39** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 80731 | NM_001316349,XM | **THSD7B** | thrombospondin type 1 d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80736 | NM_001178044,NM | **SLC44A4** | solute carrier family 44 m | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 80737 | NM_025258,XM_00 | **VWA7** | von Willebrand factor A c | protein_coding | 1 | 1 | 2 | 2 | 0.869 |
| 80739 | NM_025260,NM_13 | **MPIG6B** | megakaryocyte and plate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80740 | NM_025261 | **LY6G6C** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 0.815 |
| 80741 | NM_025262 | **LY6G5C** | lymphocyte antigen 6 far | protein_coding | 3 | 3 | 4 | 4 | 0.891 |
| 80742 | NM_001077497,NM | **PRR3** | proline rich 3 | protein_coding | 49 | 52 | 50 | 53 | 1.065 |
| 80745 | NM_001321468,NM | **THUMPD2** | THUMP domain containi | protein_coding | 23 | 21 | 24 | 22 | 0.932 |
| 80746 | NM_001145392,NM | **TSEN2** | tRNA splicing endonucle | protein_coding | 20 | 20 | 21 | 21 | 0.981 |
| 80755 | NM_001261434 | **AARSD1** | alanyl-tRNA synthetase d | protein_coding | 57 | 64 | 58 | 65 | 1.127 |
| 80757 | NM_001331238,NM | **TMEM121** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80758 | NM_001174101,NM | **PRR7** | proline rich 7, synaptic | protein_coding | 2 | 2 | 3 | 3 | 1.048 |
| 80759 | NM_001251874,NM | **KHDC1** | KH domain containing 1 | protein_coding | 4 | 3 | 5 | 4 | 0.655 |
| 80760 | NM_001001851,NM | **ITIH5** | inter-alpha-trypsin inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80762 | NM_030571 | **NDFIP1** | Nedd4 family interacting | protein_coding | 79 | 78 | 80 | 79 | 0.983 |
| 80763 | NM_030572,NR_13 | **SPX** | spexin hormone | protein_coding | 0 | 0 | 1 | 1 | 1.136 |
| 80764 | NM_001008695,NM | **THAP7** | THAP domain containing | protein_coding | 49 | 46 | 50 | 47 | 0.937 |
| 80765 | NM_181900,NR_13 | **STARD5** | StAR related lipid transfe | protein_coding | 1 | 1 | 2 | 2 | 0.955 |
| 80772 | NM_001029885,XM | **CPTP** | ceramide-1-phosphate tr | protein_coding | 31 | 31 | 32 | 32 | 1.015 |
| 80774 | NM_030576,XM_00 | **LIMD2** | LIM domain containing 2 | protein_coding | 86 | 101 | 87 | 102 | 1.176 |
| 80775 | NM_001105198,NM | **TMEM177** | transmembrane protein 1 | protein_coding | 34 | 26 | 35 | 27 | 0.767 |
| 80776 | NM_030578,XM_01 | **B9D2** | B9 domain containing 2 | protein_coding | 7 | 8 | 8 | 9 | 1.107 |
| 80777 | NM_030579 | **CYB5B** | cytochrome b5 type B | protein_coding | 100 | 95 | 101 | 96 | 0.949 |
| 80778 | NM_001286769,NM | **ZNF34** | zinc finger protein 34 | protein_coding | 1 | 1 | 2 | 2 | 0.973 |
| 80781 | NM_001379500,NM | **COL18A1** | collagen type XVIII alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80789 | NM_030628 | **INTS5** | integrator complex subu | protein_coding | 27 | 30 | 28 | 31 | 1.122 |
| 80790 | NM_030629,NM_19 | **CMIP** | c-Maf inducing protein | protein_coding | 53 | 54 | 54 | 55 | 1.018 |
| 80816 | NM_030632,XM_00 | **ASXL3** | ASXL transcriptional regu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80817 | NM_001040157,NM | **CEP44** | centrosomal protein 44 | protein_coding | 12 | 10 | 13 | 11 | 0.793 |
| 80818 | NM_001077195,NM | **ZNF436** | zinc finger protein 436 | protein_coding | 10 | 8 | 11 | 9 | 0.852 |
| 80820 | NM_030636,XM_01 | **EEPD1** | endonuclease/exonuclea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80821 | NM_001160147,NM | **DDHD1** | DDHD domain containing | protein_coding | 11 | 10 | 12 | 11 | 0.936 |
| 80823 | NM_001142524,NM | **BHLHB9** | basic helix-loop-helix fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80824 | NM_030640,XM_00 | **DUSP16** | dual specificity phosphat | protein_coding | 4 | 3 | 5 | 4 | 0.918 |
| 80829 | NM_001197051,NM | **ZFP91** | ZFP91 zinc finger protein | protein_coding | 102 | 82 | 103 | 83 | 0.809 |
| 80830 | NM_030641,XM_01 | **APOL6** | apolipoprotein L6 | protein_coding | 42 | 33 | 43 | 34 | 0.782 |
| 80831 | NM_030642,XM_00 | **APOL5** | apolipoprotein L5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80832 | NM_030643,NM_14 | **APOL4** | apolipoprotein L4 | protein_coding | 34 | 27 | 35 | 28 | 0.808 |
| 80833 | NM_014349,NM_03 | **APOL3** | apolipoprotein L3 | protein_coding | 25 | 25 | 26 | 26 | 1.012 |
| 80834 | NM_152232 | **TAS1R2** | taste 1 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80835 | NM_138697,NM_17 | **TAS1R1** | taste 1 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80851 | NM_001322462,NM | **SH3BP5L** | SH3 binding domain pro | protein_coding | 19 | 22 | 20 | 23 | 1.118 |
| 80852 | NM_001080423,XM | **GRIP2** | glutamate receptor intera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 80853 | NM_030647,XM_01 | **KDM7A** | lysine demethylase 7A | protein_coding | 5 | 4 | 6 | 5 | 0.837 |
| 80854 | NM_001306199,NM | **SETD7** | SET domain containing 7 | protein_coding | 0 | 0 | 1 | 1 | 1.102 |
| 80856 | NM_001305008,NM | **LNPK** | lunapark, ER junction for | protein_coding | 25 | 22 | 26 | 23 | 0.894 |
| 80862 | NR_026751,NR_14 | **ZNRD1ASP** | zinc ribbon domain conta | transcribed_pseu | 7 | 8 | 8 | 9 | 1.118 |
| 80863 | NM_001363780,NM | **PRRT1** | proline rich transmembra | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 80864 | NM_030652,NR_03 | **EGFL8** | EGF like domain multiple | protein_coding | 0 | 0 | 1 | 1 | 0.864 |
| 80868 | NR_001317 | **HCG4B** | HLA complex group 4B | lncRNA | 1 | 1 | 2 | 2 | 1.047 |
| 80895 | NM_030768,XM_00 | **ILKAP** | ILK associated serine/thr | protein_coding | 95 | 103 | 96 | 104 | 1.084 |
| 80896 | NM_001200050,NM | **NPL** | N-acetylneuraminate pyr | protein_coding | 6 | 6 | 7 | 7 | 0.915 |
| 80975 | NM_001288749,NM | **TMPRSS5** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 81025 | NM_030772 | **GJA9** | gap junction protein alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81027 | NM_030773,XM_01 | **TUBB1** | tubulin beta 1 class VI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81029 | NM_030775,NM_03 | **WNT5B** | Wnt family member 5B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81030 | NM_001160417,NM | **ZBP1** | Z-DNA binding protein 1 | protein_coding | 11 | 12 | 12 | 13 | 1.057 |
| 81031 | NM_030777,XM_01 | **SLC2A10** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81033 | NM_001278919,NM | **KCNH6** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81034 | NM_030780,NR_10 | **SLC25A32** | solute carrier family 25 m | protein_coding | 116 | 103 | 117 | 104 | 0.890 |
| 81035 | NM_130386,XM_01 | **COLEC12** | collectin subfamily memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81037 | NM_030782,XM_01 | **CLPTM1L** | CLPTM1 like | protein_coding | 144 | 150 | 145 | 151 | 1.035 |
| 81050 | NM_054106 | **OR5AC2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81061 | NM_001005239 | **OR11H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81099 | NM_001005240 | **OR4F17** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81115 | gene-OR7E106P | **OR7E106P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 81127 | NM_001005486 | **OR4K15** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81138 | gene-OR7E101P | **OR7E101P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 81168 | NM_001004064 | **OR8J3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81282 | NM_001005238 | **OR51G2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81285 | NM_030774 | **OR51E2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81300 | NM_001004124 | **OR4P4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 81309 | NM_001001920 | **OR4C15** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81318 | NM_001005272 | **OR4A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81327 | NM_001005274 | **OR4A16** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81328 | NM_001005275 | **OR4A15** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81341 | NM_207374 | **OR10W1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81343 | NR_045005 | **OR10V2P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 81390 | gene-OR4F7P | **OR4F7P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 81392 | NM_001005276 | **OR2AE1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 0.835 |
| 81399 | NM_001005277,XM | **OR4F16** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 81442 | NM_001005278 | **OR6N2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81448 | NM_001005279 | **OR6K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81458 | NM_001355223 | **OR2T7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81465 | gene-OR2L6P | **OR2L6P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 81466 | NM_001258284 | **OR2L5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81469 | NM_001001914 | **OR2G3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81470 | NM_001001915 | **OR2G2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81472 | NM_198074 | **OR2C3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81488 | NM_001018102,NM | **POLR2M** | RNA polymerase II subu | protein_coding | 65 | 58 | 66 | 59 | 0.901 |
| 81490 | NM_001329544,NM | **PTDSS2** | phosphatidylserine synth | protein_coding | 25 | 24 | 26 | 25 | 0.978 |
| 81491 | NM_001143957,NM | **GPR63** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81492 | NM_030785,XM_01 | **RSPH6A** | radial spoke head 6 hom | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 81493 | NM_001161708,NM | **SYNC** | syncoilin, intermediate fil | protein_coding | 0 | 0 | 1 | 1 | 0.997 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 81494 | NM_030787,XM_01: | **CFHR5** | complement factor H rel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81501 | NM_001257317,NM | **DCSTAMP** | dendrocyte expressed se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81502 | NM_030789,NM_17 | **HM13** | histocompatibility minor | protein_coding | 187 | 187 | 188 | 188 | 0.999 |
| 81532 | NM_001172223,NM | **MOB2** | MOB kinase activator 2 | protein_coding | 21 | 23 | 22 | 24 | 1.115 |
| 81533 | NM_001305002,NM | **ITFG1** | integrin alpha FG-GAP r | protein_coding | 17 | 18 | 18 | 19 | 1.029 |
| 81537 | NM_030791,XM_01 | **SGPP1** | sphingosine-1-phosphat | protein_coding | 16 | 14 | 17 | 15 | 0.880 |
| 81539 | NM_001077484,NM | **SLC38A1** | solute carrier family 38 r | protein_coding | 133 | 109 | 134 | 110 | 0.816 |
| 81542 | NM_030755 | **TMX1** | thioredoxin related transı | protein_coding | 89 | 78 | 90 | 79 | 0.871 |
| 81543 | NM_030891 | **LRRC3** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81544 | NM_001351167,NM | **GDPD5** | glycerophosphodiester p | protein_coding | 0 | 0 | 1 | 1 | 0.736 |
| 81545 | NM_001271723,NM | **FBXO38** | F-box protein 38 | protein_coding | 35 | 36 | 36 | 37 | 1.016 |
| 81550 | NM_001146070,NM | **TDRD3** | tudor domain containing | protein_coding | 12 | 11 | 13 | 12 | 0.952 |
| 81551 | NM_001283053,NM | **STMN4** | stathmin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81552 | NM_001284282,NM | **VOPP1** | VOPP1 WW domain bin | protein_coding | 52 | 50 | 53 | 51 | 0.959 |
| 81553 | NM_030797,XM_00 | **CYRIA** | CYFIP related Rac1 inte | protein_coding | 52 | 52 | 53 | 53 | 1.016 |
| 81554 | NM_001281441,NM | **RCC1L** | RCC1 like | protein_coding | 69 | 68 | 70 | 69 | 0.985 |
| 81555 | NM_001024947,NM | **YIPF5** | Yip1 domain family mem | protein_coding | 32 | 33 | 33 | 34 | 1.033 |
| 81556 | NM_001136043,NM | **INTS14** | integrator complex subu | protein_coding | 84 | 84 | 85 | 85 | 0.995 |
| 81557 | NM_001242362,NM | **MAGED4B** | MAGE family member D4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81558 | NM_030802,XM_01 | **FAM117A** | family with sequence sir | protein_coding | 16 | 17 | 17 | 18 | 1.082 |
| 81559 | NM_145214,XM_01 | **TRIM11** | tripartite motif containing | protein_coding | 28 | 28 | 29 | 29 | 1.017 |
| 81562 | NM_001142292,NM | **LMAN2L** | lectin, mannose binding | protein_coding | 33 | 31 | 34 | 32 | 0.922 |
| 81563 | NM_030806 | **C1orf21** | chromosome 1 open rea | protein_coding | 4 | 4 | 5 | 5 | 0.881 |
| 81565 | NM_001025579,NM | **NDEL1** | nudE neurodevelopment | protein_coding | 18 | 16 | 19 | 17 | 0.917 |
| 81566 | NM_030809,NR_04 | **CSRNP2** | cysteine and serine rich | protein_coding | 10 | 11 | 11 | 12 | 1.070 |
| 81567 | NM_001145549,NM | **TXNDC5** | thioredoxin domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81569 | NM_030812,XM_01 | **ACTL8** | actin like 8 | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 81570 | NM_001258392,NM | **CLPB** | caseinolytic mitochondria | protein_coding | 12 | 12 | 13 | 13 | 0.961 |
| 81571 | NR_026677 | **MIR600HG** | MIR600 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.293 |
| 81572 | NM_030815 | **PDRG1** | p53 and DNA damage re | protein_coding | 87 | 86 | 88 | 87 | 0.996 |
| 81573 | NM_030816,XM_00 | **ANKRD13C** | ankyrin repeat domain 1 | protein_coding | 21 | 18 | 22 | 19 | 0.882 |
| 81575 | NM_001130415,NM | **APOLD1** | apolipoprotein L domain | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 81576 | NM_001320561,NM | **CCDC130** | coiled-coil domain conta | protein_coding | 20 | 17 | 21 | 18 | 0.825 |
| 81577 | NM_001243650,NM | **GFOD2** | glucose-fructose oxidore | protein_coding | 24 | 24 | 25 | 25 | 1.016 |
| 81578 | NM_001318751,NM | **COL21A1** | collagen type XXI alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81579 | NM_030821 | **PLA2G12A** | phospholipase A2 group | protein_coding | 5 | 5 | 6 | 6 | 0.870 |
| 81602 | NM_001193478,NM | **CDADC1** | cytidine and dCMP deam | protein_coding | 10 | 8 | 11 | 9 | 0.830 |
| 81603 | NM_001345950,NM | **TRIM8** | tripartite motif containing | protein_coding | 45 | 50 | 46 | 51 | 1.125 |
| 81605 | NM_001135947,NM | **URM1** | ubiquitin related modifier | protein_coding | 73 | 78 | 74 | 79 | 1.058 |
| 81606 | NM_030915,XM_01 | **LBH** | LBH regulator of WNT si | protein_coding | 5 | 7 | 6 | 8 | 1.255 |
| 81607 | NM_030916,XM_00 | **NECTIN4** | nectin cell adhesion mol | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 81608 | NM_001134937,NM | **FIP1L1** | factor interacting with PA | protein_coding | 25 | 24 | 26 | 25 | 0.978 |
| 81609 | NM_001330723,NM | **SNX27** | sorting nexin 27 | protein_coding | 17 | 16 | 18 | 17 | 0.926 |
| 81610 | NM_030919,XM_01 | **FAM83D** | family with sequence sir | protein_coding | 31 | 29 | 32 | 30 | 0.935 |
| 81611 | NM_001136478,NM | **ANP32E** | acidic nuclear phosphop | protein_coding | 314 | 286 | 315 | 287 | 0.910 |
| 81614 | NM_001008860,NM | **NIPA2** | NIPA magnesium transp | protein_coding | 99 | 92 | 100 | 93 | 0.928 |
| 81615 | NM_030923,XM_01 | **TMEM163** | transmembrane protein 1 | protein_coding | 25 | 22 | 26 | 23 | 0.895 |
| 81616 | NM_001289177,NM | **ACSBG2** | acyl-CoA synthetase bul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81617 | NM_001079670,NM | **CAB39L** | calcium binding protein 3 | protein_coding | 6 | 5 | 7 | 6 | 0.888 |
| 81618 | NM_001012514,NM | **ITM2C** | integral membrane prote | protein_coding | 0 | 0 | 1 | 1 | 0.810 |
| 81619 | NM_001128309,NM | **TSPAN14** | tetraspanin 14 | protein_coding | 65 | 56 | 66 | 57 | 0.862 |
| 81620 | NM_030928 | **CDT1** | chromatin licensing and | protein_coding | 56 | 66 | 57 | 67 | 1.177 |
| 81621 | NM_001319303,NM | **KAZALD1** | Kazal type serine peptid | protein_coding | 2 | 2 | 3 | 3 | 0.936 |
| 81622 | NM_030930,XM_01 | **UNC93B1** | unc-93 homolog B1, TLR | protein_coding | 2 | 3 | 3 | 4 | 1.222 |
| 81623 | NM_030931 | **DEFB126** | defensin beta 126 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81624 | NM_001042517,NM | **DIAPH3** | diaphanous related form | protein_coding | 18 | 15 | 19 | 16 | 0.821 |
| 81626 | NM_001345928,NM | **SHCBP1L** | SHC binding and spindle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81627 | NM_001202423,NM | **TRMT1L** | tRNA methyltransferase | protein_coding | 26 | 26 | 27 | 27 | 0.991 |
| 81628 | NM_001303043,NM | **TSC22D4** | TSC22 domain family me | protein_coding | 125 | 130 | 126 | 131 | 1.037 |
| 81629 | NM_052841,XM_02 | **TSSK3** | testis specific serine kina | protein_coding | 0 | 0 | 1 | 1 | 0.887 |
| 81631 | NM_022818 | **MAP1LC3B** | microtubule associated p | protein_coding | 39 | 37 | 40 | 38 | 0.945 |
| 81669 | NM_001039577,NM | **CCNL2** | cyclin L2 | protein_coding | 34 | 33 | 35 | 34 | 0.955 |
| 81671 | NM_001329394,NM | **VMP1** | vacuole membrane prote | protein_coding | 81 | 76 | 82 | 77 | 0.934 |
| 81688 | NM_030939,XM_00 | **C6orf62** | chromosome 6 open rea | protein_coding | 152 | 145 | 153 | 146 | 0.951 |
| 81689 | NM_030940 | **ISCA1** | iron-sulfur cluster assem | protein_coding | 47 | 47 | 48 | 48 | 1.014 |
| 81691 | NM_001144924,NM | **REXO5** | RNA exonuclease 5 | protein_coding | 10 | 10 | 11 | 11 | 1.014 |
| 81693 | NM_030943,XM_01 | **AMN** | amnion associated transı | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 81696 | NM_030876,XM_01 | **OR5V1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81697 | NM_033057 | **OR2B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81698 | NR_026813 | **LINC00597** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 81704 | NM_001190458,NM | **DOCK8** | dedicator of cytokinesis 8 | protein_coding | 98 | 85 | 99 | 86 | 0.861 |
| 81706 | NM_030949,XM_00 | **PPP1R14C** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81786 | NM_033342,NM_20 | **TRIM7** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.129 |
| 81788 | NM_030952,XM_00 | **NUAK2** | NUAK family kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81789 | NM_001243253,NM | **TIGD6** | tigger transposable elem | protein_coding | 1 | 1 | 2 | 2 | 0.985 |
| 81790 | NM_001160223,NM | **RNF170** | ring finger protein 170 | protein_coding | 22 | 21 | 23 | 22 | 0.980 |
| 81792 | NM_001324511,NM | **ADAMTS12** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81793 | NM_001017388,NM | **TLR10** | toll like receptor 10 | protein_coding | 0 | 0 | 1 | 1 | 0.941 |
| 81794 | NM_001282352,NM | **ADAMTS10** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81796 | NM_001146008,NM | **SLCO5A1** | solute carrier organic ani | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 81797 | NM_030959 | **OR12D3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81831 | NM_001201477,NM | **NETO2** | neuropilin and tolloid like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81832 | NM_001201465,NM | **NETO1** | neuropilin and tolloid like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81833 | NM_030960,XM_01 | **SPACA1** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81839 | NM_001172411,NM | **VANGL1** | VANGL planar cell polari | protein_coding | 12 | 11 | 13 | 12 | 0.894 |
| 81844 | NM_030961,XM_01 | **TRIM56** | tripartite motif containing | protein_coding | 54 | 44 | 55 | 45 | 0.812 |
| 81846 | NM_030962,XM_00 | **SBF2** | SET binding factor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81847 | NM_001242844,NM | **RNF146** | ring finger protein 146 | protein_coding | 14 | 10 | 15 | 11 | 0.742 |
| 81848 | NM_001127496,NM | **SPRY4** | sprouty RTK signaling ar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81849 | NM_001320273,NM | **ST6GALNAC5** | ST6 N-acetylgalactosami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81850 | NM_030966 | **KRTAP1-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81851 | NM_030967 | **KRTAP1-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81853 | NM_001127711,NM | **TMEM14B** | transmembrane protein 1 | protein_coding | 174 | 173 | 175 | 174 | 0.995 |
| 81854 | NR_024166,NR_02 | **ZNF205-AS1** | ZNF205 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.122 |
| 81855 | NM_030971,NR_15 | **SFXN3** | sideroflexin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81856 | NM_001161499,NM | **ZNF611** | zinc finger protein 611 | protein_coding | 5 | 3 | 6 | 4 | 0.681 |
| 81857 | NM_001378355,NM | **MED25** | mediator complex subun | protein_coding | 47 | 59 | 48 | 60 | 1.255 |
| 81858 | NM_030974,NR_03 | **SHARPIN** | SHANK associated RH d | protein_coding | 20 | 19 | 21 | 20 | 0.991 |
| 81870 | NM_030975 | **KRTAP9-9** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81871 | NM_030976 | **KRTAP4-6** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81872 | NM_001123387 | **KRTAP2-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81873 | NM_030978,XM_01 | **ARPC5L** | actin related protein 2/3 | protein_coding | 207 | 205 | 208 | 206 | 0.990 |
| 81875 | NM_001303095,NM | **ISG20L2** | interferon stimulated exo | protein_coding | 113 | 115 | 114 | 116 | 1.022 |
| 81876 | NM_030981,XM_01 | **RAB1B** | RAB1B, member RAS on | protein_coding | 280 | 293 | 281 | 294 | 1.043 |
| 81887 | NM_001170649,NM | **LAS1L** | LAS1 like ribosome biog | protein_coding | 134 | 123 | 135 | 124 | 0.916 |
| 81888 | NM_001190880,NM | **HYI** | hydroxypyruvate isomera | protein_coding | 0 | 0 | 1 | 1 | 1.008 |
| 81889 | NM_001018104,NM | **FAHD1** | fumarylacetoacetate hyd | protein_coding | 27 | 27 | 28 | 28 | 1.000 |
| 81890 | NM_031209 | **QTRT1** | queuine tRNA-ribosyltrar | protein_coding | 67 | 70 | 68 | 71 | 1.041 |
| 81892 | NM_001267863,NM | **SLIRP** | SRA stem-loop interactin | protein_coding | 292 | 280 | 293 | 281 | 0.959 |
| 81893 | gene-SLC7A5P1 | **SLC7A5P1** | solute carrier family 7 me | pseudogene | 0 | 1 | 1 | 2 | 1.396 |
| 81894 | NM_031212,XM_00 | **SLC25A28** | solute carrier family 25 r | protein_coding | 26 | 31 | 27 | 32 | 1.168 |
| 81926 | NM_001130111,NM | **ABHD17A** | abhydrolase domain con | protein_coding | 93 | 87 | 94 | 88 | 0.933 |
| 81928 | NM_031215 | **CABLES2** | Cdk5 and Abl enzyme su | protein_coding | 19 | 18 | 20 | 19 | 0.950 |
| 81929 | NM_001013437,NM | **SEH1L** | SEH1 like nucleoporin | protein_coding | 46 | 42 | 47 | 43 | 0.910 |
| 81930 | NM_031217,XM_01 | **KIF18A** | kinesin family member 18 | protein_coding | 30 | 27 | 31 | 28 | 0.911 |
| 81931 | NM_031218 | **ZNF93** | zinc finger protein 93 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 81932 | NM_001304509,NM | **HDHD3** | haloacid dehalogenase l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83259 | NM_001278619,NM | **PCDH11Y** | protocadherin 11 Y-linke | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83394 | NM_001165966,NM | **PITPNM3** | PITPNM family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 83401 | NM_152310,XM_01 | **ELOVL3** | ELOVL fatty acid elonga | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83416 | NM_001195388,NM | **FCRL5** | Fc receptor like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83417 | NM_031282,XM_01 | **FCRL4** | Fc receptor like 4 | protein_coding | 1 | 1 | 2 | 2 | 0.897 |
| 83439 | NM_031283,XM_00 | **TCF7L1** | transcription factor 7 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83440 | NM_001365223,NM | **ADPGK** | ADP dependent glucokir | protein_coding | 104 | 98 | 105 | 99 | 0.946 |
| 83442 | NM_031286 | **SH3BGRL3** | SH3 domain binding glut | protein_coding | 368 | 411 | 369 | 412 | 1.118 |
| 83443 | NM_031287 | **SF3B5** | splicing factor 3b subuni | protein_coding | 242 | 270 | 243 | 271 | 1.119 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 83444 | NM_031288 | **INO80B** | INO80 complex subunit E | protein_coding | 57 | 57 | 58 | 58 | 1.011 |
| 83445 | NM_001080554,NM | **GSG1** | germ cell associated 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83446 | NM_001346075,NM | **CCDC70** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83447 | NM_001318467,NM | **SLC25A31** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83448 | NM_001098614,NM | **PUS7L** | pseudouridine synthase | protein_coding | 14 | 11 | 15 | 12 | 0.834 |
| 83449 | NM_001160213,NM | **PMFBP1** | polyamine modulated fac | protein_coding | 0 | 0 | 1 | 1 | 0.775 |
| 83450 | NM_001130090,NM | **DRC3** | dynein regulatory comple | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 83451 | NM_001145364,NM | **ABHD11** | abhydrolase domain con | protein_coding | 14 | 17 | 15 | 18 | 1.155 |
| 83452 | NM_031296,XM_01 | **RAB33B** | RAB33B, member RAS c | protein_coding | 9 | 10 | 10 | 11 | 1.038 |
| 83460 | NM_001014764,NM | **EMC6** | ER membrane protein cc | protein_coding | 57 | 55 | 58 | 56 | 0.950 |
| 83461 | NM_001297602,NM | **CDCA3** | cell division cycle associa | protein_coding | 34 | 39 | 35 | 40 | 1.150 |
| 83463 | NM_001142935,NM | **MXD3** | MAX dimerization protein | protein_coding | 14 | 17 | 15 | 18 | 1.233 |
| 83464 | NM_001145646,NM | **APH1B** | aph-1 homolog B, gamm | protein_coding | 10 | 9 | 11 | 10 | 0.939 |
| 83468 | NM_001316967,NM | **GLT8D2** | glycosyltransferase 8 do | protein_coding | 0 | 0 | 1 | 1 | 1.236 |
| 83473 | NM_001353899,NM | **KATNAL2** | katanin catalytic subunit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83475 | NM_001145165,NM | **DOHH** | deoxyhypusine hydroxyla | protein_coding | 62 | 65 | 63 | 66 | 1.059 |
| 83478 | NM_001025616,NM | **ARHGAP24** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 83479 | NM_001031725,NM | **DDX59** | DEAD-box helicase 59 | protein_coding | 14 | 13 | 15 | 14 | 0.910 |
| 83480 | NM_001271985,NM | **PUS3** | pseudouridine synthase | protein_coding | 29 | 27 | 30 | 28 | 0.936 |
| 83481 | NM_031308,XM_01 | **EPPK1** | epiplakin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83482 | NM_031309,XM_02 | **SCRT1** | scratch family transcripti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83483 | NM_031310 | **PLVAP** | plasmalemma vesicle ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83528 | gene-CYP51A1P1 | **CYP51A1P1** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 83530 | gene-CYP51A1P2 | **CYP51A1P2** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 83538 | NM_001350319,NM | **TTC25** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 83539 | NM_001256316,NM | **CHST9** | carbohydrate sulfotransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83540 | NM_031423,NM_14 | **NUF2** | NUF2 component of NDC | protein_coding | 105 | 96 | 106 | 97 | 0.915 |
| 83541 | NM_001042353,NM | **FAM110A** | family with sequence sim | protein_coding | 23 | 25 | 24 | 26 | 1.074 |
| 83543 | NM_001185095,NM | **AIF1L** | allograft inflammatory fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83544 | NM_001201366,NM | **DNAL1** | dynein axonemal light ch | protein_coding | 5 | 4 | 6 | 5 | 0.819 |
| 83546 | NM_001080997,NM | **RTBDN** | retbindin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83547 | NM_031430,XM_00 | **RILP** | Rab interacting lysosoma | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 83548 | NM_031431,XM_01 | **COG3** | component of oligomeric | protein_coding | 21 | 19 | 22 | 20 | 0.904 |
| 83549 | NM_001135954,NM | **UCK1** | uridine-cytidine kinase 1 | protein_coding | 36 | 35 | 37 | 36 | 0.971 |
| 83550 | NM_054021 | **GPR101** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83551 | NM_053278 | **TAAR8** | trace amine associated re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83552 | NM_031433 | **MFRP** | membrane frizzled-relate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83590 | NM_001136044,NM | **TMUB1** | transmembrane and ubic | protein_coding | 75 | 80 | 76 | 81 | 1.073 |
| 83591 | NM_031435 | **THAP2** | THAP domain containing | protein_coding | 3 | 2 | 4 | 3 | 0.759 |
| 83592 | NM_001040177,NM | **AKR1E2** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83593 | NM_182663,NM_18 | **RASSF5** | Ras association domain f | protein_coding | 164 | 152 | 165 | 153 | 0.928 |
| 83594 | NM_001300741,NM | **NUDT12** | nudix hydrolase 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83595 | NM_031439 | **SOX7** | SRY-box transcription fa | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 83596 | NM_001040668,NM | **BCL2L12** | BCL2 like 12 | protein_coding | 50 | 54 | 51 | 55 | 1.078 |
| 83597 | NM_031440 | **RTP3** | receptor transporter prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83598 | NR_073385 | **LRRC2-AS1** | LRRC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83604 | NM_031442 | **TMEM47** | transmembrane protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83605 | NM_001029835,NM | **CCM2** | CCM2 scaffold protein | protein_coding | 35 | 40 | 36 | 41 | 1.149 |
| 83606 | NM_001284251,NM | **GUCD1** | guanylyl cyclase domain | protein_coding | 76 | 80 | 77 | 81 | 1.061 |
| 83607 | NM_001199140,NM | **AMMECR1L** | AMMECR1 like | protein_coding | 27 | 24 | 28 | 25 | 0.914 |
| 83608 | NM_001201474,NM | **C18orf21** | chromosome 18 open rea | protein_coding | 37 | 41 | 38 | 42 | 1.090 |
| 83636 | NM_001031726,NM | **C19orf12** | chromosome 19 open rea | protein_coding | 18 | 19 | 19 | 20 | 1.030 |
| 83637 | NM_001300959,NM | **ZMIZ2** | zinc finger MIZ-type cont | protein_coding | 13 | 15 | 14 | 16 | 1.129 |
| 83638 | NM_001135635,NM | **C11orf68** | chromosome 11 open rea | protein_coding | 31 | 37 | 32 | 38 | 1.192 |
| 83639 | NM_001130011,NM | **TEX101** | testis expressed 101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83640 | NM_031452 | **RAMAC** | RNA guanine-7 methyltra | protein_coding | 60 | 57 | 61 | 58 | 0.950 |
| 83641 | NM_001282695,NM | **FAM107B** | family with sequence sim | protein_coding | 67 | 52 | 68 | 53 | 0.776 |
| 83642 | NM_031454 | **SELENOO** | selenoprotein O | protein_coding | 12 | 13 | 13 | 14 | 1.046 |
| 83643 | NM_001282658,NM | **CCDC3** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83648 | NM_053279,XM_00 | **FAM167A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83650 | NM_054028 | **SLC35G5** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 83655 | NR_040035 | **LINC00208** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83656 | NR_026814 | **FAM167A-AS1** | FAM167A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83657 | NM_001305017,NM | **DYNLRB2** | dynein light chain roadbl | protein_coding | 1 | 1 | 2 | 2 | 1.212 |
| 83658 | NM_001319157,NM | **DYNLRB1** | dynein light chain roadbl | protein_coding | 218 | 246 | 219 | 247 | 1.127 |
| 83659 | NM_053285,XM_01 | **TEKT1** | tektin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83660 | NM_015059,XM_00 | **TLN2** | talin 2 | protein_coding | 3 | 2 | 4 | 3 | 0.946 |
| 83661 | NM_031457 | **MS4A8** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83666 | NM_001146102,NM | **PARP9** | poly(ADP-ribose) polyme | protein_coding | 78 | 65 | 79 | 66 | 0.840 |
| 83667 | NM_031459,XR_94 | **SESN2** | sestrin 2 | protein_coding | 14 | 14 | 15 | 15 | 1.021 |
| 83690 | NM_001286777,NM | **CRISPLD1** | cysteine rich secretory pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83692 | NM_001184808,NM | **CD99L2** | CD99 molecule like 2 | protein_coding | 24 | 22 | 25 | 23 | 0.897 |
| 83693 | NM_001146051,NM | **HSDL1** | hydroxysteroid dehydrog | protein_coding | 11 | 11 | 12 | 12 | 0.976 |
| 83694 | NM_001370252,NM | **RPS6KL1** | ribosomal protein S6 kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83695 | NM_001252499,NM | **RHNO1** | RAD9-HUS1-RAD1 interac | protein_coding | 29 | 33 | 30 | 34 | 1.121 |
| 83696 | NM_001160372,NM | **TRAPPC9** | trafficking protein particle | protein_coding | 3 | 3 | 4 | 4 | 1.001 |
| 83697 | NM_001258426,NM | **SLC4A9** | solute carrier family 4 me | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 83698 | NM_001017440,NM | **CALN1** | calneuron 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83699 | NM_031469,XM_01 | **SH3BGRL2** | SH3 domain binding glut | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83700 | NM_001205329,NM | **JAM3** | junctional adhesion mole | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83706 | NM_001382361,NM | **FERMT3** | fermitin family member 3 | protein_coding | 381 | 389 | 382 | 390 | 1.020 |
| 83707 | NM_001033678,NM | **TRPT1** | tRNA phosphotransferas | protein_coding | 15 | 17 | 16 | 18 | 1.101 |
| 83714 | NM_031474,XM_00 | **NRIP2** | nuclear receptor interacti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83715 | NM_001367473,NM | **ESPN** | espin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83716 | NM_031476,XM_00 | **CRISPLD2** | cysteine rich secretory pr | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 83719 | NM_001145524,NM | **YPEL3** | yippee like 3 | protein_coding | 1 | 1 | 2 | 2 | 0.897 |
| 83723 | NM_001318504,NM | **TLCD3B** | TLC domain containing 3 | protein_coding | 1 | 0 | 2 | 1 | 0.762 |
| 83729 | NM_031479 | **INHBE** | inhibin subunit beta E | protein_coding | 11 | 10 | 12 | 11 | 0.944 |
| 83732 | NM_001348194,NM | **RIOK1** | RIO kinase 1 | protein_coding | 62 | 59 | 63 | 60 | 0.948 |
| 83733 | NM_001303484,NM | **SLC25A18** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83734 | NM_001131028,NM | **ATG10** | autophagy related 10 | protein_coding | 4 | 4 | 5 | 5 | 0.846 |
| 83737 | NM_001257137,NM | **ITCH** | itchy E3 ubiquitin protein | protein_coding | 77 | 64 | 78 | 65 | 0.836 |
| 83740 | NM_080720 | **H2AB3** | H2A.B variant histone 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83741 | NM_172238 | **TFAP2D** | transcription factor AP-2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83742 | NM_031484 | **MARVELD1** | MARVEL domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83743 | NM_031485 | **GRWD1** | glutamate rich WD repea | protein_coding | 90 | 88 | 91 | 89 | 0.976 |
| 83744 | NM_001007101,NM | **ZNF484** | zinc finger protein 484 | protein_coding | 4 | 3 | 5 | 4 | 0.835 |
| 83746 | NM_031488,XM_01 | **L3MBTL2** | L3MBTL histone methyl-l | protein_coding | 41 | 48 | 42 | 49 | 1.191 |
| 83752 | NM_001300948,NM | **LONP2** | lon peptidase 2, peroxisc | protein_coding | 26 | 23 | 27 | 24 | 0.886 |
| 83755 | NM_031854 | **KRTAP4-12** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83756 | NM_152228,XM_01 | **TAS1R3** | taste 1 receptor member | protein_coding | 0 | 0 | 1 | 1 | 0.817 |
| 83758 | NM_001329454,NM | **RBP5** | retinol binding protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.393 |
| 83759 | NM_001286135,NM | **RBM4B** | RNA binding motif protei | protein_coding | 24 | 25 | 25 | 26 | 1.064 |
| 83786 | NM_001300832,NM | **FRMD8** | FERM domain containing | protein_coding | 55 | 58 | 56 | 59 | 1.054 |
| 83787 | NM_001161009,NM | **ARMC10** | armadillo repeat containi | protein_coding | 48 | 48 | 49 | 49 | 0.996 |
| 83795 | NM_001135105,NM | **KCNK16** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83844 | NM_031907,XM_01 | **USP26** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83849 | NM_031912,NM_18 | **SYT15** | synaptotagmin 15 | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 83850 | NM_001322831,NM | **ESYT3** | extended synaptotagmin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83851 | NM_001367650,NM | **SYT16** | synaptotagmin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83852 | NM_001160308,NM | **SETDB2** | SET domain bifurcated h | protein_coding | 9 | 8 | 10 | 9 | 0.927 |
| 83853 | NM_001201466,NM | **ROPN1L** | rhophilin associated tail p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83854 | NM_001321411,NM | **ANGPTL6** | angiopoietin like 6 | protein_coding | 2 | 2 | 3 | 3 | 0.971 |
| 83855 | NM_031918 | **KLF16** | Kruppel like factor 16 | protein_coding | 40 | 44 | 41 | 45 | 1.085 |
| 83856 | NM_001145313,NM | **FSD1L** | fibronectin type III and SI | protein_coding | 4 | 4 | 5 | 5 | 0.954 |
| 83857 | NM_001193451,NM | **TMTC1** | transmembrane O-mann | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83858 | NM_001317238,NM | **ATAD3B** | ATPase family AAA doma | protein_coding | 98 | 80 | 99 | 81 | 0.815 |
| 83860 | NM_031923,XM_01 | **TAF3** | TATA-box binding protein | protein_coding | 6 | 6 | 7 | 7 | 0.952 |
| 83861 | NM_001346418,NM | **RSPH3** | radial spoke head 3 | protein_coding | 1 | 1 | 2 | 2 | 1.163 |
| 83862 | NM_001317803,NM | **TMEM120A** | transmembrane protein 1 | protein_coding | 15 | 15 | 16 | 16 | 0.996 |
| 83863 | NR_001541 | **TTTY5** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83864 | NR_001530 | **TTTY9A** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83866 | NR_001548 | **TTTY11** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83867 | NR_001551 | **TTTY12** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83868 | NR_001537 | **TTTY13** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 83869 | NR_001543,NR_12 | **TTTY14** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 83871 | NM_001142624,NM | **RAB34** | RAB34, member RAS on | protein_coding | 0 | 1 | 1 | 2 | 1.242 |
| 83872 | NM_031935,XM_01 | **HMCN1** | hemicentin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 83873 | NM_031936 | **GPR61** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83874 | NM_001204240,NM | **TBC1D10A** | TBC1 domain family mer | protein_coding | 19 | 24 | 20 | 25 | 1.281 |
| 83875 | NM_001037290,NM | **BCO2** | beta-carotene oxygenase | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 83876 | NM_001127174,NM | **MRO** | maestro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83877 | NM_001024380,NM | **TM2D2** | TM2 domain containing 2 | protein_coding | 23 | 20 | 24 | 21 | 0.896 |
| 83878 | NM_001297703,NM | **USHBP1** | USH1 protein network co | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 83879 | NM_031942,NM_14 | **CDCA7** | cell division cycle associ | protein_coding | 199 | 206 | 200 | 207 | 1.034 |
| 83880 | gene-EIF3FP2 | **EIF3FP2** | eukaryotic translation init | pseudogene | 1 | 1 | 2 | 2 | 0.916 |
| 83881 | NM_001282402,NM | **MIXL1** | Mix paired-like homeobo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83882 | NM_001290212,NM | **TSPAN10** | tetraspanin 10 | protein_coding | 0 | 1 | 1 | 2 | 1.253 |
| 83884 | NM_031947 | **SLC25A2** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83886 | NM_001318395,NM | **PRSS27** | serine protease 27 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 83887 | NM_031949,XM_00 | **TTLL2** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83888 | NM_031950 | **FGFBP2** | fibroblast growth factor b | protein_coding | 1 | 1 | 2 | 2 | 0.848 |
| 83889 | NM_001291088,NM | **WDR87** | WD repeat domain 87 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83890 | NM_001349303,NM | **SPATA9** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83891 | NM_001317781,NM | **SNX25** | sorting nexin 25 | protein_coding | 10 | 10 | 11 | 11 | 1.006 |
| 83892 | NM_001317395,NM | **KCTD10** | potassium channel tetra | protein_coding | 40 | 37 | 41 | 38 | 0.938 |
| 83893 | NM_031955,XM_00 | **SPATA16** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83894 | NM_001300761,NM | **TTC29** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83895 | NM_031957 | **KRTAP1-5** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83896 | NM_031958 | **KRTAP3-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83897 | NM_031959 | **KRTAP3-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83899 | NM_031961 | **KRTAP9-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83900 | NM_031962 | **KRTAP9-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83901 | NM_031963 | **KRTAP9-8** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83902 | NM_031964 | **KRTAP17-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83903 | NM_031965 | **HASPIN** | histone H3 associated pr | protein_coding | 22 | 18 | 23 | 19 | 0.827 |
| 83930 | NM_001363339,NM | **STARD3NL** | STARD3 N-terminal like | protein_coding | 78 | 77 | 79 | 78 | 0.987 |
| 83931 | NM_001282546,NM | **STK40** | serine/threonine kinase 4 | protein_coding | 87 | 85 | 88 | 86 | 0.978 |
| 83932 | NM_001010984,NM | **SPRTN** | SprT-like N-terminal dom | protein_coding | 16 | 13 | 17 | 14 | 0.829 |
| 83933 | NM_001159286,NM | **HDAC10** | histone deacetylase 10 | protein_coding | 6 | 6 | 7 | 7 | 0.992 |
| 83937 | NM_032023,XM_00 | **RASSF4** | Ras association domain f | protein_coding | 6 | 8 | 7 | 9 | 1.274 |
| 83938 | NM_001305581,NM | **LRMDA** | leucine rich melanocyte c | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 83939 | NM_001319043,NM | **EIF2A** | eukaryotic translation init | protein_coding | 125 | 107 | 126 | 108 | 0.852 |
| 83940 | NM_001146160,NM | **TATDN1** | TatD DNase domain con | protein_coding | 21 | 22 | 22 | 23 | 1.059 |
| 83941 | NM_032027,NR_13 | **TM2D1** | TM2 domain containing 1 | protein_coding | 49 | 44 | 50 | 45 | 0.892 |
| 83942 | NM_032028 | **TSSK1B** | testis specific serine kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83943 | NM_001244606,NM | **IMMP2L** | inner mitochondrial mem | protein_coding | 3 | 2 | 4 | 3 | 0.875 |
| 83953 | NM_001122979,NM | **FCAMR** | Fc fragment of IgA and Ig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83955 | NR_002182 | **NACA4P** | NACA family member 4, | transcribed_pseu | 0 | 0 | 1 | 1 | 0.881 |
| 83956 | NR_026583 | **RACGAP1P1** | Rac GTPase activating p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 83957 | NR_033742 | **FRMD8P1** | FERM domain containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 83959 | NM_001174089,NM | **SLC4A11** | solute carrier family 4 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83982 | NM_032036 | **IFI27L2** | interferon alpha inducibl | protein_coding | 89 | 112 | 90 | 113 | 1.257 |
| 83983 | NM_032037 | **TSSK6** | testis specific serine kina | protein_coding | 2 | 3 | 3 | 4 | 1.181 |
| 83985 | NM_001142448,NM | **SPNS1** | sphingolipid transporter | protein_coding | 32 | 36 | 33 | 37 | 1.108 |
| 83986 | NM_001284497,NM | **FAM234A** | family with sequence sim | protein_coding | 23 | 24 | 24 | 25 | 1.080 |
| 83987 | NM_032040 | **CCDC8** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83988 | NM_001040624,NM | **NCALD** | neurocalcin delta | protein_coding | 40 | 37 | 41 | 38 | 0.912 |
| 83989 | NM_001163417,NM | **FAM172A** | family with sequence sim | protein_coding | 8 | 7 | 9 | 8 | 0.895 |
| 83990 | NM_032043,XM_01 | **BRIP1** | BRCA1 interacting protei | protein_coding | 14 | 11 | 15 | 12 | 0.803 |
| 83992 | NM_001363349,NM | **CTTNBP2** | cortactin binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83998 | NM_001159352,NM | **REG4** | regenerating family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 83999 | NM_001039570,NM | **KREMEN1** | kringle containing transm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84000 | NM_001077263,NM | **TMPRSS13** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84002 | NM_032047,XM_00 | **B3GNT5** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84033 | NM_001098623,NM | **OBSCN** | obscurin, cytoskeletal ca | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84034 | NM_032048,XM_01 | **EMILIN2** | elastin microfibril interfac | protein_coding | 5 | 6 | 6 | 7 | 1.098 |
| 84054 | NR_001282 | **PCDHB19P** | protocadherin beta 19 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84056 | NM_001014380,NM | **KATNAL1** | katanin catalytic subunit | protein_coding | 6 | 6 | 7 | 7 | 0.902 |
| 84057 | NM_001253861,NM | **MND1** | meiotic nuclear divisions | protein_coding | 69 | 60 | 70 | 61 | 0.877 |
| 84058 | NM_001320823,NM | **WDR54** | WD repeat domain 54 | protein_coding | 68 | 70 | 69 | 71 | 1.028 |
| 84059 | NM_032119,NR_00 | **ADGRV1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 84060 | NM_001363366,NM | **RBM48** | RNA binding motif protei | protein_coding | 13 | 12 | 14 | 13 | 0.932 |
| 84061 | NM_001367916,NM | **MAGT1** | magnesium transporter 1 | protein_coding | 65 | 57 | 66 | 58 | 0.886 |
| 84062 | NM_001271667,NM | **DTNBP1** | dystrobrevin binding prot | protein_coding | 33 | 39 | 34 | 40 | 1.154 |
| 84063 | NM_001329530,NM | **KIRREL2** | kirre like nephrin family a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84064 | NM_001318765,NM | **HDHD2** | haloacid dehalogenase l | protein_coding | 22 | 22 | 23 | 23 | 1.017 |
| 84065 | NM_032125,NR_03 | **TMEM222** | transmembrane protein 2 | protein_coding | 60 | 67 | 61 | 68 | 1.110 |
| 84066 | NM_001170722,NM | **TEX35** | testis expressed 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84067 | NM_001098794,NM | **FAM160A2** | family with sequence sim | protein_coding | 13 | 14 | 14 | 15 | 1.011 |
| 84068 | NM_001029998,NM | **SLC10A7** | solute carrier family 10 m | protein_coding | 10 | 8 | 11 | 9 | 0.839 |
| 84069 | NM_001160184,NM | **PLEKHN1** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84070 | NM_032130,NR_02 | **FAM186B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 84071 | NM_001286609,NM | **ARMC2** | armadillo repeat containi | protein_coding | 1 | 2 | 2 | 3 | 1.606 |
| 84072 | NM_001199829,NM | **HORMAD1** | HORMA domain containi | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 84073 | NM_001366294,NM | **MYCBPAP** | MYCBP associated prote | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 84074 | NM_032134,NR_13 | **QRICH2** | glutamine rich 2 | protein_coding | 1 | 1 | 2 | 2 | 1.053 |
| 84075 | NM_032135 | **FSCB** | fibrous sheath CABYR b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84076 | NM_032136 | **TKTL2** | transketolase like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84077 | NM_001184957,NM | **C3orf20** | chromosome 3 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.947 |
| 84078 | NM_032138 | **KBTBD7** | kelch repeat and BTB do | protein_coding | 1 | 2 | 2 | 3 | 1.144 |
| 84079 | NM_032139,XM_00 | **ANKRD27** | ankyrin repeat domain 2 | protein_coding | 67 | 62 | 68 | 63 | 0.938 |
| 84080 | NM_032140,NR_13 | **ENKD1** | enkurin domain containir | protein_coding | 5 | 6 | 6 | 7 | 1.215 |
| 84081 | NM_001261467,NM | **NSRP1** | nuclear speckle splicing | protein_coding | 51 | 47 | 52 | 48 | 0.928 |
| 84083 | NM_001286568,NM | **ZRANB3** | zinc finger RANBP2-type | protein_coding | 3 | 3 | 4 | 4 | 0.996 |
| 84084 | NM_032144 | **RAB6C** | RAB6C, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 84085 | NM_001348092,NM | **FBXO30** | F-box protein 30 | protein_coding | 5 | 4 | 6 | 5 | 0.885 |
| 84089 | id-IGLVVII-41-1 | **IGLVVII-41-1** | immunoglobulin lambda | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84090 | id-IGLVVI-25-1 | **IGLVVI-25-1** | immunoglobulin lambda | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84091 | id-IGLVVI-22-1 | **IGLVVI-22-1** | immunoglobulin lambda | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84097 | id-IGLVIV-66-1 | **IGLVIV-66-1** | immunoglobulin lambda | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84099 | gene-ID2B | **ID2B** | inhibitor of DNA binding | pseudogene | 0 | 0 | 1 | 1 | 1.215 |
| 84100 | NM_001278293,NM | **ARL6** | ADP ribosylation factor li | protein_coding | 3 | 3 | 4 | 4 | 0.904 |
| 84101 | NM_001042403,NM | **USP44** | ubiquitin specific peptida | protein_coding | 8 | 7 | 9 | 8 | 0.833 |
| 84102 | NM_001352169,NM | **SLC41A2** | solute carrier family 41 m | protein_coding | 8 | 8 | 9 | 9 | 0.922 |
| 84103 | NM_032149,XM_01 | **C4orf17** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84105 | NM_032151 | **PCBD2** | pterin-4 alpha-carbinolar | protein_coding | 14 | 16 | 15 | 17 | 1.135 |
| 84106 | NM_032152,XM_00 | **PRAM1** | PML-RARA regulated ad | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 84107 | NM_001168378,NM | **ZIC4** | Zic family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84108 | NM_001011663,NM | **PCGF6** | polycomb group ring finç | protein_coding | 23 | 18 | 24 | 19 | 0.812 |
| 84109 | NM_198179,XM_01 | **QRFPR** | pyroglutamylated RFami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84124 | NM_001345967,NM | **ZNF394** | zinc finger protein 394 | protein_coding | 29 | 31 | 30 | 32 | 1.092 |
| 84125 | NM_001079910,XM | **LRRIQ1** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 84126 | NM_001271022,NM | **ATRIP** | ATR interacting protein | protein_coding | 13 | 11 | 14 | 12 | 0.845 |
| 84128 | NM_001303096,NM | **WDR75** | WD repeat domain 75 | protein_coding | 143 | 129 | 144 | 130 | 0.900 |
| 84129 | NM_032169,NR_13 | **ACAD11** | acyl-CoA dehydrogenase | protein_coding | 4 | 4 | 5 | 5 | 1.073 |
| 84131 | NM_001098802,NM | **CEP78** | centrosomal protein 78 | protein_coding | 16 | 15 | 17 | 16 | 0.932 |
| 84132 | NM_001365764,NM | **USP42** | ubiquitin specific peptida | protein_coding | 10 | 9 | 11 | 10 | 0.873 |
| 84133 | NM_001206998,NM | **ZNRF3** | zinc and ring finger 3 | protein_coding | 0 | 0 | 1 | 1 | 0.889 |
| 84134 | NM_001286373,NM | **TOMM40L** | translocase of outer mito | protein_coding | 54 | 56 | 55 | 57 | 1.033 |
| 84135 | NM_001284430,NM | **UTP15** | UTP15 small subunit pro | protein_coding | 35 | 33 | 36 | 34 | 0.951 |
| 84138 | NM_032178,XM_01 | **SLC7A6OS** | solute carrier family 7 me | protein_coding | 19 | 18 | 20 | 19 | 0.966 |
| 84140 | NM_001201543,NM | **FAM161A** | FAM161 centrosomal prc | protein_coding | 6 | 6 | 7 | 7 | 0.943 |
| 84141 | NM_001135032,NM | **EVA1A** | eva-1 homolog A, regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84142 | NM_001345962,NM | **ABRAXAS1** | abraxas 1, BRCA1 A com | protein_coding | 7 | 6 | 8 | 7 | 0.944 |
| 84144 | NM_032184,XM_00 | **SYDE2** | synapse defective Rho G | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 84146 | NM_016620,NM_03 | **ZNF644** | zinc finger protein 644 | protein_coding | 41 | 34 | 42 | 35 | 0.843 |
| 84148 | NM_032188,NM_18 | **KAT8** | lysine acetyltransferase 8 | protein_coding | 41 | 41 | 42 | 42 | 1.014 |
| 84152 | NM_001242464,NM | **PPP1R1B** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84153 | NM_032193 | **RNASEH2C** | ribonuclease H2 subunit | protein_coding | 55 | 59 | 56 | 60 | 1.071 |
| 84154 | NM_001289111,NM | **RPF2** | ribosome production fact | protein_coding | 58 | 50 | 59 | 51 | 0.871 |
| 84159 | NM_001244638,NM | **ARID5B** | AT-rich interaction domai | protein_coding | 3 | 3 | 4 | 4 | 0.938 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 84162 | NM_015312,XM_00 | **KIAA1109** | KIAA1109 | protein_coding | 11 | 8 | 12 | 9 | 0.784 |
| 84163 | NM_001281447,NM | **GTF2IRD2** | GTF2I repeat domain co | protein_coding | 4 | 5 | 5 | 6 | 1.206 |
| 84164 | NM_001242906,NM | **ASCC2** | activating signal cointegr | protein_coding | 53 | 56 | 54 | 57 | 1.046 |
| 84166 | NM_001330552,NM | **NLRC5** | NLR family CARD domai | protein_coding | 25 | 24 | 26 | 25 | 0.964 |
| 84167 | NM_001288834,NM | **C19orf44** | chromosome 19 open rea | protein_coding | 4 | 5 | 5 | 6 | 1.006 |
| 84168 | NM_018153,NM_03 | **ANTXR1** | ANTXR cell adhesion mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84171 | NM_032211,XM_00 | **LOXL4** | lysyl oxidase like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84172 | NM_001137604,NM | **POLR1B** | RNA polymerase I subun | protein_coding | 58 | 52 | 59 | 53 | 0.904 |
| 84173 | NM_001135021,NM | **ELMOD3** | ELMO domain containing | protein_coding | 14 | 12 | 15 | 13 | 0.898 |
| 84174 | NM_032214,NM_17 | **SLA2** | Src like adaptor 2 | protein_coding | 222 | 202 | 223 | 203 | 0.910 |
| 84176 | NR_002147 | **MYH16** | myosin heavy chain 16 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84179 | NM_001294341,NM | **SLC49A3** | solute carrier family 49 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84181 | NM_032221,XM_00 | **CHD6** | chromodomain helicase l | protein_coding | 11 | 10 | 12 | 11 | 0.879 |
| 84182 | NM_032222 | **MINDY4** | MINDY lysine 48 deubiqu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84186 | NM_001289119,NM | **ZCCHC7** | zinc finger CCHC-type co | protein_coding | 25 | 21 | 26 | 22 | 0.857 |
| 84187 | NM_001353849,NM | **TMEM164** | transmembrane protein 1 | protein_coding | 17 | 18 | 18 | 19 | 1.046 |
| 84188 | NM_032228,XM_01 | **FAR1** | fatty acyl-CoA reductase | protein_coding | 93 | 77 | 94 | 78 | 0.836 |
| 84189 | NM_032229 | **SLITRK6** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84190 | NM_001319675,NM | **METTL25** | methyltransferase like 25 | protein_coding | 1 | 2 | 2 | 3 | 1.449 |
| 84191 | NM_001014812,NM | **CIAO2A** | cytosolic iron-sulfur asse | protein_coding | 197 | 188 | 198 | 189 | 0.953 |
| 84193 | NM_032233,NM_19 | **SETD3** | SET domain containing 3 | protein_coding | 81 | 75 | 82 | 76 | 0.921 |
| 84196 | NM_001032730,NM | **USP48** | ubiquitin specific peptida | protein_coding | 49 | 48 | 50 | 49 | 0.987 |
| 84197 | NM_001277971,NM | **POMK** | protein O-mannose kinas | protein_coding | 22 | 16 | 23 | 17 | 0.722 |
| 84203 | NM_001098529,NM | **TXNDC2** | thioredoxin domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84206 | NM_032246 | **MEX3B** | mex-3 RNA binding famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84210 | NM_032250 | **ANKRD20A1** | ankyrin repeat domain 2( | protein_coding | 0 | 0 | 1 | 1 | 0.874 |
| 84214 | XR_002956508 | **LOC84214** | uncharacterized LOC842 | lncRNA | 1 | 1 | 2 | 2 | 0.805 |
| 84215 | NM_001277075,XM | **ZNF541** | zinc finger protein 541 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84216 | NM_001286211,NM | **TMEM117** | transmembrane protein 1 | protein_coding | 1 | 1 | 2 | 2 | 1.173 |
| 84217 | NM_001146192,NM | **ZMYND12** | zinc finger MYND-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84218 | NM_032258 | **TBC1D3F** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 84219 | NM_032259,XM_01 | **WDR24** | WD repeat domain 24 | protein_coding | 11 | 11 | 12 | 12 | 1.030 |
| 84220 | NM_005054,NM_03 | **RGPD5** | RANBP2 like and GRIP d | protein_coding | 1 | 1 | 2 | 2 | 0.963 |
| 84221 | NM_001142854,NM | **SPATC1L** | spermatogenesis and ce | protein_coding | 8 | 9 | 9 | 10 | 1.182 |
| 84222 | NR_026815 | **TMEM191A** | transmembrane protein 1 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.044 |
| 84223 | NM_001134435,NM | **IQCG** | IQ motif containing G | protein_coding | 4 | 4 | 5 | 5 | 1.015 |
| 84224 | NM_001256416,NM | **NBPF3** | NBPF member 3 | protein_coding | 7 | 7 | 8 | 8 | 1.010 |
| 84225 | NM_001136046,NM | **ZMYND15** | zinc finger MYND-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84226 | NM_032266 | **C2orf16** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84229 | NM_001289162,NM | **DRC7** | dynein regulatory compl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84230 | NM_032270,XM_00 | **LRRC8C** | leucine rich repeat conta | protein_coding | 43 | 34 | 44 | 35 | 0.805 |
| 84231 | NM_032271,XM_00 | **TRAF7** | TNF receptor associated | protein_coding | 65 | 60 | 66 | 61 | 0.921 |
| 84232 | NM_032272 | **MAF1** | MAF1 homolog, negative | protein_coding | 41 | 39 | 42 | 40 | 0.952 |
| 84233 | NM_001244735,NM | **TMEM126A** | transmembrane protein 1 | protein_coding | 126 | 121 | 127 | 122 | 0.959 |
| 84236 | NM_001167608,NM | **RHBDD1** | rhomboid domain contair | protein_coding | 22 | 20 | 23 | 21 | 0.931 |
| 84239 | NM_032279,XM_01 | **ATP13A4** | ATPase 13A4 | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 84240 | NM_001131035,NM | **ZCCHC9** | zinc finger CCHC-type co | protein_coding | 54 | 48 | 55 | 49 | 0.886 |
| 84243 | NM_032283 | **ZDHHC18** | zinc finger DHHC-type pa | protein_coding | 90 | 84 | 91 | 85 | 0.933 |
| 84245 | NM_001031727,NM | **MRI1** | methylthioribose-1-phos | protein_coding | 21 | 21 | 22 | 22 | 1.024 |
| 84246 | NM_032286 | **MED10** | mediator complex subun | protein_coding | 83 | 85 | 84 | 86 | 1.025 |
| 84247 | NM_032287 | **RTL6** | retrotransposon Gag like | protein_coding | 13 | 13 | 14 | 14 | 0.977 |
| 84248 | NM_001011537,NM | **FYTTD1** | forty-two-three domain co | protein_coding | 31 | 28 | 32 | 29 | 0.923 |
| 84249 | NM_032289,XM_01 | **PSD2** | pleckstrin and Sec7 dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84250 | NM_032290,XM_01 | **SLF1** | SMC5-SMC6 complex lo | protein_coding | 21 | 14 | 22 | 15 | 0.692 |
| 84251 | NM_001308203,NM | **SGIP1** | SH3GL interacting endoc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84253 | NM_001286779,NM | **GARNL3** | GTPase activating Rap/R | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 84254 | NM_032294,NM_17 | **CAMKK1** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84255 | NM_001287498,NM | **SLC37A3** | solute carrier family 37 m | protein_coding | 9 | 8 | 10 | 9 | 0.894 |
| 84256 | NM_001308068,NM | **FLYWCH1** | FLYWCH-type zinc finge | protein_coding | 13 | 12 | 14 | 13 | 0.950 |
| 84258 | NM_001160328,NM | **SYT3** | synaptotagmin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84259 | NM_001318739,NM | **DCUN1D5** | defective in cullin neddyl | protein_coding | 16 | 19 | 17 | 20 | 1.152 |
| 84260 | NM_001143852,NM | **TCHP** | trichoplein keratin filame | protein_coding | 37 | 36 | 38 | 37 | 0.964 |
| 84261 | NM_032301,XM_00 | **FBXW9** | F-box and WD repeat do | protein_coding | 5 | 5 | 6 | 6 | 1.055 |
| 84262 | NM_001134340,NM | **PSMG3** | proteasome assembly ch | protein_coding | 62 | 67 | 63 | 68 | 1.072 |
| 84263 | NM_001195822,NM | **HSDL2** | hydroxysteroid dehydrog | protein_coding | 26 | 22 | 27 | 23 | 0.830 |
| 84264 | NM_001290137,NM | **HAGHL** | hydroxyacylglutathione h | protein_coding | 10 | 11 | 11 | 12 | 1.117 |
| 84265 | NM_001330685,NM | **POLR3GL** | RNA polymerase III subu | protein_coding | 40 | 50 | 41 | 51 | 1.225 |
| 84266 | NM_032306,XM_00 | **ALKBH7** | alkB homolog 7 | protein_coding | 21 | 23 | 22 | 24 | 1.123 |
| 84267 | NM_001317997,NM | **C9orf64** | chromosome 9 open rea | protein_coding | 34 | 34 | 35 | 35 | 1.001 |
| 84268 | NM_001033002,NM | **RPAIN** | RPA interacting protein | protein_coding | 37 | 38 | 38 | 39 | 1.012 |
| 84269 | NM_001304353,NM | **CHCHD5** | coiled-coil-helix-coiled-cc | protein_coding | 59 | 70 | 60 | 71 | 1.180 |
| 84270 | NM_001318010,NM | **CARD19** | caspase recruitment dom | protein_coding | 24 | 29 | 25 | 30 | 1.175 |
| 84271 | NM_001278657,NM | **POLDIP3** | DNA polymerase delta in | protein_coding | 61 | 61 | 62 | 62 | 1.004 |
| 84272 | NM_032312,XM_00 | **YIPF4** | Yip1 domain family mem | protein_coding | 5 | 4 | 6 | 5 | 0.905 |
| 84273 | NM_032313 | **NOA1** | nitric oxide associated 1 | protein_coding | 30 | 32 | 31 | 33 | 1.073 |
| 84274 | NM_032314,XM_00 | **COQ5** | coenzyme Q5, methyltra | protein_coding | 48 | 51 | 49 | 52 | 1.074 |
| 84275 | NM_032315,XM_00 | **SLC25A33** | solute carrier family 25 m | protein_coding | 23 | 22 | 24 | 23 | 0.957 |
| 84276 | NM_032316 | **NICN1** | nicolin 1 | protein_coding | 7 | 7 | 8 | 8 | 0.983 |
| 84277 | NM_032317 | **DNAJC30** | DnaJ heat shock protein | protein_coding | 7 | 10 | 8 | 11 | 1.295 |
| 84278 | NM_001355228,NM | **MFSD14C** | major facilitator superfan | protein_coding | 9 | 7 | 10 | 8 | 0.771 |
| 84279 | NM_032319,NR_14 | **PRADC1** | protease associated dom | protein_coding | 50 | 56 | 51 | 57 | 1.128 |
| 84280 | NM_001297741,NM | **BTBD10** | BTB domain containing 1 | protein_coding | 56 | 53 | 57 | 54 | 0.952 |
| 84281 | NM_001042519,NM | **C2orf88** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84282 | NM_001184992,NM | **RNF135** | ring finger protein 135 | protein_coding | 4 | 5 | 5 | 6 | 1.075 |
| 84283 | NM_032323,NR_02 | **TMEM79** | transmembrane protein 7 | protein_coding | 31 | 31 | 32 | 32 | 1.022 |
| 84284 | NM_001329452,NM | **NTPCR** | nucleoside-triphosphatas | protein_coding | 4 | 4 | 5 | 5 | 0.984 |
| 84285 | NM_001242481,NM | **EIF1AD** | eukaryotic translation init | protein_coding | 42 | 40 | 43 | 41 | 0.953 |
| 84286 | NM_001297423,NM | **TMEM175** | transmembrane protein 1 | protein_coding | 8 | 11 | 9 | 12 | 1.306 |
| 84287 | NM_001287803,NM | **ZDHHC16** | zinc finger DHHC-type pa | protein_coding | 49 | 50 | 50 | 51 | 1.010 |
| 84288 | NM_001143943,NM | **EFCAB2** | EF-hand calcium binding | protein_coding | 7 | 8 | 8 | 9 | 1.131 |
| 84289 | NM_001330161,NM | **ING5** | inhibitor of growth family | protein_coding | 34 | 40 | 35 | 41 | 1.147 |
| 84290 | NM_032330 | **CAPNS2** | calpain small subunit 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84292 | NM_001099737,NM | **WDR83** | WD repeat domain 83 | protein_coding | 12 | 13 | 13 | 14 | 1.061 |
| 84293 | NM_001243778,NM | **PRXL2A** | peroxiredoxin like 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84294 | NM_032334 | **UTP23** | UTP23 small subunit pro | protein_coding | 49 | 44 | 50 | 45 | 0.901 |
| 84295 | NM_001015877,NM | **PHF6** | PHD finger protein 6 | protein_coding | 73 | 63 | 74 | 64 | 0.864 |
| 84296 | NM_032336,XM_00 | **GINS4** | GINS complex subunit 4 | protein_coding | 47 | 45 | 48 | 46 | 0.960 |
| 84298 | NM_032338 | **LLPH** | LLP homolog, long-term | protein_coding | 21 | 20 | 22 | 21 | 0.979 |
| 84299 | NM_001330206,NM | **MIEN1** | migration and invasion en | protein_coding | 75 | 77 | 76 | 78 | 1.026 |
| 84300 | NM_032340 | **UQCC2** | ubiquinol-cytochrome c r | protein_coding | 44 | 46 | 45 | 47 | 1.057 |
| 84301 | NM_032341 | **DDI2** | DNA damage inducible 1 | protein_coding | 42 | 33 | 43 | 34 | 0.798 |
| 84302 | NM_001303107,NM | **PGAP4** | post-GPI attachment to p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84303 | NM_001320610,NM | **CHCHD6** | coiled-coil-helix-coiled-cc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84304 | NM_001128612,NM | **NUDT22** | nudix hydrolase 22 | protein_coding | 36 | 34 | 37 | 35 | 0.962 |
| 84305 | NM_001143853,NM | **PYM1** | PYM homolog 1, exon ju | protein_coding | 85 | 86 | 86 | 87 | 1.006 |
| 84306 | NM_001353433,NM | **PDCD2L** | programmed cell death 2 | protein_coding | 31 | 33 | 32 | 34 | 1.080 |
| 84307 | NM_001135178,NM | **ZNF397** | zinc finger protein 397 | protein_coding | 9 | 6 | 10 | 7 | 0.756 |
| 84309 | NM_001193452,NM | **NUDT16L1** | nudix hydrolase 16 like 1 | protein_coding | 50 | 57 | 51 | 58 | 1.136 |
| 84310 | NM_001134395,NM | **C7orf50** | chromosome 7 open rea | protein_coding | 87 | 84 | 88 | 85 | 0.956 |
| 84311 | NM_001278279,NM | **MRPL45** | mitochondrial ribosomal | protein_coding | 80 | 82 | 81 | 83 | 1.030 |
| 84312 | NM_032352,XM_00 | **BRMS1L** | BRMS1 like transcription | protein_coding | 9 | 7 | 10 | 8 | 0.821 |
| 84313 | NM_032353 | **VPS25** | vacuolar protein sorting 2 | protein_coding | 183 | 184 | 184 | 185 | 1.007 |
| 84314 | NM_001351278,NM | **TMEM107** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84315 | NM_001142501,NM | **MON1A** | MON1 homolog A, secre | protein_coding | 25 | 26 | 26 | 27 | 1.049 |
| 84316 | NM_001320924,NM | **NAA38** | N-alpha-acetyltransferas | protein_coding | 46 | 45 | 47 | 46 | 0.988 |
| 84317 | NM_001321118,NM | **CCDC115** | coiled-coil domain contai | protein_coding | 28 | 29 | 29 | 30 | 1.025 |
| 84318 | NM_001130146,NM | **CCDC77** | coiled-coil domain contai | protein_coding | 16 | 16 | 17 | 17 | 0.969 |
| 84319 | NM_001167924,NM | **CMSS1** | cms1 ribosomal small su | protein_coding | 41 | 39 | 42 | 40 | 0.941 |
| 84320 | NM_032360,XR_00 | **ACBD6** | acyl-CoA binding domair | protein_coding | 76 | 76 | 77 | 77 | 1.005 |
| 84321 | NM_001376902,NM | **THOC3** | THO complex 3 | protein_coding | 141 | 138 | 142 | 139 | 0.978 |
| 84322 | NM_001350280 | **C18orf12** | chromosome 18 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84324 | NM_033082,NR_02 | **SARNP** | SAP domain containing r | protein_coding | 180 | 177 | 181 | 178 | 0.980 |
| 84326 | NM_001040160,NM | **METTL26** | methyltransferase like 26 | protein_coding | 106 | 113 | 107 | 114 | 1.058 |
| 84327 | NM_001329564,NM | **ZBED3** | zinc finger BED-type con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84328 | NM_001316973,NM | **LZIC** | leucine zipper and CTN | protein_coding | 46 | 42 | 47 | 43 | 0.907 |
| 84329 | NM_001040107,NM | **HVCN1** | hydrogen voltage gated | protein_coding | 254 | 251 | 255 | 252 | 0.990 |

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|---|---|---|---|---|---|---|---|---|---|
| 84330 | NM_001146175,NM | **ZNF414** | zinc finger protein 414 | protein_coding | 8 | 9 | 9 | 10 | 1.030 |
| 84331 | NM_001331229,NM | **MCRIP2** | MAPK regulated corepre | protein_coding | 8 | 10 | 9 | 11 | 1.263 |
| 84332 | NM_001270041,NM | **DYDC2** | DPY30 domain containin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84333 | NM_001256549,NM | **PCGF5** | polycomb group ring fin | protein_coding | 44 | 39 | 45 | 40 | 0.881 |
| 84334 | NM_001302652,NM | **COA8** | cytochrome c oxidase as | protein_coding | 47 | 46 | 48 | 47 | 0.979 |
| 84335 | NM_001098632,NM | **AKT1S1** | AKT1 substrate 1 | protein_coding | 15 | 15 | 16 | 16 | 1.040 |
| 84336 | NM_001304813,NM | **TMEM101** | transmembrane protein 1 | protein_coding | 49 | 52 | 50 | 53 | 1.066 |
| 84337 | NM_001363673,NM | **ELOF1** | elongation factor 1 homo | protein_coding | 198 | 192 | 199 | 193 | 0.970 |
| 84340 | NM_001281302,NM | **GFM2** | GTP dependent ribosom | protein_coding | 38 | 37 | 39 | 38 | 0.970 |
| 84342 | NM_001374871,NM | **COG8** | component of oligomeric | protein_coding | 16 | 16 | 17 | 17 | 1.029 |
| 84343 | NM_001308258,NM | **HPS3** | HPS3 biogenesis of lyso | protein_coding | 28 | 26 | 29 | 27 | 0.934 |
| 84364 | NM_001242832,NM | **ARFGAP2** | ADP ribosylation factor G | protein_coding | 89 | 89 | 90 | 90 | 1.002 |
| 84365 | NM_032390 | **NIFK** | nucleolar protein interact | protein_coding | 216 | 206 | 217 | 207 | 0.954 |
| 84366 | NM_032391 | **PRAC1** | PRAC1 small nuclear pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84376 | NM_032410 | **HOOK3** | hook microtubule tetheri | protein_coding | 13 | 11 | 14 | 12 | 0.833 |
| 84417 | NM_032411,XM_00 | **ECRG4** | ECRG4 augurin precurs | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84418 | NM_032412 | **CYSTM1** | cysteine rich transmemb | protein_coding | 169 | 169 | 170 | 170 | 1.005 |
| 84419 | NM_032413,NM_19 | **C15orf48** | chromosome 15 open re | protein_coding | 0 | 0 | 1 | 1 | 0.678 |
| 84432 | NM_032414 | **PROK1** | prokineticin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84433 | NM_001324281,NM | **CARD11** | caspase recruitment dor | protein_coding | 177 | 172 | 178 | 173 | 0.973 |
| 84435 | NM_001083909,NM | **ADGRA1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84436 | NM_032423,XM_00 | **ZNF528** | zinc finger protein 528 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84437 | NM_001318747,NM | **MSANTD4** | Myb/SANT DNA binding | protein_coding | 42 | 35 | 43 | 36 | 0.826 |
| 84439 | NM_001127258,NM | **HHIPL1** | HHIP like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84440 | NM_001303542,NM | **RAB11FIP4** | RAB11 family interacting | protein_coding | 7 | 6 | 8 | 7 | 0.855 |
| 84441 | NM_032427,XM_01 | **MAML2** | mastermind like transcrip | protein_coding | 4 | 3 | 5 | 4 | 0.835 |
| 84443 | NM_032428,XM_00 | **FRMPD3** | FERM and PDZ domain | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 84444 | NM_032482,XM_00 | **DOT1L** | DOT1 like histone lysine | protein_coding | 43 | 49 | 44 | 50 | 1.128 |
| 84445 | NM_001318099,NM | **LZTS2** | leucine zipper tumor sup | protein_coding | 4 | 3 | 5 | 4 | 0.930 |
| 84446 | NM_032430,XM_00 | **BRSK1** | BR serine/threonine kina | protein_coding | 1 | 2 | 2 | 3 | 1.211 |
| 84447 | NM_032431,NM_17 | **SYVN1** | synoviolin 1 | protein_coding | 35 | 38 | 36 | 39 | 1.073 |
| 84448 | NM_001130083,NM | **ABLIM2** | actin binding LIM protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84449 | NM_001300912,NM | **ZNF333** | zinc finger protein 333 | protein_coding | 2 | 2 | 3 | 3 | 1.015 |
| 84450 | NM_001271286,NM | **ZNF512** | zinc finger protein 512 | protein_coding | 49 | 45 | 50 | 46 | 0.929 |
| 84451 | NM_032435,XM_01 | **MAP3K21** | mitogen-activated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84455 | NM_032437,XM_00 | **EFCAB7** | EF-hand calcium bindinc | protein_coding | 8 | 8 | 9 | 9 | 0.980 |
| 84456 | NM_001007102,NM | **L3MBTL3** | L3MBTL histone methyl-l | protein_coding | 12 | 10 | 13 | 11 | 0.879 |
| 84457 | NM_001143774,NM | **PHYHIPL** | phytanoyl-CoA 2-hydrox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84458 | NM_001170765,NM | **LCOR** | ligand dependent nuclea | protein_coding | 13 | 11 | 14 | 12 | 0.825 |
| 84460 | NM_001011657,NM | **ZMAT1** | zinc finger matrin-type 1 | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 84461 | NM_001005408,NM | **NEURL4** | neuralized E3 ubiquitin p | protein_coding | 13 | 14 | 14 | 15 | 1.024 |
| 84464 | NM_032444,XM_01 | **SLX4** | SLX4 structure-specific e | protein_coding | 12 | 9 | 13 | 10 | 0.808 |
| 84465 | NM_032445,XM_01 | **MEGF11** | multiple EGF like domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84466 | NM_001256545,NM | **MEGF10** | multiple EGF like domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84467 | NM_001321431,NM | **FBN3** | fibrillin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84498 | NM_001286379,NM | **FAM120B** | family with sequence sim | protein_coding | 20 | 18 | 21 | 19 | 0.893 |
| 84501 | NM_032451 | **SPIRE2** | spire type actin nucleatic | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 84502 | NM_001146028,NM | **JPH4** | junctophilin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84503 | NM_032453,XM_00 | **ZNF527** | zinc finger protein 527 | protein_coding | 1 | 1 | 2 | 2 | 0.962 |
| 84504 | NM_177400,XM_01 | **NKX6-2** | NK6 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84513 | NM_001102559,NM | **PLPP5** | phospholipid phosphatas | protein_coding | 16 | 16 | 17 | 17 | 0.998 |
| 84514 | NM_001142623,NM | **GHDC** | GH3 domain containing | protein_coding | 20 | 20 | 21 | 21 | 1.002 |
| 84515 | NM_001281520,NM | **MCM8** | minichromosome mainte | protein_coding | 40 | 36 | 41 | 37 | 0.915 |
| 84516 | NM_001199011,NM | **DCTN5** | dynactin subunit 5 | protein_coding | 36 | 30 | 37 | 31 | 0.842 |
| 84517 | NM_032487 | **ACTRT3** | actin related protein T3 | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 84518 | NM_032488,XM_00 | **CNFN** | cornifelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84519 | NM_032489 | **ACRBP** | acrosin binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84520 | NM_032490 | **GON7** | GON7 subunit of KEOPS | protein_coding | 76 | 69 | 77 | 70 | 0.907 |
| 84522 | NM_001363890,NM | **JAGN1** | jagunal homolog 1 | protein_coding | 47 | 49 | 48 | 50 | 1.053 |
| 84524 | NM_032494,XM_01 | **ZC3H8** | zinc finger CCCH-type c | protein_coding | 32 | 29 | 33 | 30 | 0.894 |
| 84525 | NM_001145459,NM | **HOPX** | HOP homeobox | protein_coding | 214 | 224 | 215 | 225 | 1.049 |
| 84527 | NM_001202406,NM | **ZNF559** | zinc finger protein 559 | protein_coding | 8 | 5 | 9 | 6 | 0.746 |
| 84528 | NM_032498,XM_00 | **RHOXF2** | Rhox homeobox family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84529 | NM_001130010,NM | **CDIN1** | CDAN1 interacting nucle | protein_coding | 8 | 7 | 9 | 8 | 0.937 |
| 84530 | NM_194286 | **SRRM4** | serine/arginine repetitive | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84532 | NM_001252675,NM | **ACSS1** | acyl-CoA synthetase sho | protein_coding | 21 | 22 | 22 | 23 | 1.029 |
| 84536 | NR_027128,NR_02 | **LINC01547** | long intergenic non-prote | lncRNA | 13 | 14 | 14 | 15 | 1.097 |
| 84539 | NM_001040179,NM | **MCHR2** | melanin concentrating ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84541 | NM_032505,XM_00 | **KBTBD8** | kelch repeat and BTB do | protein_coding | 22 | 20 | 23 | 21 | 0.889 |
| 84542 | NM_001129993,NM | **KIAA1841** | KIAA1841 | protein_coding | 1 | 0 | 2 | 1 | 0.783 |
| 84545 | NM_001308396,NM | **MRPL43** | mitochondrial ribosomal | protein_coding | 54 | 58 | 55 | 59 | 1.058 |
| 84546 | NR_001285 | **SNORD35B** | small nucleolar RNA, C/I | snoRNA | 6 | 9 | 7 | 10 | 1.412 |
| 84547 | NM_001184743,NM | **PGBD1** | piggyBac transposable e | protein_coding | 8 | 8 | 9 | 9 | 1.074 |
| 84548 | NM_001174092,NM | **TMEM185A** | transmembrane protein 1 | protein_coding | 8 | 8 | 9 | 9 | 0.964 |
| 84549 | NM_032509 | **MAK16** | MAK16 homolog | protein_coding | 138 | 124 | 139 | 125 | 0.905 |
| 84552 | NM_032510 | **PARD6G** | par-6 family cell polarity | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84553 | NM_001346530,NM | **FAXC** | failed axon connections l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84557 | NM_032514,NM_18 | **MAP1LC3A** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84559 | NR_001555 | **GOLGA2P2Y** | GOLGA2 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 84560 | NM_032935 | **MT4** | metallothionein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84561 | NM_001195483,NM | **SLC12A8** | solute carrier family 12 m | protein_coding | 44 | 38 | 45 | 39 | 0.858 |
| 84569 | NM_032517,XM_00 | **LYZL1** | lysozyme like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84570 | NM_001256074,NM | **COL25A1** | collagen type XXV alpha | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 84572 | NM_032520,XM_01 | **GNPTG** | N-acetylglucosamine-1-p | protein_coding | 17 | 21 | 18 | 22 | 1.207 |
| 84612 | NM_032521 | **PARD6B** | par-6 family cell polarity | protein_coding | 2 | 1 | 3 | 2 | 0.947 |
| 84614 | NM_001122770,NM | **ZBTB37** | zinc finger and BTB dom | protein_coding | 4 | 3 | 5 | 4 | 0.793 |
| 84616 | NM_032524 | **KRTAP4-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84617 | NM_001303524,NM | **TUBB6** | tubulin beta 6 class V | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 84618 | NM_032526 | **NT5C1A** | 5'-nucleotidase, cytosolic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84619 | NM_001083113,NM | **ZGPAT** | zinc finger CCCH-type a | protein_coding | 34 | 32 | 35 | 33 | 0.945 |
| 84620 | NM_001142351,NM | **ST6GAL2** | ST6 beta-galactoside alp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84622 | NM_032530,XM_00 | **ZNF594** | zinc finger protein 594 | protein_coding | 9 | 8 | 10 | 9 | 0.906 |
| 84623 | NM_001161707,NM | **KIRREL3** | kirre like nephrin family a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84624 | NM_032532,XM_01 | **FNDC1** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84626 | NM_001290187,NM | **KRBA1** | KRAB-A domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84627 | NM_001367624,XM | **ZNF469** | zinc finger protein 469 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84628 | NM_032536,XM_00 | **NTNG2** | netrin G2 | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 84629 | NM_001080495,XM | **TNRC18** | trinucleotide repeat cont | protein_coding | 27 | 25 | 28 | 26 | 0.910 |
| 84630 | NM_032538,XM_01 | **TTBK1** | tau tubulin kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 84631 | NM_001144003,NM | **SLITRK2** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84632 | NM_001001936,NM | **AFAP1L2** | actin filament associated | protein_coding | 40 | 39 | 41 | 40 | 0.991 |
| 84634 | NM_032551,XM_01 | **KISS1R** | KISS1 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84636 | NM_032553 | **GPR174** | G protein-coupled recep | protein_coding | 28 | 23 | 29 | 24 | 0.839 |
| 84639 | NM_032556,NM_17 | **IL1F10** | interleukin 1 family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84640 | NM_001290325,NM | **USP38** | ubiquitin specific peptida | protein_coding | 18 | 17 | 19 | 18 | 0.940 |
| 84641 | NM_032558,XM_01 | **MFSD14B** | major facilitator superfan | protein_coding | 69 | 62 | 70 | 63 | 0.905 |
| 84643 | NM_032559 | **KIF2B** | kinesin family member 2I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84645 | NM_001207062,NM | **C22orf23** | chromosome 22 open re | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 84647 | NM_001318124,NM | **PLA2G12B** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84648 | NM_032563 | **LCE3D** | late cornified envelope 3I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84649 | NM_001253891,NM | **DGAT2** | diacylglycerol O-acyltran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84650 | NM_001278636,NM | **EBPL** | EBP like | protein_coding | 59 | 59 | 60 | 60 | 0.997 |
| 84651 | NM_032566 | **SPINK7** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84654 | NM_032567 | **SPZ1** | spermatogenic leucine zi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84656 | NM_001308096,NM | **GLYR1** | glyoxylate reductase 1 h | protein_coding | 81 | 79 | 82 | 80 | 0.973 |
| 84657 | NR_026829 | **LINC00852** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.136 |
| 84658 | NM_001289158,NM | **ADGRE3** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84659 | NM_032572 | **RNASE7** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84660 | NM_201435,NR_02 | **CCDC62** | coiled-coil domain contai | protein_coding | 2 | 1 | 3 | 2 | 0.720 |
| 84661 | NM_001321209,NM | **DPY30** | dpy-30 histone methyltra | protein_coding | 77 | 88 | 78 | 89 | 1.152 |
| 84662 | NM_001318918,NM | **GLIS2** | GLIS family zinc finger 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84665 | NM_001256267,NM | **MYPN** | myopalladin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84666 | NM_032579 | **RETNLB** | resistin like beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84667 | NM_001165967,NM | **HES7** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84668 | NM_001363466,NM | **FAM126A** | family with sequence sim | protein_coding | 21 | 18 | 22 | 19 | 0.829 |
| 84669 | NM_032582,XM_01 | **USP32** | ubiquitin specific peptida | protein_coding | 32 | 25 | 33 | 26 | 0.810 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 84671 | NM_001172674,NM | **ZNF347** | zinc finger protein 347 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84672 | NR_001527 | **TTTY6** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84673 | NR_001533 | **TTTY8** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84674 | NM_032587,XM_01 | **CARD6** | caspase recruitment dor | protein_coding | 11 | 11 | 12 | 12 | 0.952 |
| 84675 | NM_033058,NM_18 | **TRIM55** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84676 | NM_032588,XM_01 | **TRIM63** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84677 | NR_026838,NR_02 | **DSCR8** | Down syndrome critical r | lncRNA | 151 | 144 | 152 | 145 | 0.950 |
| 84678 | NM_001005366,NM | **KDM2B** | lysine demethylase 2B | protein_coding | 30 | 28 | 31 | 29 | 0.932 |
| 84679 | NM_001257291,NM | **SLC9A7** | solute carrier family 9 me | protein_coding | 4 | 3 | 5 | 4 | 0.784 |
| 84680 | NM_001127219,NM | **ACCS** | 1-aminocyclopropane-1-( | protein_coding | 1 | 1 | 2 | 2 | 0.964 |
| 84681 | NM_032593,XM_02 | **HINT2** | histidine triad nucleotide | protein_coding | 38 | 45 | 39 | 46 | 1.156 |
| 84684 | NM_032594 | **INSM2** | INSM transcriptional repr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84687 | NM_032595 | **PPP1R9B** | protein phosphatase 1 re | protein_coding | 55 | 55 | 56 | 56 | 0.992 |
| 84688 | NM_001252195,NM | **C9orf24** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 84689 | NM_001079692,NM | **MS4A14** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84690 | NM_001170695,NM | **SPATA22** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84691 | NM_001282788,NM | **FAM71F1** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84692 | NM_032600 | **CCDC54** | coiled-coil domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84693 | NM_032601,XM_00 | **MCEE** | methylmalonyl-CoA epim | protein_coding | 12 | 17 | 13 | 18 | 1.352 |
| 84694 | NM_032602 | **GJA10** | gap junction protein alph | protein_coding | 3 | 3 | 4 | 4 | 0.866 |
| 84695 | NM_001289164,NM | **LOXL3** | lysyl oxidase like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84696 | NM_032604,XM_01 | **ABHD1** | abhydrolase domain con | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 84698 | NM_001286547,NM | **CAPS2** | calcyphosine 2 | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 84699 | NM_001271995,NM | **CREB3L3** | cAMP responsive elemer | protein_coding | 38 | 33 | 39 | 34 | 0.867 |
| 84700 | NM_001318245,NM | **MYO18B** | myosin XVIIIB | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84701 | NM_032609,XM_00 | **COX4I2** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84705 | NM_001128855,NM | **GTPBP3** | GTP binding protein 3, n | protein_coding | 32 | 32 | 33 | 33 | 1.009 |
| 84706 | NM_001142466,NM | **GPT2** | glutamic--pyruvic transar | protein_coding | 9 | 7 | 10 | 8 | 0.829 |
| 84707 | NM_001168399,NM | **BEX2** | brain expressed X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84708 | NM_001126328,NM | **LNX1** | ligand of numb-protein X | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84709 | NM_032623 | **MGARP** | mitochondria localized gl | protein_coding | 0 | 0 | 1 | 1 | 1.165 |
| 84717 | NM_001001520,NM | **HDGFL2** | HDGF like 2 | protein_coding | 59 | 62 | 60 | 63 | 1.057 |
| 84719 | NR_046213 | **LINC00260** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.164 |
| 84720 | NM_001201484,NM | **PIGO** | phosphatidylinositol glyc | protein_coding | 14 | 16 | 15 | 17 | 1.122 |
| 84722 | NM_001005290,NM | **PSRC1** | proline and serine rich co | protein_coding | 46 | 47 | 47 | 48 | 1.020 |
| 84725 | NM_001197026,NM | **PLEKHA8** | pleckstrin homology dor | protein_coding | 1 | 1 | 2 | 2 | 1.057 |
| 84726 | NM_013318 | **PRRC2B** | proline rich coiled-coil 2E | protein_coding | 57 | 52 | 58 | 53 | 0.910 |
| 84727 | NM_001146316,NM | **SPSB2** | splA/ryanodine receptor | protein_coding | 8 | 8 | 9 | 9 | 0.953 |
| 84733 | NM_005189,NM_03 | **CBX2** | chromobox 2 | protein_coding | 14 | 14 | 15 | 15 | 1.003 |
| 84734 | NM_032648 | **FAM167B** | family with sequence sir | protein_coding | 1 | 1 | 2 | 2 | 1.054 |
| 84735 | NM_032649 | **CNDP1** | carnosine dipeptidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84740 | NR_026892 | **AFAP1-AS1** | AFAP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 84747 | NM_001080533 | **UNC119B** | unc-119 lipid binding cha | protein_coding | 14 | 12 | 15 | 13 | 0.881 |
| 84749 | NM_001301175,NM | **USP30** | ubiquitin specific peptida | protein_coding | 5 | 5 | 6 | 6 | 0.995 |
| 84750 | NM_032664,XM_01 | **FUT10** | fucosyltransferase 10 | protein_coding | 2 | 1 | 3 | 2 | 0.783 |
| 84752 | NM_033309 | **B3GNT9** | UDP-GlcNAc:betaGal be | protein_coding | 1 | 1 | 2 | 2 | 1.034 |
| 84759 | NM_032673,XM_02 | **PCGF1** | polycomb group ring finc | protein_coding | 30 | 27 | 31 | 28 | 0.915 |
| 84765 | NM_001135590,NM | **ZNF577** | zinc finger protein 577 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84766 | NM_001144958,NM | **CRACR2A** | calcium release activatec | protein_coding | 13 | 11 | 14 | 12 | 0.859 |
| 84767 | NM_032681 | **TRIM51** | tripartite motif-containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84769 | NM_032683 | **MPV17L2** | MPV17 mitochondrial inn | protein_coding | 51 | 56 | 52 | 57 | 1.105 |
| 84771 | NR_024004,NR_02 | **DDX11L2** | DEAD/H-box helicase 11 | transcribed_pseu | 3 | 2 | 4 | 3 | 0.725 |
| 84775 | NM_001172677,NM | **ZNF607** | zinc finger protein 607 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 84777 | NR_119377 | **DLGAP1-AS2** | DLGAP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.924 |
| 84779 | NM_032693,XM_01 | **NAA11** | N-alpha-acetyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84787 | NM_032701,XM_00 | **KMT5C** | lysine methyltransferase | protein_coding | 6 | 8 | 7 | 9 | 1.209 |
| 84789 | NR_026877 | **MGC2889** | uncharacterized protein I | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84790 | NM_001303114,NM | **TUBA1C** | tubulin alpha 1c | protein_coding | 437 | 465 | 438 | 466 | 1.064 |
| 84791 | NR_026761 | **LINC00467** | long intergenic non-prote | lncRNA | 3 | 4 | 4 | 5 | 1.138 |
| 84792 | NM_001037163 | **FAM220A** | family with sequence sir | protein_coding | 22 | 21 | 23 | 22 | 0.946 |
| 84793 | NR_026878 | **FOXD2-AS1** | FOXD2 adjacent opposit | lncRNA | 11 | 12 | 12 | 13 | 1.108 |
| 84795 | NM_032709,XM_01 | **PYROXD2** | pyridine nucleotide-disul | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 84798 | NM_001290149,NM | **C19orf48** | chromosome 19 open rea | protein_coding | 180 | 192 | 181 | 193 | 1.064 |
| 84803 | NM_001256421,NM | **GPAT3** | glycerol-3-phosphate ac | protein_coding | 0 | 0 | 1 | 1 | 0.854 |
| 84804 | NM_001322080,NM | **MFSD9** | major facilitator superfan | protein_coding | 14 | 14 | 15 | 15 | 0.947 |
| 84807 | NM_001321831,NM | **NFKBID** | NFKB inhibitor delta | protein_coding | 8 | 9 | 9 | 10 | 1.047 |
| 84808 | NM_001291366,NM | **PERM1** | PPARGC1 and ESRR in | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84809 | NR_026752 | **CROCCP2** | CROCC pseudogene 2 | transcribed_pseu | 13 | 13 | 14 | 14 | 0.939 |
| 84811 | NM_001159736,NM | **BUD13** | BUD13 homolog | protein_coding | 47 | 50 | 48 | 51 | 1.065 |
| 84812 | NM_032726,XM_00 | **PLCD4** | phospholipase C delta 4 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 84814 | NM_032728,XM_00 | **PLPP7** | phospholipid phosphatas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84815 | NR_026880 | **MGC12916** | uncharacterized protein I | lncRNA | 4 | 4 | 5 | 5 | 0.973 |
| 84816 | NM_001318746,NM | **RTN4IP1** | reticulon 4 interacting pr | protein_coding | 9 | 10 | 10 | 11 | 1.087 |
| 84817 | NM_032731 | **TXNDC17** | thioredoxin domain conta | protein_coding | 36 | 44 | 37 | 45 | 1.219 |
| 84818 | NM_001203263,NM | **IL17RC** | interleukin 17 receptor C | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 84820 | NR_003655 | **POLR2J4** | RNA polymerase II subu | transcribed_pseu | 3 | 3 | 4 | 4 | 1.013 |
| 84823 | NM_032737 | **LMNB2** | lamin B2 | protein_coding | 226 | 218 | 227 | 219 | 0.967 |
| 84824 | NM_001184866,NM | **FCRLA** | Fc receptor like A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84826 | NM_032740 | **SFT2D3** | SFT2 domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 84830 | NM_001143948,NM | **ADTRP** | androgen dependent TF | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 84832 | NR_026844 | **ANKRD36BP1** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.990 |
| 84833 | NM_001206426,NM | **ATP5MD** | ATP synthase membrane | protein_coding | 282 | 298 | 283 | 299 | 1.057 |
| 84836 | NM_001146314,NM | **ABHD14B** | abhydrolase domain con | protein_coding | 35 | 36 | 36 | 37 | 1.033 |
| 84837 | NR_027263 | **ARHGAP5-AS1** | ARHGAP5 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84838 | NM_001329733,NM | **ZNF496** | zinc finger protein 496 | protein_coding | 22 | 21 | 23 | 22 | 0.966 |
| 84839 | NM_001319074,NM | **RAX2** | retina and anterior neura | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84842 | NM_032756 | **HPDL** | 4-hydroxyphenylpyruvate | protein_coding | 87 | 93 | 88 | 94 | 1.071 |
| 84844 | NM_032758 | **PHF5A** | PHD finger protein 5A | protein_coding | 183 | 190 | 184 | 191 | 1.039 |
| 84847 | NR_038407 | **LINC00525** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84848 | NR_024607 | **MIR503HG** | MIR503 host gene | lncRNA | 3 | 4 | 4 | 5 | 1.140 |
| 84850 | NR_026663 | **GLIS3-AS1** | GLIS3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84851 | NM_001346048,NM | **TRIM52** | tripartite motif containing | protein_coding | 10 | 9 | 11 | 10 | 0.867 |
| 84852 | NR_024124,NR_02 | **ATP1A1-AS1** | ATP1A1 antisense RNA : | lncRNA | 1 | 0 | 2 | 1 | 0.906 |
| 84856 | NR_026827 | **LINC00839** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84858 | NM_032772,NR_12 | **ZNF503** | zinc finger protein 503 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84859 | NM_001363887,NM | **LRCH3** | leucine rich repeats and | protein_coding | 15 | 13 | 16 | 14 | 0.861 |
| 84861 | NM_032775,NR_03 | **KLHL22** | kelch like family member | protein_coding | 1 | 2 | 2 | 3 | 1.147 |
| 84864 | NM_001042533,NM | **RIOX2** | ribosomal oxygenase 2 | protein_coding | 36 | 35 | 37 | 36 | 0.990 |
| 84865 | NM_001365575,NM | **CCDC142** | coiled-coil domain conta | protein_coding | 11 | 10 | 12 | 11 | 0.933 |
| 84866 | NM_001144034,NM | **TMEM25** | transmembrane protein 2 | protein_coding | 3 | 4 | 4 | 5 | 1.183 |
| 84867 | NM_001039970,NM | **PTPN5** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 84868 | NM_032782 | **HAVCR2** | hepatitis A virus cellular | protein_coding | 58 | 52 | 59 | 53 | 0.904 |
| 84869 | NM_032783,XM_00 | **CBR4** | carbonyl reductase 4 | protein_coding | 12 | 12 | 13 | 13 | 0.976 |
| 84870 | NM_032784,XM_01 | **RSPO3** | R-spondin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84871 | NM_001323573,NM | **AGBL4** | ATP/GTP binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84872 | NM_001303124,NM | **ZC3H10** | zinc finger CCCH-type co | protein_coding | 2 | 2 | 3 | 3 | 1.022 |
| 84873 | NM_001308362,NM | **ADGRG7** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84874 | NM_001318005,NM | **ZNF514** | zinc finger protein 514 | protein_coding | 1 | 1 | 2 | 2 | 0.994 |
| 84875 | NM_001317895,NM | **PARP10** | poly(ADP-ribose) polyme | protein_coding | 11 | 10 | 12 | 11 | 0.964 |
| 84876 | NM_032790 | **ORAI1** | ORAI calcium release-ac | protein_coding | 16 | 20 | 17 | 21 | 1.246 |
| 84878 | NM_001316978,NM | **ZBTB45** | zinc finger and BTB dom | protein_coding | 9 | 8 | 10 | 9 | 0.975 |
| 84879 | NM_001136493,NM | **MFSD2A** | major facilitator superfan | protein_coding | 20 | 21 | 21 | 22 | 1.007 |
| 84881 | NM_001144827,NM | **RPUSD4** | RNA pseudouridine synth | protein_coding | 43 | 42 | 44 | 43 | 0.957 |
| 84883 | NM_001198696,NM | **AIFM2** | apoptosis inducing factor | protein_coding | 24 | 23 | 25 | 24 | 0.955 |
| 84885 | NM_001318015,NM | **ZDHHC12** | zinc finger DHHC-type pa | protein_coding | 50 | 54 | 51 | 55 | 1.069 |
| 84886 | NM_001136494,NM | **C1orf198** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.823 |
| 84888 | NM_032802,XM_00 | **SPPL2A** | signal peptide peptidase | protein_coding | 48 | 41 | 49 | 42 | 0.869 |
| 84889 | NM_001048164,NM | **SLC7A3** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84890 | NM_032804 | **ADO** | 2-aminoethanethiol dioxy | protein_coding | 36 | 33 | 37 | 34 | 0.925 |
| 84891 | NM_001282415,NM | **ZSCAN10** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84892 | NM_032806,XM_00 | **POMGNT2** | protein O-linked mannos | protein_coding | 16 | 17 | 17 | 18 | 1.040 |
| 84893 | NM_001258452,NM | **FBH1** | F-box DNA helicase 1 | protein_coding | 29 | 29 | 30 | 30 | 0.984 |
| 84894 | NM_001301186,NM | **LINGO1** | leucine rich repeat and Ig | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 84895 | NM_001329990,NM | **MIGA2** | mitoguardin 2 | protein_coding | 13 | 15 | 14 | 16 | 1.130 |
| 84896 | NM_001321967,NM | **ATAD1** | ATPase family AAA dom | protein_coding | 60 | 54 | 61 | 55 | 0.902 |
| 84897 | NM_032811,NR_01 | **TBRG1** | transforming growth fact | protein_coding | 31 | 29 | 32 | 30 | 0.937 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 84898 | NM_001282736,NM | **PLXDC2** | plexin domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84899 | NM_001079669,NM | **TMTC4** | transmembrane O-mann | protein_coding | 11 | 10 | 12 | 11 | 0.920 |
| 84900 | NM_001109903,NM | **RNFT2** | ring finger protein, transı | protein_coding | 2 | 2 | 3 | 3 | 0.981 |
| 84901 | NM_032815,XR_95( | **NFATC2IP** | nuclear factor of activate | protein_coding | 53 | 54 | 54 | 55 | 1.020 |
| 84902 | NM_032816,XM_00! | **CEP89** | centrosomal protein 89 | protein_coding | 6 | 6 | 7 | 7 | 1.000 |
| 84904 | NM_032818,XM_01: | **ARHGEF39** | Rho guanine nucleotide | protein_coding | 16 | 15 | 17 | 16 | 0.920 |
| 84905 | NM_001282933,NM | **ZNF341** | zinc finger protein 341 | protein_coding | 2 | 2 | 3 | 3 | 0.979 |
| 84908 | NM_001329752,NM | **FAM136A** | family with sequence sim | protein_coding | 285 | 277 | 286 | 278 | 0.972 |
| 84909 | NM_001193329,NM | **AOPEP** | aminopeptidase O (putat | protein_coding | 1 | 2 | 2 | 3 | 1.223 |
| 84910 | NM_001329914,NM | **TMEM87B** | transmembrane protein 8 | protein_coding | 17 | 18 | 18 | 19 | 1.042 |
| 84911 | NM_001256838,NM | **ZNF382** | zinc finger protein 382 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84912 | NM_032826,XM_01: | **SLC35B4** | solute carrier family 35 n | protein_coding | 31 | 27 | 32 | 28 | 0.870 |
| 84913 | NM_032827,XM_00( | **ATOH8** | atonal bHLH transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84914 | NM_001204817,NM | **ZNF587** | zinc finger protein 587 | protein_coding | 26 | 21 | 27 | 22 | 0.843 |
| 84915 | NM_032829,XM_00( | **FAM222A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 84916 | NM_001318391,NM | **UTP4** | UTP4 small subunit proc | protein_coding | 109 | 105 | 110 | 106 | 0.966 |
| 84918 | NM_032832,XM_01: | **LRP11** | LDL receptor related pro | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 84919 | NM_032833,XM_00! | **PPP1R15B** | protein phosphatase 1 re | protein_coding | 56 | 43 | 57 | 44 | 0.769 |
| 84920 | NM_032834,XM_02 | **ALG10** | ALG10 alpha-1,2-glucosy | protein_coding | 13 | 11 | 14 | 12 | 0.823 |
| 84922 | NM_032836,XM_00! | **FIZ1** | FLT3 interacting zinc fing | protein_coding | 10 | 11 | 11 | 12 | 1.098 |
| 84923 | NM_001098832,NM | **FAM104A** | family with sequence sim | protein_coding | 80 | 72 | 81 | 73 | 0.909 |
| 84924 | NM_001145343,NM | **ZNF566** | zinc finger protein 566 | protein_coding | 3 | 2 | 4 | 3 | 0.906 |
| 84925 | NM_032839,XR_00: | **SLC49A4** | solute carrier family 49 n | protein_coding | 1 | 0 | 2 | 1 | 0.734 |
| 84926 | NM_032840 | **SPRYD3** | SPRY domain containing | protein_coding | 15 | 17 | 16 | 18 | 1.134 |
| 84928 | NM_001301163,NM | **TMEM209** | transmembrane protein 2 | protein_coding | 55 | 51 | 56 | 52 | 0.921 |
| 84929 | NM_001145106,NM | **FIBCD1** | fibrinogen C domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84930 | NM_001172303,NM | **MASTL** | microtubule associated s | protein_coding | 11 | 11 | 12 | 12 | 0.947 |
| 84931 | NR_027181 | **LINC01101** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84932 | NM_001163380,NM | **RAB2B** | RAB2B, member RAS or | protein_coding | 21 | 21 | 22 | 22 | 0.988 |
| 84933 | NM_032847 | **C8orf76** | chromosome 8 open rea | protein_coding | 48 | 50 | 49 | 51 | 1.046 |
| 84934 | NM_001286215,NM | **RITA1** | RBPJ interacting and tut | protein_coding | 47 | 47 | 48 | 48 | 0.997 |
| 84935 | NM_032849,XM_01 | **MEDAG** | mesenteric estrogen dep | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 84936 | NM_001077268,NM | **ZFYVE19** | zinc finger FYVE-type co | protein_coding | 36 | 39 | 37 | 40 | 1.099 |
| 84937 | NM_032268,XM_01: | **ZNRF1** | zinc and ring finger 1 | protein_coding | 14 | 11 | 15 | 12 | 0.776 |
| 84938 | NM_032852,NM_17 | **ATG4C** | autophagy related 4C cy | protein_coding | 13 | 10 | 14 | 11 | 0.801 |
| 84939 | NM_001369789,NM | **PWWP3A** | PWWP domain containir | protein_coding | 25 | 26 | 26 | 27 | 1.029 |
| 84940 | NM_001351301,NM | **CORO6** | coronin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 84941 | NM_001352265,NM | **HSH2D** | hematopoietic SH2 doma | protein_coding | 170 | 175 | 171 | 176 | 1.033 |
| 84942 | NM_032856,NR_13( | **WDR73** | WD repeat domain 73 | protein_coding | 23 | 19 | 24 | 20 | 0.836 |
| 84944 | NM_001286377,NM | **MAEL** | maelstrom spermatogeni | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84945 | NM_032859,XM_01: | **ABHD13** | abhydrolase domain con | protein_coding | 21 | 17 | 22 | 18 | 0.804 |
| 84946 | NM_001329953,NM | **LTV1** | LTV1 ribosome biogenes | protein_coding | 110 | 100 | 111 | 101 | 0.908 |
| 84947 | NM_032861,NR_07 | **SERAC1** | serine active site contain | protein_coding | 3 | 3 | 4 | 4 | 0.930 |
| 84948 | NM_032862 | **TIGD5** | tigger transposable elem | protein_coding | 1 | 2 | 2 | 3 | 1.197 |
| 84950 | NM_032864,XM_01: | **PRPF38A** | pre-mRNA processing fa | protein_coding | 97 | 94 | 98 | 95 | 0.970 |
| 84951 | NM_032865,XM_00! | **TNS4** | tensin 4 | protein_coding | 2 | 3 | 3 | 4 | 1.148 |
| 84952 | NM_001252335,NM | **CGNL1** | cingulin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84953 | NM_032867 | **MICALCL** | MICAL C-terminal like | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 84954 | NM_001159846,NM | **MPND** | MPN domain containing | protein_coding | 10 | 12 | 11 | 13 | 1.159 |
| 84955 | NM_001128211,NM | **NUDCD1** | NudC domain containing | protein_coding | 34 | 29 | 35 | 30 | 0.856 |
| 84957 | NM_032871,NM_15 | **RELT** | RELT TNF receptor | protein_coding | 25 | 26 | 26 | 27 | 1.019 |
| 84958 | NM_001193308,NM | **SYTL1** | synaptotagmin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84959 | NM_001363365,NM | **UBASH3B** | ubiquitin associated and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84960 | NM_001039374 | **CCDC183** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.263 |
| 84961 | NM_001184906,NM | **FBXL20** | F-box and leucine rich re | protein_coding | 2 | 2 | 3 | 3 | 0.911 |
| 84962 | NM_001289097,NM | **AJUBA** | ajuba LIM protein | protein_coding | 2 | 2 | 3 | 3 | 1.088 |
| 84964 | NM_001297701,NM | **ALKBH6** | alkB homolog 6 | protein_coding | 30 | 33 | 31 | 34 | 1.072 |
| 84966 | NM_032880,XM_01: | **IGSF21** | immunoglobin superfami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84967 | NM_032881 | **LSM10** | LSM10, U7 small nuclea | protein_coding | 157 | 159 | 158 | 160 | 1.014 |
| 84968 | NM_032882 | **PNMA6A** | PNMA family member 6A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84969 | NM_001098796,NM | **TOX2** | TOX high mobility group | protein_coding | 165 | 148 | 166 | 149 | 0.901 |
| 84970 | NM_001134734,NM | **C1orf94** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84971 | NM_001281504,NM | **ATG4D** | autophagy related 4D cy | protein_coding | 23 | 23 | 24 | 24 | 1.009 |
| 84973 | NR_003672,NR_02 | **SNHG7** | small nucleolar RNA hos | lncRNA | 122 | 126 | 123 | 127 | 1.031 |
| 84975 | NM_001170790,NM | **MFSD5** | major facilitator superfan | protein_coding | 37 | 34 | 38 | 35 | 0.912 |
| 84976 | NM_001350630,NM | **DISP1** | dispatched RND transpo | protein_coding | 10 | 8 | 11 | 9 | 0.836 |
| 84978 | NM_001286490,NM | **FRMD5** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84981 | NR_028502,NR_02 | **MIR22HG** | MIR22 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.300 |
| 84983 | NR_026661,NR_02 | **FAM222A-AS1** | FAM222A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 84984 | NM_001379468,NM | **CEP19** | centrosomal protein 19 | protein_coding | 12 | 11 | 13 | 12 | 0.915 |
| 84985 | NM_001288587,NM | **FAM83A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 84986 | NM_001204300,NM | **ARHGAP19** | Rho GTPase activating p | protein_coding | 49 | 40 | 50 | 41 | 0.835 |
| 84987 | NM_001257133,NM | **COX14** | cytochrome c oxidase as | protein_coding | 69 | 71 | 70 | 72 | 1.031 |
| 84988 | NM_001329442,NM | **PPP1R16A** | protein phosphatase 1 re | protein_coding | 6 | 7 | 7 | 8 | 1.139 |
| 84989 | NR_027182 | **JMJD1C-AS1** | JMJD1C antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.869 |
| 84991 | NM_001145547,NM | **RBM17** | RNA binding motif protei | protein_coding | 124 | 121 | 125 | 122 | 0.972 |
| 84992 | NM_001042616 | **PIGY** | phosphatidylinositol glyc | protein_coding | 7 | 3 | 8 | 4 | 0.563 |
| 84993 | NM_001286739,NM | **UBL7** | ubiquitin like 7 | protein_coding | 58 | 65 | 59 | 66 | 1.122 |
| 84996 | NR_026845 | **URB1-AS1** | URB1 antisense RNA 1 ( | lncRNA | 7 | 9 | 8 | 10 | 1.190 |
| 85001 | NR_026914 | **MGC16275** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 85002 | NM_001083537,NR | **FAM86B1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 85003 | NR_135276,NR_13 | **BFSP2-AS1** | BFSP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 85004 | NM_001190726,NM | **RERG** | RAS like estrogen regula | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 85007 | NM_001278346,NM | **PHYKPL** | 5-phosphohydroxy-L-lysi | protein_coding | 19 | 17 | 20 | 18 | 0.903 |
| 85009 | NR_026664 | **MGC16025** | uncharacterized LOC850 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 85012 | NM_001006933,NM | **TCEAL3** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85013 | NM_001297551,NM | **TMEM128** | transmembrane protein 1 | protein_coding | 52 | 53 | 53 | 54 | 1.011 |
| 85014 | NM_032928 | **TMEM141** | transmembrane protein 1 | protein_coding | 48 | 48 | 49 | 49 | 1.007 |
| 85015 | NM_001080481,NM | **USP45** | ubiquitin specific peptida | protein_coding | 8 | 8 | 9 | 9 | 0.988 |
| 85016 | NM_001195005,NM | **CFAP300** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85019 | NM_001318834,NM | **TMEM241** | transmembrane protein 2 | protein_coding | 16 | 15 | 17 | 16 | 0.939 |
| 85021 | NM_001128617,NM | **REPS1** | RALBP1 associated Eps | protein_coding | 22 | 22 | 23 | 23 | 0.997 |
| 85025 | NM_032936 | **TMEM60** | transmembrane protein 6 | protein_coding | 30 | 26 | 31 | 27 | 0.868 |
| 85026 | NR_122035,NR_12 | **ARRDC1-AS1** | ARRDC1 antisense RNA | lncRNA | 34 | 31 | 35 | 32 | 0.900 |
| 85027 | NM_032947 | **SMIM3** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.111 |
| 85028 | NR_024127,NR_14( | **SNHG12** | small nucleolar RNA hos | lncRNA | 64 | 61 | 65 | 62 | 0.956 |
| 85235 | NM_080596 | **H2AC12** | H2A clustered histone 12 | protein_coding | 2 | 3 | 3 | 4 | 1.159 |
| 85236 | NM_001312653,NM | **H2BC12** | H2B clustered histone 12 | protein_coding | 95 | 108 | 96 | 109 | 1.133 |
| 85280 | NM_033191 | **KRTAP9-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85285 | NM_033060 | **KRTAP4-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85289 | NM_033188 | **KRTAP4-5** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85290 | NM_033187 | **KRTAP4-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85291 | NM_033062 | **KRTAP4-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85293 | NM_033185 | **KRTAP3-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85294 | NM_033184 | **KRTAP2-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85300 | NM_033064 | **ATCAY** | ATCAY kinesin light chai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85301 | NM_032888,XM_00( | **COL27A1** | collagen type XXVII alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85302 | NM_001319193 | **FBF1** | Fas binding factor 1 | protein_coding | 3 | 4 | 4 | 5 | 1.286 |
| 85313 | NM_139126 | **PPIL4** | peptidylprolyl isomerase | protein_coding | 27 | 24 | 28 | 25 | 0.913 |
| 85315 | NM_133367 | **PAQR8** | progestin and adipoQ re | protein_coding | 5 | 6 | 6 | 7 | 1.123 |
| 85319 | NM_182482 | **BAGE2** | BAGE family member 2 | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 85320 | NM_001370496,NM | **ABCC11** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 85329 | NM_001142535,NM | **LGALS12** | galectin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85344 | gene-KRT89P | **KRT89P** | keratin 89 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.060 |
| 85347 | gene-KRTAP9-11P | **KRTAP9-11P** | keratin associated protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 85349 | NR_146088 | **KRT87P** | keratin 87 pseudogene | transcribed_pseu | 4 | 4 | 5 | 5 | 0.940 |
| 85352 | NM_001099294,XM | **SHISAL1** | shisa like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85354 | gene-KRTAP4-16 | **KRTAP4-16** | keratin associated protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 85358 | NM_001372044 | **SHANK3** | SH3 and multiple ankyrir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85359 | NM_033257 | **DGCR6L** | DiGeorge syndrome critic | protein_coding | 49 | 52 | 50 | 53 | 1.051 |
| 85360 | NM_001300910,NM | **SYDE1** | synapse defective Rho G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85363 | NM_033034,NM_03 | **TRIM5** | tripartite motif containing | protein_coding | 14 | 12 | 15 | 13 | 0.885 |
| 85364 | NM_033089 | **ZCCHC3** | zinc finger CCHC-type co | protein_coding | 63 | 60 | 64 | 61 | 0.959 |
| 85365 | NM_033087,NR_02 | **ALG2** | ALG2 alpha-1,3/1,6-man | protein_coding | 19 | 18 | 20 | 19 | 0.969 |
| 85366 | NM_033118 | **MYLK2** | myosin light chain kinase | protein_coding | 2 | 3 | 3 | 4 | 1.116 |
| 85369 | NM_001270768,NM | **STRIP1** | striatin interacting protei | protein_coding | 27 | 26 | 28 | 27 | 0.966 |

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|---|---|---|---|---|---|---|---|---|---|
| 85371 | NR_046312 | **KIAA1656** | KIAA1656 protein | lncRNA | 0 | 0 | 1 | 1 | 0.918 |
| 85376 | NM_015672 | **RIMBP3** | RIMS binding protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.094 |
| 85377 | NM_033386,XM_005 | **MICALL1** | MICAL like 1 | protein_coding | 4 | 4 | 5 | 5 | 1.095 |
| 85378 | NM_020461,XR_001 | **TUBGCP6** | tubulin gamma complex | protein_coding | 8 | 8 | 9 | 9 | 1.018 |
| 85379 | NM_001145206,XM | **KIAA1671** | KIAA1671 | protein_coding | 8 | 9 | 9 | 10 | 1.036 |
| 85388 | NR_001452 | **SNORD14B** | small nucleolar RNA, C/I | snoRNA | 8 | 9 | 9 | 10 | 1.114 |
| 85389 | NR_001453 | **SNORD14C** | small nucleolar RNA, C/I | snoRNA | 28 | 26 | 29 | 27 | 0.948 |
| 85390 | NR_001454 | **SNORD14D** | small nucleolar RNA, C/I | snoRNA | 22 | 27 | 23 | 28 | 1.250 |
| 85391 | NR_003125 | **SNORD14E** | small nucleolar RNA, C/I | snoRNA | 11 | 16 | 12 | 17 | 1.373 |
| 85395 | NM_001316983,NM | **FAM207A** | family with sequence sim | protein_coding | 116 | 124 | 117 | 125 | 1.068 |
| 85397 | NM_001102450,NM | **RGS8** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85403 | NM_033083,XM_005 | **EAF1** | ELL associated factor 1 | protein_coding | 81 | 79 | 82 | 80 | 0.976 |
| 85406 | NM_032364 | **DNAJC14** | DnaJ heat shock protein | protein_coding | 40 | 38 | 41 | 39 | 0.948 |
| 85407 | NM_033119,XM_01 | **NKD1** | NKD inhibitor of WNT sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85409 | NM_001271082,NM | **NKD2** | NKD inhibitor of WNT sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85413 | NM_033125,XM_005 | **SLC22A16** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85414 | NM_033102 | **SLC45A3** | solute carrier family 45 m | protein_coding | 0 | 0 | 1 | 1 | 1.171 |
| 85415 | NM_033103 | **RHPN2** | rhophilin Rho GTPase bi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85416 | NM_033132,NR_14 | **ZIC5** | Zic family member 5 | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 85417 | NM_033031,NM_03 | **CCNB3** | cyclin B3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85437 | NM_033114,XM_01 | **ZCRB1** | zinc finger CCHC-type a | protein_coding | 50 | 54 | 51 | 55 | 1.068 |
| 85438 | NM_033122 | **CABS1** | calcium binding protein, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85439 | NM_001256430,NM | **STON2** | stonin 2 | protein_coding | 5 | 4 | 6 | 5 | 0.894 |
| 85440 | NM_001271999,NM | **DOCK7** | dedicator of cytokinesis 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85441 | NM_001037335,NM | **HELZ2** | helicase with zinc finger | protein_coding | 32 | 25 | 33 | 26 | 0.768 |
| 85442 | NM_001347864,NM | **KNDC1** | kinase non-catalytic C-lo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85443 | NM_033403,XM_01 | **DCLK3** | doublecortin like kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85444 | NM_001349636,NM | **LRRCC1** | leucine rich repeat and c | protein_coding | 34 | 32 | 35 | 33 | 0.934 |
| 85445 | NM_001322178,NM | **CNTNAP4** | contactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85446 | NM_033400,XM_005 | **ZFHX2** | zinc finger homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 0.924 |
| 85449 | NM_001029864,NM | **KIAA1755** | KIAA1755 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85450 | NM_001272012,NM | **ITPRIP** | inositol 1,4,5-trisphospha | protein_coding | 18 | 17 | 19 | 18 | 0.942 |
| 85451 | NM_001080419,NR | **UNK** | unk zinc finger | protein_coding | 23 | 18 | 24 | 19 | 0.797 |
| 85452 | NM_001304360,XM | **CFAP74** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85453 | NM_033512 | **TSPYL5** | TSPY like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85455 | NM_033510,XM_01 | **DISP2** | dispatched RND transpo | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 85456 | NM_033396,XM_00 | **TNKS1BP1** | tankyrase 1 binding prot | protein_coding | 1 | 1 | 2 | 2 | 1.129 |
| 85457 | NM_033426 | **CIPC** | CLOCK interacting pace | protein_coding | 16 | 14 | 17 | 15 | 0.918 |
| 85458 | NM_001037954,NM | **DIXDC1** | DIX domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 85459 | NM_033395,XM_005 | **CEP295** | centrosomal protein 295 | protein_coding | 5 | 5 | 6 | 6 | 0.855 |
| 85460 | NM_001375816,NM | **ZNF518B** | zinc finger protein 518B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85461 | NM_001145909,NM | **TANC1** | tetratricopeptide repeat, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85462 | NM_001371116,NM | **FHDC1** | FH2 domain containing 1 | protein_coding | 1 | 1 | 2 | 2 | 0.870 |
| 85463 | NM_033390,XM_005 | **ZC3H12C** | zinc finger CCCH-type c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85464 | NM_001282129,NM | **SSH2** | slingshot protein phosph | protein_coding | 38 | 31 | 39 | 32 | 0.822 |
| 85465 | NM_033505,NR_13 | **SELENOI** | selenoprotein I | protein_coding | 45 | 38 | 46 | 39 | 0.850 |
| 85474 | NM_001009812,NM | **LBX2** | ladybird homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85476 | NM_001308164,NM | **GFM1** | G elongation factor mitoc | protein_coding | 54 | 48 | 55 | 49 | 0.896 |
| 85477 | NM_001112706,NM | **SCIN** | scinderin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85478 | NM_001286957,NM | **CCDC65** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 0.886 |
| 85479 | NM_001349432,NM | **DNAJC5B** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.153 |
| 85480 | NM_033035,NM_13 | **TSLP** | thymic stromal lymphopo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85481 | NM_033126,XM_01 | **PSKH2** | protein serine kinase H2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85486 | gene-RPS19P1 | **RPS19P1** | ribosomal protein S19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 85487 | gene-RPS19P2 | **RPS19P2** | ribosomal protein S19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 85495 | NR_002312 | **RPPH1** | ribonuclease P RNA com | RNase_P_RNA | 0 | 2 | 1 | 3 | 1.830 |
| 85508 | NM_033129 | **SCRT2** | scratch family transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85509 | NM_145208 | **MBD3L1** | methyl-CpG binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85569 | NM_001145546,NM | **GALP** | galanin like peptide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 85824 | gene-RPL12P12 | **RPL12P12** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 85865 | NM_001042717,NM | **GTPBP10** | GTP binding protein 10 | protein_coding | 26 | 24 | 27 | 25 | 0.914 |
| 86123 | gene-YWHAZP5 | **YWHAZP5** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 86614 | NM_033108,NM_15 | **HSFY1** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 86781 | gene-RPS2P7 | **RPS2P7** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.387 |
| 87171 | gene-ARPC3P1 | **ARPC3P1** | actin related protein 2/3 | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 87178 | NM_033109,XM_005 | **PNPT1** | polyribonucleotide nucle | protein_coding | 62 | 49 | 63 | 50 | 0.794 |
| 87688 | gene-RPL7AP50 | **RPL7AP50** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 0.914 |
| 87769 | NM_001195087,NM | **GGACT** | gamma-glutamylamine c | protein_coding | 1 | 1 | 2 | 2 | 1.283 |
| 88455 | NM_033121,XM_005 | **ANKRD13A** | ankyrin repeat domain 1 | protein_coding | 55 | 50 | 56 | 51 | 0.903 |
| 88745 | NM_001329704,NM | **RRP36** | ribosomal RNA processir | protein_coding | 133 | 139 | 134 | 140 | 1.045 |
| 89122 | NM_033017,NM_03 | **TRIM4** | tripartite motif containing | protein_coding | 19 | 18 | 20 | 19 | 0.935 |
| 89758 | NR_131786 | **LINC01621** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 89761 | gene-NUFIP1P1 | **NUFIP1P1** | NUFIP1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 89765 | NM_001286506,NM | **RSPH1** | radial spoke head compo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89766 | NM_001004416,NM | **UMODL1** | uromodulin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89777 | NM_001307928,NM | **SERPINB12** | serpin family B member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89778 | NM_001291278,NM | **SERPINB11** | serpin family B member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89780 | NM_033131,XM_01 | **WNT3A** | Wnt family member 3A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89781 | NM_001349896,NM | **HPS4** | HPS4 biogenesis of lysos | protein_coding | 20 | 18 | 21 | 19 | 0.890 |
| 89782 | NM_001136049,NM | **LMLN** | leishmanolysin like pepti | protein_coding | 1 | 1 | 2 | 2 | 0.918 |
| 89790 | NM_001171156,NM | **SIGLEC10** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89792 | NM_033036,XM_01 | **GAL3ST3** | galactose-3-O-sulfotrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89795 | NM_001024383,NM | **NAV3** | neuron navigator 3 | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 89796 | NM_001167738,NM | **NAV1** | neuron navigator 1 | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 89797 | NM_001111018,NM | **NAV2** | neuron navigator 2 | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 89801 | NM_001184745,NM | **PPP1R3F** | protein phosphatase 1 re | protein_coding | 2 | 3 | 3 | 4 | 1.085 |
| 89822 | NM_001135111,NM | **KCNK17** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89832 | NM_139320,NM_14 | **CHRFAM7A** | CHRNA7 (exons 5-10) ar | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 89837 | NR_026859 | **ULK4P3** | ULK4 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.033 |
| 89838 | NR_026858 | **ULK4P1** | ULK4 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.985 |
| 89839 | NM_001039841,NR | **ARHGAP11B** | Rho GTPase activating p | protein_coding | 34 | 29 | 35 | 30 | 0.851 |
| 89844 | gene-LOC89844 | **LOC89844** | RNA polymerase mitoch | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 89845 | NM_001198934,NM | **ABCC10** | ATP binding cassette sul | protein_coding | 9 | 9 | 10 | 10 | 1.031 |
| 89846 | NM_001083536,NM | **FGD3** | FYVE, RhoGEF and PH | protein_coding | 28 | 25 | 29 | 26 | 0.893 |
| 89848 | NM_033449,XM_005 | **FCHSD1** | FCH and double SH3 do | protein_coding | 5 | 6 | 6 | 7 | 1.126 |
| 89849 | NM_001318766,NM | **ATG16L2** | autophagy related 16 like | protein_coding | 13 | 15 | 14 | 16 | 1.200 |
| 89853 | NM_001011703,NM | **MVB12B** | multivesicular body subu | protein_coding | 5 | 4 | 6 | 5 | 0.824 |
| 89857 | NM_130446,XM_01 | **KLHL6** | kelch like family member | protein_coding | 16 | 9 | 17 | 10 | 0.614 |
| 89858 | NM_033329,NM_05 | **SIGLEC12** | sialic acid binding Ig like | protein_coding | 1 | 0 | 2 | 1 | 0.856 |
| 89866 | NM_001356499,NM | **SEC16B** | SEC16 homolog B, endo | protein_coding | 12 | 8 | 13 | 9 | 0.690 |
| 89869 | NM_001330769,NM | **PLCZ1** | phospholipase C zeta 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89870 | NM_033229,XM_01 | **TRIM15** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89872 | NM_080429,XM_01 | **AQP10** | aquaporin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89874 | NM_001171170,NM | **SLC25A21** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89876 | NM_001320316,NM | **CFAP91** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89882 | NM_001001874,NM | **TPD52L3** | TPD52 like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89883 | NR_002140 | **OR6W1P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 89884 | NM_033343,XM_01 | **LHX4** | LIM homeobox 4 | protein_coding | 9 | 6 | 10 | 7 | 0.671 |
| 89885 | NM_033085 | **FATE1** | fetal and adult testis exp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89886 | NM_001146172,NM | **SLAMF9** | SLAM family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89887 | NM_033113,XM_005 | **ZNF628** | zinc finger protein 628 | protein_coding | 7 | 8 | 8 | 9 | 1.109 |
| 89890 | NM_152903 | **KBTBD6** | kelch repeat and BTB do | protein_coding | 9 | 7 | 10 | 8 | 0.789 |
| 89891 | NM_052844,XM_01 | **DYNC2I2** | dynein 2 intermediate ch | protein_coding | 45 | 51 | 46 | 52 | 1.122 |
| 89894 | NM_001193453,NM | **TMEM116** | transmembrane protein 1 | protein_coding | 9 | 12 | 10 | 13 | 1.285 |
| 89910 | NM_001270449,NM | **UBE3B** | ubiquitin protein ligase E | protein_coding | 12 | 13 | 13 | 14 | 1.124 |
| 89927 | NM_001142469,NM | **BMERB1** | bMERB domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89932 | NM_001365906,NM | **PAPLN** | papilin, proteoglycan like | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 89941 | NM_001352275,NM | **RHOT2** | ras homolog family mem | protein_coding | 71 | 68 | 72 | 69 | 0.968 |
| 89944 | NM_001370460,NM | **GLB1L2** | galactosidase beta 1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 89953 | NM_001289034,NM | **KLC4** | kinesin light chain 4 | protein_coding | 7 | 8 | 8 | 9 | 1.147 |
| 89958 | NM_178448,XM_01 | **SAPCD2** | suppressor APC domain | protein_coding | 60 | 63 | 61 | 64 | 1.042 |
| 89970 | NM_001305163,NM | **RSPRY1** | ring finger and SPRY do | protein_coding | 37 | 36 | 38 | 37 | 0.965 |
| 89978 | NM_001141972,NM | **DPH6** | diphthamine biosynthesis | protein_coding | 16 | 15 | 17 | 16 | 0.930 |
| 90007 | NM_177401,XM_005 | **MIDN** | midnolin | protein_coding | 113 | 120 | 114 | 121 | 1.068 |
| 90011 | NR_026716,NR_10 | **KIR3DX1** | killer cell immunoglobulin | transcribed_pseu | 48 | 45 | 49 | 46 | 0.934 |
| 90019 | NM_001290332,NM | **SYT8** | synaptotagmin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 90024 | NR_033874 | **FLJ20021** | uncharacterized LOC900 | lncRNA | 3 | 3 | 4 | 4 | 1.009 |
| 90025 | NM_001304437,NM | **UBE3D** | ubiquitin protein ligase E | protein_coding | 13 | 11 | 14 | 12 | 0.862 |
| 90050 | NM_001207071,NM | **FAM181A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90060 | NM_001163321,NM | **CCDC120** | coiled-coil domain contai | protein_coding | 3 | 3 | 4 | 4 | 1.010 |
| 90070 | NM_033277 | **LACRT** | lacritin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90075 | NM_001099437,NM | **ZNF30** | zinc finger protein 30 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90102 | NM_001134437,NM | **PHLDB2** | pleckstrin homology like | protein_coding | 12 | 8 | 13 | 9 | 0.709 |
| 90113 | NM_001320373,NM | **VWA5B2** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90120 | NM_001256526,NM | **TMEM250** | transmembrane protein 2 | protein_coding | 23 | 24 | 24 | 25 | 1.057 |
| 90121 | NM_001346789,NM | **TSR2** | TSR2 ribosome maturati | protein_coding | 54 | 55 | 55 | 56 | 1.021 |
| 90133 | gene-KRT8P12 | **KRT8P12** | keratin 8 pseudogene 12 | pseudogene | 9 | 9 | 10 | 10 | 1.076 |
| 90134 | NM_033272,NM_17 | **KCNH7** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90135 | NM_033271,XM_00 | **BTBD6** | BTB domain containing 6 | protein_coding | 50 | 55 | 51 | 56 | 1.111 |
| 90139 | NM_130783,XM_00 | **TSPAN18** | tetraspanin 18 | protein_coding | 0 | 1 | 1 | 2 | 1.070 |
| 90141 | NM_001284266,NM | **EFCAB11** | EF-hand calcium binding | protein_coding | 7 | 7 | 8 | 8 | 0.960 |
| 90161 | NM_001077188,NM | **HS6ST2** | heparan sulfate 6-O-sulf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90167 | NM_001306193,NM | **FRMD7** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 90187 | NM_052846 | **EMILIN3** | elastin microfibril interfac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90193 | gene-RPL7P6 | **RPL7P6** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 90196 | NM_001099791,NM | **SYS1** | SYS1 golgi trafficking pr | protein_coding | 24 | 25 | 25 | 26 | 1.025 |
| 90199 | NM_130896,NM_18 | **WFDC8** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90203 | NM_001042632,NM | **SNX21** | sorting nexin family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90204 | NM_080603,XM_00 | **ZSWIM1** | zinc finger SWIM-type co | protein_coding | 6 | 6 | 7 | 7 | 0.930 |
| 90226 | NM_033199 | **UCN2** | urocortin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 90231 | NM_138346 | **KIAA2013** | KIAA2013 | protein_coding | 68 | 75 | 69 | 76 | 1.108 |
| 90233 | NM_001270938,NM | **ZNF551** | zinc finger protein 551 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90246 | NR_026954 | **LOC90246** | uncharacterized LOC902 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 90249 | NM_133369,XM_00 | **UNC5A** | unc-5 netrin receptor A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90268 | NM_138348,XM_01 | **OTULIN** | OTU deubiquitinase with | protein_coding | 26 | 22 | 27 | 23 | 0.865 |
| 90271 | NR_026762 | **OLMALINC** | oligodendrocyte maturati | lncRNA | 1 | 1 | 2 | 2 | 1.383 |
| 90273 | NM_001098506,NM | **CEACAM21** | CEA cell adhesion molec | protein_coding | 10 | 10 | 11 | 11 | 0.999 |
| 90288 | NM_207307,XM_01 | **EFCAB12** | EF-hand calcium binding | protein_coding | 2 | 1 | 3 | 2 | 0.759 |
| 90293 | NM_001168299,NM | **KLHL13** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 90313 | NM_001346077,NM | **TP53I13** | tumor protein p53 inducil | protein_coding | 3 | 4 | 4 | 5 | 1.193 |
| 90316 | NM_138960 | **TGIF2LX** | TGFB induced factor hor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90317 | NM_178523,NR_13 | **ZNF616** | zinc finger protein 616 | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 90321 | NM_001010851,XM | **ZNF766** | zinc finger protein 766 | protein_coding | 3 | 3 | 4 | 4 | 1.006 |
| 90324 | NM_001346100,NM | **CCDC97** | coiled-coil domain contai | protein_coding | 69 | 73 | 70 | 74 | 1.056 |
| 90326 | NM_001195752,NM | **THAP3** | THAP domain containing | protein_coding | 28 | 28 | 29 | 29 | 1.018 |
| 90332 | NM_001382422 | **EXOC3L2** | exocyst complex compor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90333 | NM_001008801,NM | **ZNF468** | zinc finger protein 468 | protein_coding | 5 | 5 | 6 | 6 | 0.961 |
| 90338 | NM_001102603,NM | **ZNF160** | zinc finger protein 160 | protein_coding | 1 | 1 | 2 | 2 | 1.030 |
| 90342 | NM_001293083,XM | **FER1L5** | fer-1 like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90352 | gene-MAGOH3P | **MAGOH3P** | mago homolog 3, pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 90353 | NM_145232 | **CTU1** | cytosolic thiouridylase su | protein_coding | 7 | 7 | 8 | 8 | 1.034 |
| 90355 | NM_001316968,NM | **MACIR** | macrophage immunomet | protein_coding | 19 | 17 | 20 | 18 | 0.894 |
| 90362 | NM_001377989,NM | **FAM110B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90378 | NM_138352 | **SAMD1** | sterile alpha motif domai | protein_coding | 26 | 29 | 27 | 30 | 1.104 |
| 90379 | NM_138353 | **DCAF15** | DDB1 and CUL4 associa | protein_coding | 79 | 83 | 80 | 84 | 1.047 |
| 90381 | NM_001308025,NM | **TICRR** | TOPBP1 interacting chec | protein_coding | 22 | 22 | 23 | 23 | 0.997 |
| 90390 | NM_001282986,NM | **MED30** | mediator complex subun | protein_coding | 67 | 63 | 68 | 64 | 0.938 |
| 90407 | NM_080652,XM_01 | **TMEM41A** | transmembrane protein 4 | protein_coding | 16 | 15 | 17 | 16 | 0.960 |
| 90410 | NM_001267774,NM | **IFT20** | intraflagellar transport 20 | protein_coding | 16 | 16 | 17 | 17 | 1.008 |
| 90411 | NM_001171506,NM | **MCFD2** | multiple coagulation fact | protein_coding | 54 | 48 | 55 | 49 | 0.889 |
| 90416 | NM_001080791,NM | **CCDC32** | coiled-coil domain contai | protein_coding | 35 | 32 | 36 | 33 | 0.940 |
| 90417 | NM_001142761,NM | **KNSTRN** | kinetochore localized ast | protein_coding | 99 | 95 | 100 | 96 | 0.964 |
| 90423 | NM_001318063,NM | **ATP6V1E2** | ATPase H+ transporting | protein_coding | 1 | 1 | 2 | 2 | 0.826 |
| 90427 | NM_001003940,NM | **BMF** | Bcl2 modifying factor | protein_coding | 64 | 53 | 65 | 54 | 0.832 |
| 90441 | NM_033414 | **ZNF622** | zinc finger protein 622 | protein_coding | 61 | 69 | 62 | 70 | 1.132 |
| 90459 | NM_001354635,NM | **ERI1** | exoribonuclease 1 | protein_coding | 25 | 22 | 26 | 23 | 0.889 |
| 90480 | NM_052850 | **GADD45GIP1** | GADD45G interacting pr | protein_coding | 86 | 90 | 87 | 91 | 1.041 |
| 90485 | NM_001005850,XM | **ZNF835** | zinc finger protein 835 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90488 | NM_001319661,NM | **TMEM263** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90499 | NR_038409 | **FAM95A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 90506 | NM_033413,XM_00 | **LRRC46** | leucine rich repeat conta | protein_coding | 1 | 1 | 2 | 2 | 1.084 |
| 90507 | NM_001145023,NM | **SCRN2** | secernin 2 | protein_coding | 7 | 6 | 8 | 7 | 0.872 |
| 90522 | NM_001039671,NM | **YIF1B** | Yip1 interacting factor ho | protein_coding | 39 | 38 | 40 | 39 | 0.976 |
| 90523 | NM_001281746,NM | **MLIP** | muscular LMNA interacti | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 90525 | NM_001301168,NM | **SHF** | Src homology 2 domain | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 90527 | NM_001276264,NM | **DUOXA1** | dual oxidase maturation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90529 | NM_001199012,NM | **STPG1** | sperm tail PG-rich repea | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 90550 | NM_001270679,NM | **MCU** | mitochondrial calcium un | protein_coding | 11 | 10 | 12 | 11 | 0.897 |
| 90557 | NM_001258304,NM | **CCDC74A** | coiled-coil domain contai | protein_coding | 32 | 35 | 33 | 36 | 1.104 |
| 90576 | NM_001080821,NM | **ZNF799** | zinc finger protein 799 | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 90580 | NM_138358 | **TIMM29** | translocase of inner mito | protein_coding | 32 | 29 | 33 | 30 | 0.901 |
| 90586 | NR_002773 | **AOC4P** | amine oxidase copper co | transcribed_pseu | 0 | 0 | 1 | 1 | 1.036 |
| 90589 | NM_145233,NR_03 | **ZNF625** | zinc finger protein 625 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90592 | NM_001271848,NM | **ZNF700** | zinc finger protein 700 | protein_coding | 16 | 16 | 17 | 17 | 1.008 |
| 90594 | NM_001348718,NM | **ZNF439** | zinc finger protein 439 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90624 | NM_001293735,NM | **LYRM7** | LYR motif containing 7 | protein_coding | 30 | 28 | 31 | 29 | 0.919 |
| 90625 | NM_001308491 | **ERVH48-1** | endogenous retrovirus g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90627 | NM_001243466,NM | **STARD13** | StAR related lipid transfe | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 90632 | NR_026860,NR_02 | **LINC00473** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 90634 | NM_001079691,NM | **N4BP2L1** | NEDD4 binding protein 2 | protein_coding | 10 | 9 | 11 | 10 | 0.962 |
| 90637 | NM_001365381,NM | **ZFAND2A** | zinc finger AN1-type con | protein_coding | 23 | 28 | 24 | 29 | 1.174 |
| 90639 | NM_001031617 | **COX19** | cytochrome c oxidase as | protein_coding | 11 | 9 | 12 | 10 | 0.812 |
| 90649 | NM_052852 | **ZNF486** | zinc finger protein 486 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90655 | NM_139214 | **TGIF2LY** | TGFB induced factor hor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90665 | NM_033284,NM_13 | **TBL1Y** | transducin beta like 1 Y-l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90668 | NM_138360 | **CARMIL3** | capping protein regulato | protein_coding | 1 | 1 | 2 | 2 | 0.838 |
| 90673 | NM_001276318 | **PPP1R3E** | protein phosphatase 1 re | protein_coding | 4 | 4 | 5 | 5 | 0.979 |
| 90678 | NM_001005373,NM | **LRSAM1** | leucine rich repeat and s | protein_coding | 6 | 6 | 7 | 7 | 1.008 |
| 90693 | NM_138771,XM_01 | **CCDC126** | coiled-coil domain contai | protein_coding | 4 | 3 | 5 | 4 | 0.888 |
| 90701 | NM_001307941,NM | **SEC11C** | SEC11 homolog C, signa | protein_coding | 139 | 132 | 140 | 133 | 0.946 |
| 90736 | NM_001166699,NM | **FAM104B** | family with sequence sim | protein_coding | 7 | 8 | 8 | 9 | 1.147 |
| 90737 | NM_001013435,NM | **PAGE5** | PAGE family member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90768 | NR_027107,NR_12 | **TENM3-AS1** | TENM3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 90780 | NM_138300 | **PYGO2** | pygopus family PHD fing | protein_coding | 43 | 39 | 44 | 40 | 0.915 |
| 90799 | NM_001316990,NM | **CEP95** | centrosomal protein 95 | protein_coding | 20 | 20 | 21 | 21 | 0.983 |
| 90806 | NM_001300753,NM | **ANGEL2** | angel homolog 2 | protein_coding | 20 | 18 | 21 | 19 | 0.938 |
| 90809 | NM_001100814,NM | **PIP4P1** | phosphatidylinositol-4,5- | protein_coding | 20 | 20 | 21 | 21 | 1.019 |
| 90826 | NM_001304458,NM | **PRMT9** | protein arginine methyltr | protein_coding | 11 | 11 | 12 | 12 | 0.946 |
| 90827 | NM_001370129,NM | **ZNF479** | zinc finger protein 479 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90835 | NM_001014979,NM | **CCDC189** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.164 |
| 90843 | NM_001006684,NM | **TCEAL8** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 90850 | NM_178167 | **ZNF598** | zinc finger protein 598, E | protein_coding | 64 | 68 | 65 | 69 | 1.053 |
| 90853 | NM_001281987,NM | **SPOCD1** | SPOC domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90859 | gene-NT5C3AP1 | **NT5C3AP1** | NT5C3A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.037 |
| 90861 | NM_144570 | **JPT2** | Jupiter microtubule asso | protein_coding | 92 | 93 | 93 | 94 | 1.007 |
| 90864 | NM_001324081,NM | **SPSB3** | splA/ryanodine receptor | protein_coding | 11 | 15 | 12 | 16 | 1.302 |
| 90865 | NM_001199640,NM | **IL33** | interleukin 33 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90871 | NM_001318058,NM | **DMAC1** | distal membrane arm as | protein_coding | 23 | 24 | 24 | 25 | 1.049 |
| 90874 | NM_001080470,XM | **ZNF697** | zinc finger protein 697 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 90933 | NM_033549,NM_20 | **TRIM41** | tripartite motif containing | protein_coding | 41 | 45 | 42 | 46 | 1.096 |
| 90952 | NM_138961 | **ESAM** | endothelial cell adhesion | protein_coding | 0 | 0 | 1 | 1 | 1.305 |
| 90956 | NM_052853,XM_00 | **ADCK2** | aarF domain containing k | protein_coding | 11 | 13 | 12 | 14 | 1.176 |
| 90957 | NM_001329963,NM | **DHX57** | DExH-box helicase 57 | protein_coding | 13 | 12 | 14 | 13 | 0.902 |
| 90987 | NM_138367,XM_00 | **ZNF251** | zinc finger protein 251 | protein_coding | 6 | 6 | 7 | 7 | 0.943 |
| 90990 | NM_001369769,NM | **KIFC2** | kinesin family member C | protein_coding | 0 | 0 | 1 | 1 | 0.972 |
| 90993 | NM_052854,XM_00 | **CREB3L1** | cAMP responsive elemer | protein_coding | 0 | 0 | 1 | 1 | 0.882 |
| 91010 | NM_001367835,NM | **FMNL3** | formin like 3 | protein_coding | 20 | 17 | 21 | 18 | 0.859 |
| 91012 | NM_001281731,NM | **CERS5** | ceramide synthase 5 | protein_coding | 16 | 17 | 17 | 18 | 1.075 |
| 91039 | NM_001365987,NM | **DPP9** | dipeptidyl peptidase 9 | protein_coding | 116 | 115 | 117 | 116 | 0.989 |
| 91050 | NM_001130726,NM | **CCDC149** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91056 | NM_138368 | **AP5B1** | adaptor related protein c | protein_coding | 2 | 2 | 3 | 3 | 0.853 |
| 91057 | NM_030771,NM_08 | **CCDC34** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 91074 | NM_052997,XM_01: | **ANKRD30A** | ankyrin repeat domain 3( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91107 | NM_033452,XM_00! | **TRIM47** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91120 | NM_001077349,NM | **ZNF682** | zinc finger protein 682 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91133 | NM_001330559,NM | **L3MBTL4** | L3MBTL histone methyl-l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91137 | NM_001303249,NM | **SLC25A46** | solute carrier family 25 m | protein_coding | 57 | 52 | 58 | 53 | 0.922 |
| 91147 | NM_001142301,NM | **TMEM67** | transmembrane protein 6 | protein_coding | 1 | 2 | 2 | 3 | 1.106 |
| 91149 | NR_026995 | **RAPGEF4-AS1** | RAPGEF4 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 91151 | NM_033208 | **TIGD7** | tigger transposable elem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91156 | NM_001164586,NM | **IGFN1** | immunoglobulin like and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91179 | NM_153334,NM_18: | **SCARF2** | scavenger receptor class | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91181 | NM_001159484,NM | **NUP210L** | nucleoporin 210 like | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 91227 | NM_001282879,NM | **GGTLC2** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.263 |
| 91252 | NM_001128225,NM | **SLC39A13** | solute carrier family 39 m | protein_coding | 8 | 8 | 9 | 9 | 1.033 |
| 91272 | NM_001159651,NM | **BOD1** | biorientation of chromos | protein_coding | 23 | 21 | 24 | 22 | 0.953 |
| 91283 | NM_001198805,NM | **MSANTD3** | Myb/SANT DNA binding | protein_coding | 9 | 9 | 10 | 10 | 1.057 |
| 91289 | NM_001363816,NM | **LMF2** | lipase maturation factor 2 | protein_coding | 31 | 28 | 32 | 29 | 0.918 |
| 91298 | NM_001009894 | **C12orf29** | chromosome 12 open rea | protein_coding | 35 | 31 | 36 | 32 | 0.879 |
| 91300 | NM_138774,XM_01: | **R3HDM4** | R3H domain containing 4 | protein_coding | 63 | 64 | 64 | 65 | 1.029 |
| 91304 | NM_001033026,NM | **TMEM259** | transmembrane protein 2 | protein_coding | 117 | 122 | 118 | 123 | 1.047 |
| 91316 | NR_024448 | **GUSBP11** | GUSB pseudogene 11 | transcribed_pseu | 4 | 4 | 5 | 5 | 1.005 |
| 91319 | NM_001002862,NM | **DERL3** | derlin 3 | protein_coding | 2 | 3 | 3 | 4 | 1.311 |
| 91351 | NM_001012967,NM | **DDX60L** | DExD/H-box 60 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91353 | NR_029395 | **IGLL3P** | immunoglobulin lambda | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 91355 | NM_001135772,NM | **LRP5L** | LDL receptor related pro | protein_coding | 2 | 2 | 3 | 3 | 1.136 |
| 91368 | NM_080656,XM_01: | **CDKN2AIPNL** | CDKN2A interacting prot | protein_coding | 85 | 80 | 86 | 81 | 0.933 |
| 91369 | NM_052855,XM_01' | **ANKRD40** | ankyrin repeat domain 4( | protein_coding | 43 | 40 | 44 | 41 | 0.929 |
| 91370 | NR_148946 | **LOC91370** | uncharacterized LOC913 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 91373 | NM_207309,XM_00( | **UAP1L1** | UDP-N-acetylglucosamir | protein_coding | 9 | 9 | 10 | 10 | 1.026 |
| 91380 | NR_001293 | **SNORD107** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.984 |
| 91392 | NM_001134440,NM | **ZNF502** | zinc finger protein 502 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91404 | NM_178123,XM_01: | **SESTD1** | SEC14 and spectrin dom | protein_coding | 2 | 2 | 3 | 3 | 0.925 |
| 91405 | gene-PLEKHA3P1 | **PLEKHA3P1** | pleckstrin homology dom | pseudogene | 0 | 0 | 1 | 1 | 0.887 |
| 91408 | NM_001136497,NM | **BTF3L4** | basic transcription factor | protein_coding | 26 | 23 | 27 | 24 | 0.883 |
| 91409 | NM_001258307,NM | **CCDC74B** | coiled-coil domain contai | protein_coding | 12 | 12 | 13 | 13 | 0.980 |
| 91419 | NM_001320408,NM | **ATP23** | ATP23 metallopeptidase | protein_coding | 20 | 22 | 21 | 23 | 1.104 |
| 91433 | NM_001017919,NM | **RCCD1** | RCC1 domain containing | protein_coding | 29 | 33 | 30 | 34 | 1.107 |
| 91442 | NM_001300978,NM | **FAAP24** | FA core complex associa | protein_coding | 21 | 22 | 22 | 23 | 1.009 |
| 91445 | NM_001135825,NM | **RNF185** | ring finger protein 185 | protein_coding | 27 | 23 | 28 | 24 | 0.840 |
| 91450 | NR_026998 | **LOC91450** | uncharacterized LOC914 | lncRNA | 2 | 2 | 3 | 3 | 1.178 |
| 91452 | NM_001042473,NM | **ACBD5** | acyl-CoA binding domair | protein_coding | 18 | 17 | 19 | 18 | 0.951 |
| 91461 | NM_138370 | **PKDCC** | protein kinase domain cc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91464 | NM_001303508 | **ISX** | intestine specific homeot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91522 | NM_173465,XM_00( | **COL23A1** | collagen type XXIII alpha | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 91523 | NM_001281429,NM | **PCED1B** | PC-esterase domain con | protein_coding | 1 | 1 | 2 | 2 | 0.965 |
| 91526 | NM_001195144,NM | **ANKRD44** | ankyrin repeat domain 4 | protein_coding | 79 | 69 | 80 | 70 | 0.869 |
| 91543 | NM_080657,XM_01: | **RSAD2** | radical S-adenosyl methi | protein_coding | 82 | 75 | 83 | 76 | 0.915 |
| 91544 | NM_001077262,NM | **UBXN11** | UBX domain protein 11 | protein_coding | 13 | 14 | 14 | 15 | 1.111 |
| 91548 | NR_148994 | **LOC91548** | uncharacterized LOC915 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 91561 | gene-RPS2P40 | **RPS2P40** | ribosomal protein S2 pse | pseudogene | 0 | 1 | 1 | 2 | 1.378 |
| 91574 | NM_001143905,NM | **C12orf65** | chromosome 12 open rea | protein_coding | 46 | 41 | 47 | 42 | 0.899 |
| 91582 | NM_194326,NR_13( | **RPS19BP1** | ribosomal protein S19 bi | protein_coding | 205 | 227 | 206 | 228 | 1.107 |
| 91584 | NM_001105543,NM | **PLXNA4** | plexin A4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91603 | NM_052857 | **ZNF830** | zinc finger protein 830 | protein_coding | 31 | 32 | 32 | 33 | 1.041 |
| 91607 | NM_001104587,NM | **SLFN11** | schlafen family member | protein_coding | 76 | 74 | 77 | 75 | 0.968 |
| 91608 | NM_033315,XM_01' | **RASL10B** | RAS like family 10 memb | protein_coding | 0 | 0 | 1 | 1 | 1.121 |
| 91612 | NM_001204063,NM | **CHURC1** | churchill domain contain | protein_coding | 24 | 24 | 25 | 25 | 1.010 |
| 91614 | NM_001077242,NM | **DEPDC7** | DEP domain containing ' | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91624 | NM_001172309,NM | **NEXN** | nexilin F-actin binding pr | protein_coding | 8 | 6 | 9 | 7 | 0.779 |
| 91646 | NM_001110822,NM | **TDRD12** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 91647 | NM_145691,XM_00! | **ATPAF2** | ATP synthase mitochonc | protein_coding | 9 | 8 | 10 | 9 | 0.936 |
| 91653 | NM_001301861,NM | **BOC** | BOC cell adhesion assoc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91661 | NM_001040185,NM | **ZNF765** | zinc finger protein 765 | protein_coding | 3 | 3 | 4 | 4 | 1.096 |
| 91662 | NM_001277126,NM | **NLRP12** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91663 | NM_001020818,NM | **MYADM** | myeloid associated differ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91664 | NM_001321522,NM | **ZNF845** | zinc finger protein 845 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91683 | NM_001177880,NM | **SYT12** | synaptotagmin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91687 | NM_001127181,NM | **CENPL** | centromere protein L | protein_coding | 37 | 34 | 38 | 35 | 0.917 |
| 91689 | NM_033318,NR_14( | **SMDT1** | single-pass membrane p | protein_coding | 23 | 22 | 24 | 23 | 0.974 |
| 91694 | NM_001329976,NM | **LONRF1** | LON peptidase N-termin | protein_coding | 3 | 4 | 4 | 5 | 1.243 |
| 91695 | NR_002184 | **RRP7BP** | ribosomal RNA processir | transcribed_pseu | 32 | 35 | 33 | 36 | 1.064 |
| 91703 | NM_080658,XM_01' | **ACY3** | aminoacylase 3 | protein_coding | 3 | 2 | 4 | 3 | 0.829 |
| 91734 | NM_033261 | **IDI2** | isopentenyl-diphosphate | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 91746 | NM_001031732,NM | **YTHDC1** | YTH domain containing 1 | protein_coding | 68 | 67 | 69 | 68 | 0.976 |
| 91748 | NM_001043318,NM | **MIDEAS** | mitotic deacetylase asso | protein_coding | 24 | 21 | 25 | 22 | 0.886 |
| 91749 | NM_153369,XM_01' | **MFSD4B** | major facilitator superfan | protein_coding | 4 | 3 | 5 | 4 | 0.824 |
| 91750 | NM_001024674,NM | **LIN52** | lin-52 DREAM MuvB core | protein_coding | 21 | 20 | 22 | 21 | 0.990 |
| 91752 | NM_194250 | **ZNF804A** | zinc finger protein 804A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91754 | NM_001329237,NM | **NEK9** | NIMA related kinase 9 | protein_coding | 29 | 28 | 30 | 29 | 0.969 |
| 91768 | NM_001100619,NM | **CABLES1** | Cdk5 and Abl enzyme su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91775 | NM_001134456,NM | **NXPE3** | neurexophilin and PC-es | protein_coding | 16 | 14 | 17 | 15 | 0.888 |
| 91782 | NM_001317899,NM | **CHMP7** | charged multivesicular b | protein_coding | 42 | 38 | 43 | 39 | 0.917 |
| 91801 | NM_001301010,NM | **ALKBH8** | alkB homolog 8, tRNA m | protein_coding | 18 | 17 | 19 | 18 | 0.913 |
| 91807 | NM_001308301,NM | **MYLK3** | myosin light chain kinase | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 91828 | NM_001077594,XM | **EXOC3L4** | exocyst complex compor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91833 | NM_001242414,NM | **WDR20** | WD repeat domain 20 | protein_coding | 22 | 24 | 23 | 25 | 1.111 |
| 91851 | NM_001143981,NM | **CHRDL1** | chordin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91860 | NM_001031733,NM | **CALML4** | calmodulin like 4 | protein_coding | 3 | 2 | 4 | 3 | 0.814 |
| 91862 | NM_001017967,NM | **MARVELD3** | MARVEL domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91869 | NM_052859,XM_00! | **RFT1** | RFT1 homolog | protein_coding | 31 | 36 | 32 | 37 | 1.159 |
| 91875 | NM_138376 | **TTC5** | tetratricopeptide repeat c | protein_coding | 13 | 13 | 14 | 14 | 1.004 |
| 91893 | NM_138378,NR_03( | **FDXACB1** | ferredoxin-fold anticodon | protein_coding | 16 | 17 | 17 | 18 | 1.075 |
| 91894 | NM_080659 | **C11orf52** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91937 | NM_001146726,NM | **TIMD4** | T cell immunoglobulin ar | protein_coding | 0 | 0 | 1 | 1 | 0.706 |
| 91942 | NM_174889 | **NDUFAF2** | NADH:ubiquinone oxidor | protein_coding | 140 | 131 | 141 | 132 | 0.934 |
| 91947 | NM_183376 | **ARRDC4** | arrestin domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91948 | NR_024172,NR_02- | **LINC00923** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 91949 | NM_153603,XM_01' | **COG7** | component of oligomeric | protein_coding | 10 | 10 | 11 | 11 | 0.997 |
| 91966 | NM_001171907,NM | **EOLA1** | endothelium and lymphc | protein_coding | 17 | 17 | 18 | 18 | 1.002 |
| 91975 | NM_001172831,NM | **ZNF300** | zinc finger protein 300 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 91977 | NM_001122853,NM | **MYOZ3** | myozenin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 91978 | NM_033513 | **TPGS1** | tubulin polyglutamylase | protein_coding | 10 | 10 | 11 | 11 | 0.945 |
| 92002 | NM_001130997,NM | **CCNQ** | cyclin Q | protein_coding | 33 | 36 | 34 | 37 | 1.083 |
| 92014 | NM_033412,NR_02- | **SLC25A51** | solute carrier family 25 m | protein_coding | 16 | 14 | 17 | 15 | 0.897 |
| 92017 | NM_001376490,NM | **SNX29** | sorting nexin 29 | protein_coding | 3 | 3 | 4 | 4 | 0.844 |
| 92070 | NR_033339 | **CTBP1-DT** | CTBP1 divergent transcr | lncRNA | 16 | 21 | 17 | 22 | 1.256 |
| 92086 | NM_178311,NM_17( | **GGTLC1** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92092 | NM_080660,XM_00( | **ZC3HAV1L** | zinc finger CCCH-type c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92104 | NM_152275 | **TTC30A** | tetratricopeptide repeat c | protein_coding | 1 | 1 | 2 | 2 | 1.055 |
| 92105 | NM_033547,XM_01: | **INTS4** | integrator complex subur | protein_coding | 23 | 19 | 24 | 20 | 0.847 |
| 92106 | NM_001330670,NM | **OXNAD1** | oxidoreductase NAD bin | protein_coding | 23 | 22 | 24 | 23 | 0.957 |
| 92126 | NM_032160 | **DSEL** | dermatan sulfate epimer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92129 | NM_001171706,NM | **RIPPLY1** | ripply transcriptional rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92140 | NM_001363136,NM | **MTDH** | metadherin | protein_coding | 112 | 99 | 113 | 100 | 0.886 |
| 92154 | NM_138383,XM_00! | **MTSS2** | MTSS I-BAR domain con | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 92162 | NM_001319941,NM | **TMEM88** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.041 |
| 92170 | NM_138384 | **MTG1** | mitochondrial ribosome a | protein_coding | 19 | 19 | 20 | 20 | 1.007 |
| 92181 | NM_152277,XM_01' | **UBTD2** | ubiquitin domain contain | protein_coding | 15 | 13 | 16 | 14 | 0.921 |
| 92196 | NM_001017920 | **DAPL1** | death associated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92211 | NM_001171971,NM | **CDHR1** | cadherin related family m | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 92235 | NM_001080426,XM | **DUSP27** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92241 | NM_001322923,NM | **RCSD1** | RCSD domain containing | protein_coding | 49 | 58 | 50 | 59 | 1.171 |
| 92249 | NR_015353,NR_15: | **LINC01278** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 0.917 |
| 92255 | NM_001007527,XM | **LMBRD2** | LMBR1 domain containir | protein_coding | 18 | 16 | 19 | 17 | 0.872 |
| 92259 | NM_033281 | **MRPS36** | mitochondrial ribosomal | protein_coding | 53 | 55 | 54 | 56 | 1.048 |
| 92270 | NM_001017971,NM | **ATP6AP1L** | ATPase H+ transporting | protein_coding | 2 | 2 | 3 | 3 | 1.055 |
| 92283 | NM_001297623,NM | **ZNF461** | zinc finger protein 461 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 92285 | NM_152279 | **ZNF585B** | zinc finger protein 585B | protein_coding | 1 | 1 | 2 | 2 | 0.989 |
| 92291 | NM_144575,XM_01 | **CAPN13** | calpain 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92292 | NM_001220494,NM | **GLYATL1** | glycine-N-acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92293 | NM_001136103,XM | **TMEM132C** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 92304 | NM_052863 | **SCGB3A1** | secretoglobin family 3A r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92305 | NM_001127266,NM | **TMEM129** | transmembrane protein 1 | protein_coding | 32 | 39 | 33 | 40 | 1.212 |
| 92312 | NM_001093725 | **MEX3A** | mex-3 RNA binding famil | protein_coding | 1 | 1 | 2 | 2 | 0.963 |
| 92335 | NM_001003786,NM | **STRADA** | STE20 related adaptor a | protein_coding | 25 | 26 | 26 | 27 | 1.026 |
| 92340 | NM_001164257,NM | **PRR29** | proline rich 29 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92342 | NM_001320199,NM | **METTL18** | methyltransferase like 18 | protein_coding | 18 | 17 | 19 | 18 | 0.932 |
| 92344 | NM_001146039,NM | **GORAB** | golgin, RAB6 interacting | protein_coding | 14 | 11 | 15 | 12 | 0.809 |
| 92345 | NM_001128931,NM | **NAF1** | nuclear assembly factor | protein_coding | 15 | 18 | 16 | 19 | 1.169 |
| 92346 | NM_001300760,NM | **C1orf105** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92359 | NM_139161,NM_17 | **CRB3** | crumbs cell polarity com | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 92369 | NM_080862,XM_01 | **SPSB4** | splA/ryanodine receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92370 | NM_001037172,NM | **PXYLP1** | 2-phosphoxylose phosph | protein_coding | 6 | 5 | 7 | 6 | 0.956 |
| 92399 | NM_001173512,NM | **MRRF** | mitochondrial ribosome r | protein_coding | 13 | 14 | 14 | 15 | 1.059 |
| 92400 | NM_033117,NR_02 | **RBM18** | RNA binding motif protei | protein_coding | 39 | 27 | 40 | 28 | 0.692 |
| 92421 | NM_152284 | **CHMP4C** | charged multivesicular b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92427 | gene-RPS2P4 | **RPS2P4** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.978 |
| 92482 | NM_001195304,NM | **BBIP1** | BBSome interacting prot | protein_coding | 11 | 10 | 12 | 11 | 0.958 |
| 92483 | NM_033195 | **LDHAL6B** | lactate dehydrogenase A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92507 | gene-RPS4XP2 | **RPS4XP2** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 92521 | NM_001033553,NM | **SPECC1** | sperm antigen with calpo | protein_coding | 1 | 1 | 2 | 2 | 0.862 |
| 92552 | NM_001135995 | **ATXN3L** | ataxin 3 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92558 | NM_001367886,NM | **BICDL1** | BICD family like cargo ad | protein_coding | 46 | 44 | 47 | 45 | 0.966 |
| 92565 | NM_001350939,NM | **FANK1** | fibronectin type III and ar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92579 | NM_001319945,NM | **G6PC3** | glucose-6-phosphatase c | protein_coding | 44 | 51 | 45 | 52 | 1.141 |
| 92591 | NM_080863 | **ASB16** | ankyrin repeat and SOCS | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92595 | NM_001172679,NM | **ZNF764** | zinc finger protein 764 | protein_coding | 12 | 12 | 13 | 13 | 1.042 |
| 92597 | NM_001244766,NM | **MOB1B** | MOB kinase activator 1B | protein_coding | 8 | 6 | 9 | 7 | 0.818 |
| 92609 | NM_001001563,NM | **TIMM50** | translocase of inner mito | protein_coding | 45 | 44 | 46 | 45 | 0.975 |
| 92610 | NM_052864 | **TIFA** | TRAF interacting protein | protein_coding | 13 | 11 | 14 | 12 | 0.853 |
| 92659 | NR_015454 | **MAFG-DT** | MAFG divergent transcri | lncRNA | 0 | 1 | 1 | 2 | 1.159 |
| 92667 | NM_001310338,NM | **MGME1** | mitochondrial genome m | protein_coding | 51 | 47 | 52 | 48 | 0.917 |
| 92675 | NM_001318043,NM | **DTD1** | D-aminoacyl-tRNA deacy | protein_coding | 36 | 45 | 37 | 46 | 1.230 |
| 92682 | gene-RPS15AP1 | **RPS15AP1** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 92689 | NM_001330764,NM | **FAM114A1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92691 | NM_001142310,NM | **TMEM169** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.120 |
| 92703 | NM_001322955,NM | **TMEM183A** | transmembrane protein 1 | protein_coding | 39 | 39 | 40 | 40 | 0.997 |
| 92714 | NM_001317968,NM | **ARRDC1** | arrestin domain containir | protein_coding | 4 | 2 | 5 | 3 | 0.749 |
| 92715 | NM_001346370,NM | **DPH7** | diphthamide biosynthesi | protein_coding | 26 | 26 | 27 | 27 | 1.018 |
| 92736 | NM_178160,XM_01 | **OTOP2** | otopetrin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92737 | NM_139072,XM_00 | **DNER** | delta/notch like EGF rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92745 | NM_033518,XM_00 | **SLC38A5** | solute carrier family 38 m | protein_coding | 274 | 276 | 275 | 277 | 1.007 |
| 92747 | NM_033197,XM_02 | **BPIFB1** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92749 | NM_145038,XM_00 | **DRC1** | dynein regulatory compl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92755 | gene-TUBBP1 | **TUBBP1** | tubulin beta pseudogene | pseudogene | 4 | 3 | 5 | 4 | 0.988 |
| 92797 | NM_001370285,NM | **HELB** | DNA helicase B | protein_coding | 6 | 6 | 7 | 7 | 0.943 |
| 92799 | NM_138392,XM_00 | **SHKBP1** | SH3KBP1 binding protei | protein_coding | 64 | 66 | 65 | 67 | 1.033 |
| 92806 | NM_145039 | **CENPBD1** | CENPB DNA-binding do | protein_coding | 12 | 11 | 13 | 12 | 0.981 |
| 92815 | NM_033445 | **H2AW** | H2A.W histone | protein_coding | 44 | 50 | 45 | 51 | 1.135 |
| 92822 | NM_001113525,NM | **ZNF276** | zinc finger protein 276 | protein_coding | 22 | 21 | 23 | 22 | 0.948 |
| 92840 | NM_001329556,NM | **REEP6** | receptor accessory prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92856 | NM_001320304,NM | **IMP4** | IMP U3 small nucleolar r | protein_coding | 130 | 137 | 131 | 138 | 1.054 |
| 92906 | NM_001142650,NM | **HNRNPLL** | heterogeneous nuclear r | protein_coding | 77 | 61 | 78 | 62 | 0.797 |
| 92912 | NM_001145335,NM | **UBE2Q2** | ubiquitin conjugating en | protein_coding | 40 | 42 | 41 | 43 | 1.038 |
| 92922 | NM_033212,XM_01 | **CCDC102A** | coiled-coil domain contai | protein_coding | 7 | 8 | 8 | 9 | 1.104 |
| 92935 | NM_138395 | **MARS2** | methionyl-tRNA synthet | protein_coding | 73 | 63 | 74 | 64 | 0.867 |
| 92949 | NM_001040272,NM | **ADAMTSL1** | ADAMTS like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92960 | NM_001270539,NM | **PEX11G** | peroxisomal biogenesis f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 92979 | NM_138396 | **MARCHF9** | membrane associated rir | protein_coding | 12 | 15 | 13 | 16 | 1.218 |
| 92999 | NM_145166 | **ZBTB47** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 93010 | NM_145236,XM_00 | **B3GNT7** | UDP-GlcNAc:betaGal be | protein_coding | 47 | 46 | 48 | 47 | 0.983 |
| 93034 | NM_001002006,NM | **NT5C1B** | 5'-nucleotidase, cytosolic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93035 | NM_177531,XM_01 | **PKHD1L1** | PKHD1 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 93058 | NM_001099337,NM | **COQ10A** | coenzyme Q10A | protein_coding | 8 | 7 | 9 | 8 | 0.869 |
| 93081 | NM_001286775,NM | **TEX30** | testis expressed 30 | protein_coding | 64 | 57 | 65 | 58 | 0.891 |
| 93082 | NM_001285485,NM | **NEURL3** | neuralized E3 ubiquitin p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93099 | NM_001035516,NM | **DMKN** | dermokine | protein_coding | 1 | 2 | 2 | 3 | 1.362 |
| 93100 | NM_001286829,NM | **NAPRT** | nicotinate phosphoribosy | protein_coding | 2 | 2 | 3 | 3 | 1.247 |
| 93107 | NM_172347 | **KCNG4** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93109 | NM_001011655,NM | **TMEM44** | transmembrane protein 4 | protein_coding | 1 | 1 | 2 | 2 | 0.776 |
| 93129 | NM_152288 | **ORAI3** | ORAI calcium release-ac | protein_coding | 0 | 0 | 1 | 1 | 1.152 |
| 93134 | NM_001330365,NM | **ZNF561** | zinc finger protein 561 | protein_coding | 16 | 16 | 17 | 17 | 1.036 |
| 93144 | gene-RPS10P5 | **RPS10P5** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 93145 | NM_001304347,NM | **OLFM2** | olfactomedin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93164 | NR_002774 | **HTR7P1** | 5-hydroxytryptamine rec | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 93166 | NM_001136239,XM | **PRDM6** | PR/SET domain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93183 | NM_145167 | **PIGM** | phosphatidylinositol glyc | protein_coding | 12 | 12 | 13 | 13 | 0.990 |
| 93185 | NM_001206665,NM | **IGSF8** | immunoglobulin superfa | protein_coding | 22 | 24 | 23 | 25 | 1.081 |
| 93190 | NM_001330361,NM | **C1orf158** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93202 | gene-TXNP1 | **TXNP1** | thioredoxin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 93210 | NM_001291726,NM | **PGAP3** | post-GPI attachment to p | protein_coding | 4 | 6 | 5 | 7 | 1.359 |
| 93233 | NM_001364171,NM | **CCDC114** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.033 |
| 93273 | NM_001001552,NM | **LEMD1** | LEM domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93323 | NM_001011699,NM | **HAUS8** | HAUS augmin like compl | protein_coding | 49 | 55 | 50 | 56 | 1.116 |
| 93343 | NM_001304547,NM | **MVB12A** | multivesicular body subu | protein_coding | 27 | 28 | 28 | 29 | 1.040 |
| 93349 | NM_001308162,NM | **SP140L** | SP140 nuclear body prot | protein_coding | 59 | 52 | 60 | 53 | 0.877 |
| 93377 | NM_001040102,NM | **OPALIN** | oligodendrocytic myelin p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93380 | NM_001330000,NM | **MMGT1** | membrane magnesium t | protein_coding | 20 | 16 | 21 | 17 | 0.840 |
| 93408 | NM_138403,XM_01 | **MYL10** | myosin light chain 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93426 | NM_001143763,NM | **SYCE1** | synaptonemal complex c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93429 | NR_027003 | **LOC93429** | uncharacterized LOC934 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93432 | NM_001293626,XM | **MGAM2** | maltase-glucoamylase 2 | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 93436 | NM_001199196,NM | **ARMC6** | armadillo repeat containi | protein_coding | 95 | 102 | 96 | 103 | 1.073 |
| 93463 | NR_135202 | **LOC93463** | uncharacterized LOC934 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93474 | NM_001204220,NM | **ZNF670** | zinc finger protein 670 | protein_coding | 1 | 1 | 2 | 2 | 0.980 |
| 93487 | NM_144578,XM_01 | **MAPK1IP1L** | mitogen-activated protein | protein_coding | 43 | 43 | 44 | 44 | 0.996 |
| 93492 | NM_001141968,NM | **TPTE2** | transmembrane phosph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93517 | NM_145168,XM_00 | **SDR42E1** | short chain dehydrogena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93550 | NM_001128324,NM | **ZFAND4** | zinc finger AN1-type con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93556 | NR_021485 | **EGFEM1P** | EGF like and EMI domai | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 93587 | NM_001134665,NM | **TRMT10A** | tRNA methyltransferase | protein_coding | 9 | 11 | 10 | 12 | 1.167 |
| 93589 | NM_172364,XM_01 | **CACNA2D4** | calcium voltage-gated ch | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93594 | NM_001145088,NM | **TBC1D31** | TBC1 domain family mer | protein_coding | 22 | 20 | 23 | 21 | 0.885 |
| 93611 | NM_001014765,NM | **FBXO44** | F-box protein 44 | protein_coding | 1 | 1 | 2 | 2 | 1.309 |
| 93621 | NM_001272053,NM | **MRFAP1** | Morf4 family associated p | protein_coding | 162 | 156 | 163 | 157 | 0.963 |
| 93622 | NR_015433,NR_15 | **LOC93622** | Morf4 family associated p | transcribed_pseu | 41 | 40 | 42 | 41 | 0.962 |
| 93624 | NM_152293,XM_01 | **TADA2B** | transcriptional adaptor 2l | protein_coding | 25 | 25 | 26 | 26 | 1.008 |
| 93627 | NM_001163435,NM | **TBCK** | TBC1 domain containing | protein_coding | 8 | 10 | 9 | 11 | 1.173 |
| 93643 | NM_001146016,NM | **TJAP1** | tight junction associated | protein_coding | 40 | 42 | 41 | 43 | 1.051 |
| 93649 | NM_001146312,NM | **MYOCD** | myocardin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93650 | NM_033068 | **ACP4** | acid phosphatase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93653 | NR_002330 | **ST7-AS1** | ST7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93654 | NR_002331,NR_10 | **ST7-AS2** | ST7 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93655 | NR_002332 | **ST7-OT3** | ST7 overlapping transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93659 | NM_033043 | **CGB5** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93661 | NM_033328 | **CAPZA3** | capping actin protein of | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93663 | NM_033515,XM_00 | **ARHGAP18** | Rho GTPase activating p | protein_coding | 21 | 17 | 22 | 18 | 0.837 |
| 93664 | NM_001009571,NM | **CADPS2** | calcium dependent secre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93668 | NR_026684 | **HPYR1** | Helicobacter pylori respo | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 93948 | gene-RPS23P1 | **RPS23P1** | ribosomal protein S23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 93953 | NM_052957,XM_00 | **GCNA** | germ cell nuclear acidic | protein_coding | 2 | 2 | 3 | 3 | 0.802 |
| 93973 | NM_022899,XM_00 | **ACTR8** | actin related protein 8 | protein_coding | 36 | 29 | 37 | 30 | 0.821 |
| 93974 | NM_016311,NM_17 | **ATP5IF1** | ATP synthase inhibitory f | protein_coding | 374 | 404 | 375 | 405 | 1.079 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 93978 | NM_001007033,NM | **CLEC6A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93979 | NM_001127441,NM | **CPA5** | carboxypeptidase A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 93986 | NM_001172766,NM | **FOXP2** | forkhead box P2 | protein_coding | 1 | 1 | 2 | 2 | 0.951 |
| 93994 | gene-NDUFB3P2 | **NDUFB3P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 93995 | gene-NDUFB3P4 | **NDUFB3P4** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 93996 | gene-NDUFB3P3 | **NDUFB3P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 93997 | gene-NDUFB3P5 | **NDUFB3P5** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 94005 | NM_033198 | **PIGS** | phosphatidylinositol glyc | protein_coding | 75 | 77 | 76 | 78 | 1.023 |
| 94009 | NR_027786 | **SERHL** | serine hydrolase like (ps | transcribed_pseu | 0 | 0 | 1 | 1 | 0.987 |
| 94015 | NM_001330453,NM | **TTYH2** | tweety family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 94017 | rna-TRS-TGA2-1 | **TRS-TGA2-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 94025 | NM_024690,XM_01 | **MUC16** | mucin 16, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94026 | NM_033482 | **POM121L2** | POM121 transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94027 | NM_033142,XM_02 | **CGB7** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94030 | NM_001080457,NM | **LRRC4B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94031 | NM_001297559,NM | **HTRA3** | HtrA serine peptidase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94032 | NM_033259 | **CAMK2N2** | calcium/calmodulin depe | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 94033 | NM_177478 | **FTMT** | ferritin mitochondrial | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94039 | NM_001300949,NM | **ZNF101** | zinc finger protein 101 | protein_coding | 56 | 47 | 57 | 48 | 0.849 |
| 94056 | NM_032796,NR_03 | **SYAP1** | synapse associated prot | protein_coding | 23 | 22 | 24 | 23 | 0.934 |
| 94059 | NM_001301782 | **LENG9** | leukocyte receptor cluste | protein_coding | 4 | 6 | 5 | 7 | 1.329 |
| 94081 | NM_001322977,NM | **SFXN1** | sideroflexin 1 | protein_coding | 175 | 157 | 176 | 158 | 0.897 |
| 94086 | NM_033194 | **HSPB9** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 0.856 |
| 94097 | NM_001330400,NM | **SFXN5** | sideroflexin 5 | protein_coding | 2 | 2 | 3 | 3 | 0.898 |
| 94101 | NM_001128150,NM | **ORMDL1** | ORMDL sphingolipid bio | protein_coding | 116 | 110 | 117 | 111 | 0.947 |
| 94103 | NM_001320801,NM | **ORMDL3** | ORMDL sphingolipid bio | protein_coding | 119 | 123 | 120 | 124 | 1.039 |
| 94104 | NM_013329,NM_01 | **PAXBP1** | PAX3 and PAX7 binding | protein_coding | 34 | 31 | 35 | 32 | 0.903 |
| 94107 | NM_053045 | **TMEM203** | transmembrane protein 2 | protein_coding | 38 | 39 | 39 | 40 | 1.016 |
| 94115 | NM_033183 | **CGB8** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94120 | NM_001009991,NM | **SYTL3** | synaptotagmin like 3 | protein_coding | 24 | 24 | 25 | 25 | 0.996 |
| 94121 | NM_001129896,NM | **SYTL4** | synaptotagmin like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94122 | NM_001163334,NM | **SYTL5** | synaptotagmin like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94134 | NM_001270695,NM | **ARHGAP12** | Rho GTPase activating p | protein_coding | 1 | 1 | 2 | 2 | 0.950 |
| 94137 | NM_178857 | **RP1L1** | RP1 like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 94145 | NR_146601 | **CDRT3** | CMT1A duplicated regior | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 94150 | NR_033371 | **CDRT7** | CMT1A duplicated regior | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 94151 | NR_103559 | **CDRT8** | CMT1A duplicated regior | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 94158 | NR_003261 | **CDRT15P1** | CDRT15 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 94160 | NM_033226 | **ABCC12** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94161 | NR_000024 | **SNORD46** | small nucleolar RNA, C/I | snoRNA | 5 | 2 | 6 | 3 | 0.507 |
| 94162 | NR_001456 | **SNORD38A** | small nucleolar RNA, C/I | snoRNA | 5 | 1 | 6 | 2 | 0.380 |
| 94163 | NR_001457 | **SNORD38B** | small nucleolar RNA, C/I | snoRNA | 6 | 10 | 7 | 11 | 1.478 |
| 94233 | NM_001030015,NM | **OPN4** | opsin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94234 | NM_033260 | **FOXQ1** | forkhead box Q1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94235 | NM_033258,XM_01 | **GNG8** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94236 | NR_033424 | **DNAJA1P5** | DnaJ heat shock protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 94239 | NM_012412,NM_13 | **H2AZ2** | H2A.Z variant histone 2 | protein_coding | 86 | 83 | 87 | 84 | 0.957 |
| 94240 | NM_001002264,NM | **EPSTI1** | epithelial stromal interact | protein_coding | 13 | 11 | 14 | 12 | 0.847 |
| 94241 | NM_001135733,NM | **TP53INP1** | tumor protein p53 inducil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94274 | NM_001243947,NM | **PPP1R14A** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 94297 | gene-PPP1R11P1 | **PPP1R11P1** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 94302 | gene-PPP1R14BP4 | **PPP1R14BP4** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 95681 | NM_001257158,NM | **CEP41** | centrosomal protein 41 | protein_coding | 16 | 17 | 17 | 18 | 1.039 |
| 96459 | NM_001008738,NM | **FNIP1** | folliculin interacting prote | protein_coding | 15 | 12 | 16 | 13 | 0.853 |
| 96597 | NR_147084 | **TBC1D27P** | TBC1 domain family mer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 96610 | NR_027293 | **BMS1P20** | BMS1 pseudogene 20 | transcribed_pseu | 19 | 18 | 20 | 19 | 0.971 |
| 96626 | NM_033514,NR_02 | **LIMS3** | LIM zinc finger domain c | protein_coding | 1 | 1 | 2 | 2 | 1.051 |
| 96764 | NM_001317902,NM | **TGS1** | trimethylguanosine synth | protein_coding | 81 | 74 | 82 | 75 | 0.918 |
| 103910 | NM_001144944,NM | **MYL12B** | myosin light chain 12B | protein_coding | 335 | 338 | 336 | 339 | 1.008 |
| 112398 | NM_053046,NM_08 | **EGLN2** | egl-9 family hypoxia indu | protein_coding | 77 | 83 | 78 | 84 | 1.070 |
| 112399 | NM_001308103,NM | **EGLN3** | egl-9 family hypoxia indu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112401 | NR_159880 | **BIRC8** | baculoviral IAP repeat co | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 112464 | NM_145040 | **CAVIN3** | caveolae associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112476 | NM_001256442,NM | **PRRT2** | proline rich transmembra | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 112479 | NM_001142725,NM | **ERI2** | ERI1 exoribonuclease fa | protein_coding | 17 | 17 | 18 | 18 | 1.010 |
| 112483 | NM_001320845,NM | **SAT2** | spermidine/spermine N1 | protein_coding | 9 | 6 | 10 | 7 | 0.730 |
| 112487 | NM_080664 | **DTD2** | D-aminoacyl-tRNA deacy | protein_coding | 19 | 18 | 20 | 19 | 0.952 |
| 112495 | NM_138408 | **GTF3C6** | general transcription fact | protein_coding | 239 | 263 | 240 | 264 | 1.103 |
| 112574 | NM_001102575,NM | **SNX18** | sorting nexin 18 | protein_coding | 65 | 57 | 66 | 58 | 0.881 |
| 112597 | NR_024204,NR_02 | **CYTOR** | cytoskeleton regulator RI | lncRNA | 55 | 50 | 56 | 51 | 0.921 |
| 112609 | NM_001346541,NM | **MRAP2** | melanocortin 2 receptor a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112611 | NM_001322335,NM | **RWDD2A** | RWD domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 112616 | NM_138410,NM_18 | **CMTM7** | CKLF like MARVEL trans | protein_coding | 1 | 0 | 2 | 1 | 0.858 |
| 112703 | NM_001308429,NM | **FAM71E1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112714 | NM_207312 | **TUBA3E** | tubulin alpha 3e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112724 | NM_001145971,NM | **RDH13** | retinol dehydrogenase 1 | protein_coding | 20 | 18 | 21 | 19 | 0.908 |
| 112744 | NM_052872,XM_01 | **IL17F** | interleukin 17F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112752 | NM_001102564,NM | **IFT43** | intraflagellar transport 43 | protein_coding | 6 | 7 | 7 | 8 | 1.108 |
| 112755 | NM_052874,XM_01 | **STX1B** | syntaxin 1B | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 112770 | NM_001256604,NM | **GLMP** | glycosylated lysosomal r | protein_coding | 8 | 10 | 9 | 11 | 1.164 |
| 112802 | NM_033448,XM_01 | **KRT71** | keratin 71 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112812 | NM_001031734 | **FDX2** | ferredoxin 2 | protein_coding | 55 | 61 | 56 | 62 | 1.100 |
| 112817 | NM_001134670,NM | **HOGA1** | 4-hydroxy-2-oxoglutarate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112840 | NM_001008726,NM | **WDR89** | WD repeat domain 89 | protein_coding | 27 | 24 | 28 | 25 | 0.899 |
| 112846 | gene-RBM8B | **RBM8B** | RNA binding motif protei | pseudogene | 18 | 21 | 19 | 22 | 1.148 |
| 112849 | NM_001331158,NM | **L3HYPDH** | trans-L-3-hydroxyproline | protein_coding | 6 | 7 | 7 | 8 | 1.054 |
| 112858 | NM_033550 | **TP53RK** | TP53 regulating kinase | protein_coding | 50 | 48 | 51 | 49 | 0.961 |
| 112869 | NM_138414,XM_01 | **SGF29** | SAGA complex associate | protein_coding | 64 | 65 | 65 | 66 | 1.013 |
| 112885 | NM_001135862,NM | **PHF21B** | PHD finger protein 21B | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 112936 | NM_052875,XM_01 | **VPS26B** | VPS26, retromer comple | protein_coding | 48 | 46 | 49 | 47 | 0.961 |
| 112937 | NM_001080407,XM | **GLB1L3** | galactosidase beta 1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112939 | NM_052876,XM_00 | **NACC1** | nucleus accumbens ass | protein_coding | 114 | 117 | 115 | 118 | 1.026 |
| 112942 | NM_001282761,NM | **CFAP36** | cilia and flagella associa | protein_coding | 25 | 24 | 26 | 25 | 0.965 |
| 112950 | NM_001001653,NM | **MED8** | mediator complex subun | protein_coding | 72 | 80 | 73 | 81 | 1.097 |
| 112970 | NM_138417 | **KTI12** | KTI12 chromatin associa | protein_coding | 21 | 23 | 22 | 24 | 1.065 |
| 113000 | NM_001324086,NM | **RPUSD1** | RNA pseudouridine synth | protein_coding | 70 | 78 | 71 | 79 | 1.114 |
| 113026 | NM_133373,XM_01 | **PLCD3** | phospholipase C delta 3 | protein_coding | 2 | 2 | 3 | 3 | 1.014 |
| 113091 | NM_178449 | **PTH2** | parathyroid hormone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113115 | NM_001099286,NM | **MTFR2** | mitochondrial fission reg | protein_coding | 35 | 38 | 36 | 39 | 1.092 |
| 113130 | NM_080668,XM_00 | **CDCA5** | cell division cycle associa | protein_coding | 220 | 213 | 221 | 214 | 0.969 |
| 113146 | NM_001350929,NM | **AHNAK2** | AHNAK nucleoprotein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113157 | NR_002775 | **RPLP0P2** | ribosomal protein lateral | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 113174 | NM_138421 | **SAAL1** | serum amyloid A like 1 | protein_coding | 111 | 104 | 112 | 105 | 0.939 |
| 113177 | NM_001031735,NM | **IZUMO4** | IZUMO family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.334 |
| 113178 | NM_001329539,NM | **SCAMP4** | secretory carrier membra | protein_coding | 27 | 27 | 28 | 28 | 0.976 |
| 113179 | NM_001329533,NM | **ADAT3** | adenosine deaminase tR | protein_coding | 4 | 4 | 5 | 5 | 0.865 |
| 113189 | NM_130468 | **CHST14** | carbohydrate sulfotransf | protein_coding | 15 | 19 | 16 | 20 | 1.228 |
| 113201 | NM_138423,NM_17 | **GOLM2** | golgi membrane protein | protein_coding | 57 | 48 | 58 | 49 | 0.841 |
| 113220 | NM_138424,XM_00 | **KIF12** | kinesin family member 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113230 | NM_001291291,NR | **MISP3** | MISP family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 113235 | NM_001242366,NM | **SLC46A1** | solute carrier family 46 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113246 | NM_001301834,NM | **C12orf57** | chromosome 12 open rea | protein_coding | 3 | 3 | 4 | 4 | 0.920 |
| 113251 | NM_001170803,NM | **LARP4** | La ribonucleoprotein 4 | protein_coding | 62 | 59 | 63 | 60 | 0.949 |
| 113263 | NM_138426 | **GLCCI1** | glucocorticoid induced 1 | protein_coding | 11 | 9 | 12 | 10 | 0.823 |
| 113277 | NM_001291586,NM | **TMEM106A** | transmembrane protein 1 | protein_coding | 4 | 4 | 5 | 5 | 0.879 |
| 113278 | NM_001370085,NM | **SLC52A3** | solute carrier family 52 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113402 | NM_145169,NR_13 | **SFT2D1** | SFT2 domain containing | protein_coding | 72 | 74 | 73 | 75 | 1.024 |
| 113419 | NM_144582 | **TEX261** | testis expressed 261 | protein_coding | 126 | 125 | 127 | 126 | 0.996 |
| 113444 | NM_001164824,NM | **SMIM12** | small integral membrane | protein_coding | 30 | 30 | 31 | 31 | 1.011 |
| 113451 | NM_001293562,NM | **AZIN2** | antizyme inhibitor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.125 |
| 113452 | NM_001329722,NM | **TMEM54** | transmembrane protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113457 | NM_080386 | **TUBA3D** | tubulin alpha 3d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113510 | NM_001297755,NM | **HELQ** | helicase, POLQ like | protein_coding | 11 | 10 | 12 | 11 | 0.858 |
| 113540 | NM_052999,NM_18 | **CMTM1** | CKLF like MARVEL trans | protein_coding | 14 | 14 | 15 | 15 | 0.955 |
| 113612 | NM_183075,XM_00 | **CYP2U1** | cytochrome P450 family | protein_coding | 5 | 5 | 6 | 6 | 0.953 |
| 113622 | NM_138430,NM_19 | **ADPRHL1** | ADP-ribosylhydrolase like | protein_coding | 1 | 1 | 2 | 2 | 0.848 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 113655 | NM_138431,NR_13 | **MFSD3** | major facilitator superfam | protein_coding | 6 | 5 | 7 | 6 | 0.908 |
| 113675 | NM_001304993,NM | **SDSL** | serine dehydratase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113691 | NR_003608 | **TUBA3FP** | tubulin alpha 3f pseudog | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 113730 | NM_138433 | **KLHDC7B** | kelch domain containing | protein_coding | 4 | 4 | 5 | 5 | 1.065 |
| 113746 | NM_001286136,NM | **ODF3** | outer dense fiber of sper | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113763 | NM_138434 | **ZBED6CL** | ZBED6 C-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113791 | NM_001135911,NM | **PIK3IP1** | phosphoinositide-3-kinas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113802 | NM_001102592,NM | **HENMT1** | HEN methyltransferase 1 | protein_coding | 152 | 163 | 153 | 164 | 1.075 |
| 113828 | NM_138435 | **FAM83F** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113829 | NM_080670 | **SLC35A4** | solute carrier family 35 m | protein_coding | 144 | 153 | 145 | 154 | 1.062 |
| 113835 | NM_001316996,NM | **ZNF257** | zinc finger protein 257 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113878 | NM_001102594,NM | **DTX2** | deltex E3 ubiquitin ligase | protein_coding | 16 | 16 | 17 | 17 | 1.025 |
| 114026 | NM_052882 | **ZIM3** | zinc finger imprinted 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114034 | NM_025077,XM_00 | **TOE1** | target of EGR1, exonucle | protein_coding | 62 | 65 | 63 | 66 | 1.047 |
| 114036 | NR_027266,NR_02 | **LINC00310** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.927 |
| 114038 | NR_026863 | **LINC00313** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114041 | NR_026542,NR_02 | **B3GALT5-AS1** | B3GALT5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114042 | NR_135279 | **LINC00334** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114043 | NR_026547,NR_02 | **TSPEAR-AS2** | TSPEAR antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.737 |
| 114044 | NR_002776,NR_11 | **MCM3AP-AS1** | MCM3AP antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.816 |
| 114049 | NM_001202560,NM | **BUD23** | BUD23 rRNA methyltran | protein_coding | 223 | 219 | 224 | 220 | 0.982 |
| 114088 | NM_015163,NM_05 | **TRIM9** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 114112 | NM_001173513,NM | **TXNRD3** | thioredoxin reductase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114131 | NM_053049 | **UCN3** | urocortin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114132 | NM_001135163,NM | **SIGLEC11** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114134 | NM_052885,XM_01 | **SLC2A13** | solute carrier family 2 me | protein_coding | 1 | 1 | 2 | 2 | 0.987 |
| 114182 | gene-FAM8A6P | **FAM8A6P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 114190 | gene-SIGLEC30P | **SIGLEC30P** | sialic acid binding Ig like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 114192 | gene-SIGLEC20P | **SIGLEC20P** | sialic acid binding Ig like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 114195 | gene-SIGLEC22P | **SIGLEC22P** | sialic acid binding Ig like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 114224 | XR_158845 | **LOC114224** | uncharacterized LOC114 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114294 | NM_001288585,NM | **LACTB** | lactamase beta | protein_coding | 7 | 5 | 8 | 6 | 0.741 |
| 114327 | NM_001172420,NM | **EFHC1** | EF-hand domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 114335 | NM_001382421,NM | **CGB1** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114336 | NM_001319065,NM | **CGB2** | chorionic gonadotropin s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114548 | NM_001079821,NM | **NLRP3** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114569 | NM_052886,XM_01 | **MAL2** | mal, T cell differentiation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114571 | NM_080866,XM_01 | **SLC22A9** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114599 | NR_000025 | **SNORD15B** | small nucleolar RNA, C/I | snoRNA | 4 | 4 | 5 | 5 | 1.032 |
| 114609 | NM_001039661,NM | **TIRAP** | TIR domain containing a | protein_coding | 0 | 0 | 1 | 1 | 1.097 |
| 114614 | NR_001458 | **MIR155HG** | MIR155 host gene | lncRNA | 43 | 32 | 44 | 33 | 0.747 |
| 114625 | NM_001017922,NM | **ERMAP** | erythroblast membrane a | protein_coding | 3 | 4 | 4 | 5 | 1.237 |
| 114655 | NR_145963 | **SNORD73B** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.755 |
| 114657 | gene-COX7BP1 | **COX7BP1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 0.784 |
| 114659 | NM_001321350,NM | **LRRC37B** | leucine rich repeat conta | protein_coding | 4 | 3 | 5 | 4 | 0.992 |
| 114757 | NM_134268,XM_00 | **CYGB** | cytoglobin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114758 | NR_001554 | **CSPG4P1Y** | CSPG4 pseudogene 1 Y | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 114760 | NR_001524 | **TTTY3** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114761 | NR_001525 | **TTTY4** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114769 | NM_001017534,NM | **CARD16** | caspase recruitment dom | protein_coding | 30 | 30 | 31 | 31 | 0.975 |
| 114770 | NM_001363546,NM | **PGLYRP2** | peptidoglycan recognitio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114771 | NM_052891,XM_01 | **PGLYRP3** | peptidoglycan recognitio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114780 | NM_001076780,NM | **PKD1L2** | polycystin 1 like 2 (gene/ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114781 | NM_001099272,NM | **BTBD9** | BTB domain containing 9 | protein_coding | 4 | 4 | 5 | 5 | 0.909 |
| 114783 | NM_001080434,XM | **LMTK3** | lemur tyrosine kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 114784 | NM_001281956,NM | **CSMD2** | CUB and Sushi multiple | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114785 | NM_052897,XM_00 | **MBD6** | methyl-CpG binding dom | protein_coding | 11 | 11 | 12 | 12 | 0.951 |
| 114786 | NM_052898 | **XKR4** | XK related 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114787 | NM_052899 | **GPRIN1** | G protein regulated indu | protein_coding | 3 | 4 | 4 | 5 | 1.145 |
| 114788 | NM_001363185,NM | **CSMD3** | CUB and Sushi multiple | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114789 | NM_001006641,NM | **SLC25A25** | solute carrier family 25 m | protein_coding | 13 | 13 | 14 | 14 | 0.991 |
| 114790 | NM_052902,XM_01 | **STK11IP** | serine/threonine kinase 1 | protein_coding | 10 | 10 | 11 | 11 | 1.007 |
| 114791 | NM_001102610,NM | **TUBGCP5** | tubulin gamma complex | protein_coding | 27 | 22 | 28 | 23 | 0.813 |
| 114792 | NM_001286250,NM | **KLHL32** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.198 |
| 114793 | NM_052905,XM_00 | **FMNL2** | formin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.046 |
| 114794 | NM_052906,NR_11 | **ELFN2** | extracellular leucine rich | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 114795 | NM_001286219,NM | **TMEM132B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114796 | NR_021487,NR_02 | **PSMG3-AS1** | PSMG3 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.171 |
| 114798 | NM_001281503,NM | **SLITRK1** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114799 | NM_052911,XM_01 | **ESCO1** | establishment of sister cl | protein_coding | 20 | 17 | 21 | 18 | 0.877 |
| 114800 | NM_001080433,NM | **CCDC85A** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114801 | NM_001258276,NM | **TMEM200A** | transmembrane protein 2 | protein_coding | 20 | 19 | 21 | 20 | 0.946 |
| 114803 | NM_001085487,XM | **MYSM1** | Myb like, SWIRM and MI | protein_coding | 24 | 18 | 25 | 19 | 0.782 |
| 114804 | NM_001330501,NM | **RNF157** | ring finger protein 157 | protein_coding | 154 | 146 | 155 | 147 | 0.951 |
| 114805 | NM_001301627,NM | **GALNT13** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114814 | NR_002328,NR_10 | **GNRHR2** | gonadotropin releasing h | transcribed_pseu | 2 | 1 | 3 | 2 | 0.894 |
| 114815 | NM_001013031,NM | **SORCS1** | sortilin related VPS10 do | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 114817 | gene-CSPG4P5 | **CSPG4P5** | chondroitin sulfate prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 114818 | NM_052920,XM_00 | **KLHL29** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114819 | NR_023386 | **CROCCP3** | CROCC pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 114821 | NM_001329616,NM | **ZBED9** | zinc finger BED-type con | protein_coding | 1 | 1 | 2 | 2 | 0.907 |
| 114822 | NM_052924,XM_00 | **RHPN1** | rhophilin Rho GTPase bi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114823 | NM_001375638,NM | **LENG8** | leukocyte receptor cluste | protein_coding | 43 | 40 | 44 | 41 | 0.936 |
| 114824 | NM_001103150,NM | **PNMA5** | PNMA family member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114825 | NM_001130864,NM | **PWWP2A** | PWWP domain containir | protein_coding | 22 | 20 | 23 | 21 | 0.893 |
| 114826 | NM_052928,XM_01 | **SMYD4** | SET and MYND domain | protein_coding | 12 | 11 | 13 | 12 | 0.922 |
| 114827 | NM_052929,XM_01 | **FHAD1** | forkhead associated pho | protein_coding | 9 | 9 | 10 | 10 | 0.981 |
| 114836 | NM_001184714,NM | **SLAMF6** | SLAM family member 6 | protein_coding | 18 | 19 | 19 | 20 | 1.045 |
| 114876 | NM_001242508,NM | **OSBPL1A** | oxysterol binding protein | protein_coding | 1 | 1 | 2 | 2 | 0.866 |
| 114879 | NM_001144063,NM | **OSBPL5** | oxysterol binding protein | protein_coding | 4 | 4 | 5 | 5 | 1.037 |
| 114880 | NM_001201480,NM | **OSBPL6** | oxysterol binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114881 | NM_145798,XM_01 | **OSBPL7** | oxysterol binding protein | protein_coding | 10 | 12 | 11 | 13 | 1.137 |
| 114882 | NM_001003712,NM | **OSBPL8** | oxysterol binding protein | protein_coding | 75 | 62 | 76 | 63 | 0.818 |
| 114883 | NM_001330580,NM | **OSBPL9** | oxysterol binding protein | protein_coding | 77 | 61 | 78 | 62 | 0.789 |
| 114884 | NM_001174060,NM | **OSBPL10** | oxysterol binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114885 | NM_022776,XR_00 | **OSBPL11** | oxysterol binding protein | protein_coding | 35 | 29 | 36 | 30 | 0.828 |
| 114897 | NM_030968,NM_15 | **C1QTNF1** | C1q and TNF related 1 | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 114898 | NM_001366504,NM | **C1QTNF2** | C1q and TNF related 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114899 | NM_030945,NM_18 | **C1QTNF3** | C1q and TNF related 3 | protein_coding | 2 | 1 | 3 | 2 | 0.866 |
| 114900 | NM_031909,XM_01 | **C1QTNF4** | C1q and TNF related 4 | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 114902 | NM_001278431,NM | **C1QTNF5** | C1q and TNF related 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114904 | NM_001365878,NM | **C1QTNF6** | C1q and TNF related 6 | protein_coding | 2 | 2 | 3 | 3 | 1.200 |
| 114905 | NM_001135170,NM | **C1QTNF7** | C1q and TNF related 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114907 | NM_001242463,NM | **FBXO32** | F-box protein 32 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114908 | NM_052932 | **TMEM123** | transmembrane protein 1 | protein_coding | 253 | 219 | 254 | 220 | 0.866 |
| 114915 | NR_015370 | **EPB41L4A-AS1** | EPB41L4A antisense RN | lncRNA | 20 | 21 | 21 | 22 | 1.041 |
| 114926 | NM_001135674,NM | **SMIM19** | small integral membrane | protein_coding | 14 | 13 | 15 | 14 | 0.932 |
| 114928 | NM_001004051,NM | **GPRASP2** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114932 | NM_203462,XM_00 | **MRFAP1L1** | Morf4 family associated p | protein_coding | 143 | 142 | 144 | 143 | 0.992 |
| 114960 | NM_001304968,NM | **TSGA13** | testis specific 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114971 | NM_001143984,NM | **PTPMT1** | protein tyrosine phospha | protein_coding | 27 | 30 | 28 | 31 | 1.094 |
| 114984 | NM_001142499,NM | **FLYWCH2** | FLYWCH family member | protein_coding | 35 | 37 | 36 | 38 | 1.039 |
| 114987 | NM_001006615,NM | **WDR31** | WD repeat domain 31 | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 114990 | NM_138440 | **VASN** | vasorin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114991 | NM_001318040,NM | **ZNF618** | zinc finger protein 618 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115004 | NM_138441 | **CGAS** | cyclic GMP-AMP synthas | protein_coding | 31 | 29 | 32 | 30 | 0.931 |
| 115019 | NM_052934,NM_13 | **SLC26A9** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115024 | NM_052935,NR_03 | **NT5C3B** | 5'-nucleotidase, cytosolic | protein_coding | 2 | 2 | 3 | 3 | 1.085 |
| 115098 | NM_001136203,NM | **CCDC124** | coiled-coil domain contai | protein_coding | 253 | 276 | 254 | 277 | 1.092 |
| 115106 | NM_138443,NR_02 | **HAUS1** | HAUS augmin like compl | protein_coding | 106 | 97 | 107 | 98 | 0.912 |
| 115110 | NR_037844 | **TNFRSF14-AS1** | TNFRSF14 antisense RN | lncRNA | 4 | 5 | 5 | 6 | 1.059 |
| 115111 | NM_001282356,NM | **SLC26A7** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 115123 | NM_178450,XM_01 | **MARCHF3** | membrane associated rir | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 115196 | NM_001102651,XM | **ZNF554** | zinc finger protein 554 | protein_coding | 1 | 1 | 2 | 2 | 0.926 |
| 115201 | NM_001321287,NM | **ATG4A** | autophagy related 4A cy | protein_coding | 20 | 19 | 21 | 20 | 0.939 |
| 115207 | NM_138444 | **KCTD12** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 0.989 |

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|---|---|---|---|---|---|---|---|---|---|
| 115209 | NM_145243 | **OMA1** | OMA1 zinc metallopeptic | protein_coding | 25 | 26 | 26 | 27 | 1.043 |
| 115265 | NM_145244 | **DDIT4L** | DNA damage inducible t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115273 | NM_001193532,NM | **RAB42** | RAB42, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115286 | NM_001164796,NM | **SLC25A26** | solute carrier family 25 m | protein_coding | 24 | 20 | 25 | 21 | 0.844 |
| 115290 | NM_024907,NM_14 | **FBXO17** | F-box protein 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115294 | NM_001286782,NM | **PCMTD1** | protein-L-isoaspartate (D | protein_coding | 7 | 8 | 8 | 9 | 1.191 |
| 115330 | NM_001303473,NM | **GPR146** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115350 | NM_001159397,NM | **FCRL1** | Fc receptor like 1 | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 115352 | NM_001320333,NM | **FCRL3** | Fc receptor like 3 | protein_coding | 6 | 6 | 7 | 7 | 0.962 |
| 115353 | NM_001256409,NM | **LRRC42** | leucine rich repeat conta | protein_coding | 56 | 54 | 57 | 55 | 0.966 |
| 115361 | NM_052941 | **GBP4** | guanylate binding protei | protein_coding | 102 | 88 | 103 | 89 | 0.861 |
| 115362 | NM_001134486,NM | **GBP5** | guanylate binding protei | protein_coding | 246 | 234 | 247 | 235 | 0.953 |
| 115399 | NM_198075,XM_00 | **LRRC56** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 115416 | NM_138446,XM_01 | **MALSU1** | mitochondrial assembly | protein_coding | 14 | 15 | 15 | 16 | 1.068 |
| 115426 | NM_152896,NR_04 | **UHRF2** | ubiquitin like with PHD a | protein_coding | 21 | 17 | 22 | 18 | 0.834 |
| 115509 | NM_138447,NR_07 | **ZNF689** | zinc finger protein 689 | protein_coding | 20 | 20 | 21 | 21 | 0.993 |
| 115548 | NM_001146032,NM | **FCHO2** | FCH and mu domain cor | protein_coding | 1 | 0 | 2 | 1 | 0.878 |
| 115557 | NM_001111270,NM | **ARHGEF25** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 115560 | NM_001258280,NM | **ZNF501** | zinc finger protein 501 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115572 | NM_052943 | **TENT5B** | terminal nucleotidyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115584 | NM_001258411,NM | **SLC5A11** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115650 | NM_052945 | **TNFRSF13C** | TNF receptor superfamil | protein_coding | 1 | 1 | 2 | 2 | 1.129 |
| 115653 | NM_153443 | **KIR3DL3** | killer cell immunoglobuli | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 115677 | NM_001039724,NM | **NOSTRIN** | nitric oxide synthase traff | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 115701 | NM_052947 | **ALPK2** | alpha kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115703 | NM_001172630,NM | **ARHGAP33** | Rho GTPase activating p | protein_coding | 3 | 4 | 4 | 5 | 1.360 |
| 115704 | NM_001159944,NM | **EVI5L** | ecotropic viral integration | protein_coding | 0 | 0 | 1 | 1 | 1.143 |
| 115708 | NM_152307 | **TRMT61A** | tRNA methyltransferase | protein_coding | 35 | 40 | 36 | 41 | 1.149 |
| 115727 | NM_001146202,NM | **RASGRP4** | RAS guanyl releasing pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115749 | NM_001099676,NM | **C12orf56** | chromosome 12 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115752 | NM_001143688,NM | **DIS3L** | DIS3 like exosome 3'-5' e | protein_coding | 19 | 21 | 20 | 22 | 1.120 |
| 115761 | NM_138450,XM_00 | **ARL11** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 115795 | NM_001164839,NM | **FANCD2OS** | FANCD2 opposite strand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115811 | NM_001330452,NM | **IQCD** | IQ motif containing D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115817 | NM_001136050,NM | **DHRS1** | dehydrogenase/reductas | protein_coding | 11 | 10 | 12 | 11 | 0.888 |
| 115825 | NM_052950,XM_01 | **WDFY2** | WD repeat and FYVE do | protein_coding | 4 | 2 | 5 | 3 | 0.750 |
| 115827 | NM_001317915,NM | **RAB3C** | RAB3C, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115861 | NM_138454 | **NXNL1** | nucleoredoxin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115908 | NM_001256099,NM | **CTHRC1** | collagen triple helix repe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115939 | NM_001001410 | **TSR3** | TSR3 ribosome maturati | protein_coding | 71 | 86 | 72 | 87 | 1.203 |
| 115948 | NM_001302453,NM | **CCDC151** | coiled-coil domain contai | protein_coding | 1 | 0 | 2 | 1 | 0.863 |
| 115950 | NM_138783 | **ZNF653** | zinc finger protein 653 | protein_coding | 7 | 7 | 8 | 8 | 1.081 |
| 115992 | NM_001171815,NM | **RNF166** | ring finger protein 166 | protein_coding | 39 | 43 | 40 | 44 | 1.113 |
| 116028 | NM_152308,NR_13 | **RMI2** | RecQ mediated genome | protein_coding | 9 | 10 | 10 | 11 | 1.171 |
| 116039 | NM_001142462,NM | **OSR2** | odd-skipped related tran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116064 | NM_001099678 | **LRRC58** | leucine rich repeat conta | protein_coding | 54 | 44 | 55 | 45 | 0.827 |
| 116068 | NM_001286812,NM | **LYSMD3** | LysM domain containing | protein_coding | 28 | 23 | 29 | 24 | 0.827 |
| 116071 | NM_001300807,NM | **BATF2** | basic leucine zipper ATF | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 116085 | NM_001276326,NM | **SLC22A12** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116092 | NM_052951,XM_02 | **DNTTIP1** | deoxynucleotidyltransfer | protein_coding | 68 | 68 | 69 | 69 | 1.010 |
| 116093 | NR_161166 | **DIRC1** | disrupted in renal carcin | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 116113 | NM_001012426,NM | **FOXP4** | forkhead box P4 | protein_coding | 27 | 26 | 28 | 27 | 0.966 |
| 116115 | NM_001314033,NM | **ZNF526** | zinc finger protein 526 | protein_coding | 18 | 18 | 19 | 19 | 1.009 |
| 116123 | NR_002925 | **FMO9P** | flavin containing dimethy | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 116135 | NM_001317808,NM | **LRRC3B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116138 | NM_057161,NR_04 | **KLHDC3** | kelch domain containing | protein_coding | 125 | 131 | 126 | 132 | 1.042 |
| 116143 | NM_001256476,NM | **WDR92** | WD repeat domain 92 | protein_coding | 23 | 21 | 24 | 22 | 0.894 |
| 116149 | gene-RPL12P4 | **RPL12P4** | ribosomal protein L12 ps | pseudogene | 1 | 1 | 2 | 2 | 1.053 |
| 116150 | NM_138459 | **NUS1** | NUS1 dehydrodolichyl di | protein_coding | 56 | 50 | 57 | 51 | 0.881 |
| 116151 | NM_080821 | **FAM210B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116154 | NM_001199505,NM | **PHACTR3** | phosphatase and actin re | protein_coding | 0 | 0 | 1 | 1 | 0.900 |
| 116159 | NM_001320768,NM | **CYYR1** | cysteine and tyrosine ric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116173 | NM_001037288,NM | **CMTM5** | CKLF like MARVEL trans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116179 | NM_052955,XM_01 | **TGM7** | transglutaminase 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116211 | NM_001204897,NM | **TM4SF19** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116224 | NM_138333 | **FAM122A** | family with sequence sim | protein_coding | 13 | 12 | 14 | 13 | 0.933 |
| 116225 | NM_138462,XM_00 | **ZMYND19** | zinc finger MYND-type co | protein_coding | 52 | 55 | 53 | 56 | 1.051 |
| 116228 | NM_001312871,NM | **COX20** | cytochrome c oxidase as | protein_coding | 45 | 43 | 46 | 44 | 0.941 |
| 116236 | NM_198147 | **ABHD15** | abhydrolase domain con | protein_coding | 4 | 4 | 5 | 5 | 1.095 |
| 116238 | NM_001160407,NM | **TLCD1** | TLC domain containing 1 | protein_coding | 2 | 2 | 3 | 3 | 0.987 |
| 116254 | NM_138785 | **GINM1** | glycoprotein integral mer | protein_coding | 22 | 22 | 23 | 23 | 0.976 |
| 116255 | NM_058165 | **MOGAT1** | monoacylglycerol O-acyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116285 | NM_001318890,NM | **ACSM1** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116328 | NM_001195639,NM | **C8orf34** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116337 | NM_052959 | **PANX3** | pannexin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116349 | NR_126522 | **EXOC3-AS1** | EXOC3 antisense RNA 1 | lncRNA | 2 | 3 | 3 | 4 | 1.225 |
| 116362 | NM_052960,NR_13 | **RBP7** | retinol binding protein 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116369 | NM_001193476,NM | **SLC26A8** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 1.092 |
| 116372 | NM_001077427,NM | **LYPD1** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116379 | NM_052962,NM_18 | **IL22RA2** | interleukin 22 receptor su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116412 | NM_138466,NR_04 | **ZNF837** | zinc finger protein 837 | protein_coding | 0 | 0 | 1 | 1 | 1.102 |
| 116437 | NR_026670 | **LINC01257** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 116441 | NM_001184723,NM | **TM4SF18** | transmembrane 4 L six fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116442 | NM_171998 | **RAB39B** | RAB39B, member RAS c | protein_coding | 12 | 10 | 13 | 11 | 0.830 |
| 116443 | NM_133445,XM_01 | **GRIN3A** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116444 | NM_138690,XM_01 | **GRIN3B** | glutamate ionotropic rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116447 | NM_001258446,NM | **TOP1MT** | DNA topoisomerase I mit | protein_coding | 6 | 5 | 7 | 6 | 0.873 |
| 116448 | NM_138983 | **OLIG1** | oligodendrocyte transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116449 | NM_052964,XM_01 | **CLNK** | cytokine dependent hem | protein_coding | 0 | 0 | 1 | 1 | 0.945 |
| 116461 | NM_001127394,NM | **TSEN15** | tRNA splicing endonucle | protein_coding | 95 | 88 | 96 | 89 | 0.930 |
| 116496 | NM_052966,XM_01 | **NIBAN1** | niban apoptosis regulato | protein_coding | 60 | 45 | 61 | 46 | 0.743 |
| 116511 | NM_052967 | **MAS1L** | MAS1 proto-oncogene lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116512 | NM_198923 | **MRGPRD** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116519 | NM_001166598,NM | **APOA5** | apolipoprotein A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116534 | NM_001039165 | **MRGPRE** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116535 | NM_001098515,NM | **MRGPRF** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116540 | NM_053050 | **MRPL53** | mitochondrial ribosomal | protein_coding | 146 | 156 | 147 | 157 | 1.063 |
| 116541 | NM_172251 | **MRPL54** | mitochondrial ribosomal | protein_coding | 91 | 104 | 92 | 105 | 1.143 |
| 116729 | NM_001007533 | **PPP1R27** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116730 | gene-RPL37P2 | **RPL37P2** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 116828 | NR_026928 | **N4BP2L2-IT2** | N4BPL2 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.044 |
| 116832 | NM_052969 | **RPL39L** | ribosomal protein L39 like | protein_coding | 34 | 34 | 35 | 35 | 0.996 |
| 116835 | NM_001197327,NM | **HSPA12B** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116840 | NM_001037144,NM | **CNTROB** | centrobin, centriole dupli | protein_coding | 21 | 22 | 22 | 23 | 1.040 |
| 116841 | NM_001323930,NM | **SNAP47** | synaptosome associated | protein_coding | 27 | 28 | 28 | 29 | 1.072 |
| 116842 | NM_052971 | **LEAP2** | liver enriched antimicrobi | protein_coding | 2 | 3 | 3 | 4 | 1.494 |
| 116843 | NM_052831,XM_01 | **SLC18B1** | solute carrier family 18 m | protein_coding | 9 | 7 | 10 | 8 | 0.843 |
| 116844 | NM_052972 | **LRG1** | leucine rich alpha-2-glyc | protein_coding | 7 | 7 | 8 | 8 | 1.007 |
| 116931 | NM_053002,XM_00 | **MED12L** | mediator complex subun | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116933 | NR_024066 | **CLRN1-AS1** | CLRN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 116935 | gene-RPL3P2 | **RPL3P2** | ribosomal protein L3 pse | pseudogene | 0 | 1 | 1 | 2 | 1.226 |
| 116936 | NR_000026 | **SNORD139** | small nucleolar RNA, C/I | snoRNA | 22 | 20 | 23 | 21 | 0.899 |
| 116937 | NR_000027 | **SNORD83A** | small nucleolar RNA, C/I | snoRNA | 3 | 3 | 4 | 4 | 0.954 |
| 116938 | NR_000028 | **SNORD83B** | small nucleolar RNA, C/I | snoRNA | 8 | 5 | 9 | 6 | 0.683 |
| 116966 | NM_001350727,NM | **WDR17** | WD repeat domain 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116969 | NM_001079536,NM | **ART5** | ADP-ribosyltransferase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116983 | NM_030649,XM_00 | **ACAP3** | ArfGAP with coiled-coil, a | protein_coding | 7 | 8 | 8 | 9 | 1.101 |
| 116984 | NM_015230,NR_14 | **ARAP2** | ArfGAP with RhoGAP do | protein_coding | 37 | 30 | 38 | 31 | 0.824 |
| 116985 | NM_001040118,NM | **ARAP1** | ArfGAP with RhoGAP do | protein_coding | 33 | 30 | 34 | 31 | 0.912 |
| 116986 | NM_001122772,NM | **AGAP2** | ArfGAP with GTPase dor | protein_coding | 30 | 27 | 31 | 28 | 0.919 |
| 116987 | NM_001037131,NM | **AGAP1** | ArfGAP with GTPase dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116988 | NM_001042535,NM | **AGAP3** | ArfGAP with GTPase dor | protein_coding | 29 | 27 | 30 | 28 | 0.930 |
| 117143 | NM_053053 | **TADA1** | transcriptional adaptor 1 | protein_coding | 22 | 23 | 23 | 24 | 1.046 |
| 117144 | NM_053054,XR_00 | **CATSPER1** | cation channel sperm as | protein_coding | 0 | 0 | 1 | 1 | 1.081 |
| 117145 | NM_053055,XM_01 | **THEM4** | thioesterase superfamily | protein_coding | 20 | 19 | 21 | 20 | 0.990 |
| 117151 | gene-SLC31A1P1 | **SLC31A1P1** | solute carrier family 31 m | pseudogene | 0 | 0 | 1 | 1 | 1.004 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 117154 | NM_001139514,NM | **DACH2** | dachshund family transc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117155 | NM_001282309,NM | **CATSPER2** | cation channel sperm as | protein_coding | 1 | 1 | 2 | 2 | 0.952 |
| 117156 | NM_054023 | **SCGB3A2** | secretoglobin family 3A r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117157 | NM_053282 | **SH2D1B** | SH2 domain containing 1 | protein_coding | 93 | 81 | 94 | 82 | 0.873 |
| 117159 | NM_001300854,NM | **DCD** | dermcidin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117166 | NM_053284 | **WFIKKN1** | WAP, follistatin/kazal, im | protein_coding | 0 | 0 | 1 | 1 | 1.152 |
| 117177 | NM_001024647,NM | **RAB3IP** | RAB3A interacting protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117178 | NM_001166293,NM | **SSX2IP** | SSX family member 2 int | protein_coding | 68 | 55 | 69 | 56 | 0.813 |
| 117194 | NM_001303615,NM | **MRGPRX2** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117195 | NM_001370464,NM | **MRGPRX3** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117196 | NM_054032 | **MRGPRX4** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117245 | NM_001146728,NM | **PLAAT5** | phospholipase A and ac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117246 | NM_017647,XM_02 | **FTSJ3** | FtsJ RNA 2'-O-methyltra | protein_coding | 129 | 131 | 130 | 132 | 1.012 |
| 117247 | NM_018593,XM_00 | **SLC16A10** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117248 | NM_001319051,NM | **GALNT15** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 117283 | NM_001142883,NM | **IP6K3** | inositol hexakisphosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117285 | NM_054112 | **DEFB118** | defensin beta 118 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117286 | NM_001300922,NM | **CIB3** | calcium and integrin binc | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 117289 | NM_001278733,NM | **TAGAP** | T cell activation RhoGTP | protein_coding | 29 | 29 | 30 | 30 | 0.989 |
| 117531 | NM_138691,XM_01 | **TMC1** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117532 | NM_080751,XM_00 | **TMC2** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117579 | NM_001311197,NM | **RLN3** | relaxin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117581 | NM_001271893,NM | **TWIST2** | twist family bHLH transcr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117583 | NM_001302769,NM | **PARD3B** | par-3 family cell polarity | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 117584 | NM_001017368,NR | **RFFL** | ring finger and FYVE like | protein_coding | 13 | 12 | 14 | 13 | 0.930 |
| 117608 | NM_058230 | **ZNF354B** | zinc finger protein 354B | protein_coding | 0 | 0 | 1 | 1 | 0.851 |
| 117854 | NM_001003818,NM | **TRIM6** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118421 | NR_026552,NR_02 | **LINC00161** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 118424 | NM_058167,NM_19 | **UBE2J2** | ubiquitin conjugating en: | protein_coding | 81 | 77 | 82 | 78 | 0.946 |
| 118425 | NR_026555 | **PCAT4** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 118426 | NM_001300742,NM | **BORCS5** | BLOC-1 related complex | protein_coding | 2 | 2 | 3 | 3 | 1.099 |
| 118427 | NM_001288821,NM | **OLFM3** | olfactomedin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118429 | NM_001145794,NM | **ANTXR2** | ANTXR cell adhesion mc | protein_coding | 11 | 14 | 12 | 15 | 1.179 |
| 118430 | NM_058173 | **MUCL1** | mucin like 1 | protein_coding | 1 | 0 | 2 | 1 | 0.615 |
| 118432 | NR_002778 | **RPL29P2** | ribosomal protein L29 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 118433 | NR_000029,NR_02 | **RPL23AP7** | ribosomal protein L23a p | transcribed_pseu | 21 | 19 | 22 | 20 | 0.874 |
| 118442 | NM_080865 | **GPR62** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118460 | NM_058219 | **EXOSC6** | exosome component 6 | protein_coding | 24 | 23 | 25 | 24 | 0.982 |
| 118461 | NM_001135196,XM | **C10orf71** | chromosome 10 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118471 | NM_001145201,NM | **PRAP1** | proline rich acidic protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118472 | NM_145806,NR_13 | **ZNF511** | zinc finger protein 511 | protein_coding | 38 | 43 | 39 | 44 | 1.133 |
| 118487 | NM_203298 | **CHCHD1** | coiled-coil-helix-coiled-cc | protein_coding | 69 | 65 | 70 | 66 | 0.948 |
| 118490 | NM_001024593 | **MSS51** | MSS51 mitochondrial tra | protein_coding | 1 | 1 | 2 | 2 | 1.054 |
| 118491 | NM_001350933,NM | **CFAP70** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.137 |
| 118611 | NM_001004298,NM | **C10orf90** | chromosome 10 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118663 | NM_001318189,NM | **BTBD16** | BTB domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 118670 | NM_001029888,XM | **FAM24A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118672 | NM_001363531,NM | **PSTK** | phosphoseryl-tRNA kina | protein_coding | 9 | 7 | 10 | 8 | 0.791 |
| 118738 | NM_001346932,NM | **ZNF488** | zinc finger protein 488 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118788 | NM_152309,XM_00 | **PIK3AP1** | phosphoinositide-3-kinas | protein_coding | 79 | 72 | 80 | 73 | 0.919 |
| 118812 | NM_001098831,NM | **MORN4** | MORN repeat containing | protein_coding | 5 | 6 | 6 | 7 | 1.292 |
| 118813 | NM_001002261,NM | **ZFYVE27** | zinc finger FYVE-type co | protein_coding | 28 | 28 | 29 | 29 | 0.998 |
| 118856 | NM_147191 | **MMP21** | matrix metallopeptidase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118881 | NM_144589,XM_02 | **COMTD1** | catechol-O-methyltransfe | protein_coding | 13 | 17 | 14 | 18 | 1.312 |
| 118924 | NM_001347712,NM | **FRA10AC1** | FRA10A associated CGC | protein_coding | 9 | 7 | 10 | 8 | 0.865 |
| 118932 | NM_144590 | **ANKRD22** | ankyrin repeat domain 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 118945 | gene-CTSLP1 | **CTSLP1** | cathepsin L pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 118980 | NM_001350989,NM | **SFXN2** | sideroflexin 2 | protein_coding | 18 | 23 | 19 | 24 | 1.243 |
| 118987 | NM_173791,XM_00 | **PDZD8** | PDZ domain containing 8 | protein_coding | 10 | 8 | 11 | 9 | 0.831 |
| 119016 | NM_001276343,NM | **AGAP4** | ArfGAP with GTPase dor | protein_coding | 2 | 1 | 3 | 2 | 0.653 |
| 119032 | NM_001136200,NM | **BORCS7** | BLOC-1 related complex | protein_coding | 12 | 9 | 13 | 10 | 0.733 |
| 119180 | NM_183058,XM_01 | **LYZL2** | lysozyme like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119358 | gene-SNRPD2P1 | **SNRPD2P1** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 119369 | NR_002779 | **NUDT9P1** | nudix hydrolase 9 pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.070 |
| 119385 | NM_133447 | **AGAP11** | ArfGAP with GTPase dor | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 119391 | NM_001191013,NM | **GSTO2** | glutathione S-transferas | protein_coding | 0 | 0 | 1 | 1 | 0.859 |
| 119392 | NM_001002759,NM | **SFR1** | SWI5 dependent homolc | protein_coding | 21 | 21 | 22 | 22 | 1.012 |
| 119395 | NM_001129742 | **CALHM3** | calcium homeostasis mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119437 | NR_044994 | **CTAGE7P** | CTAGE family member 7 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 119467 | NM_152311,XM_01 | **CLRN3** | clarin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119504 | NM_001242546,NM | **ANAPC16** | anaphase promoting con | protein_coding | 45 | 43 | 46 | 44 | 0.943 |
| 119548 | NM_001011709,XM | **PNLIPRP3** | pancreatic lipase related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119559 | NM_213649,NR_11 | **SFXN4** | sideroflexin 4 | protein_coding | 87 | 81 | 88 | 82 | 0.931 |
| 119587 | NM_198148,XM_00 | **CPXM2** | carboxypeptidase X, M14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119678 | NM_001005164 | **OR52E2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119679 | NM_001001916 | **OR52J3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119682 | NM_001004755 | **OR51L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119687 | NM_001004749 | **OR51A7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119692 | NM_001004758 | **OR51S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119694 | NM_001004753 | **OR51F2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119695 | NM_001005177 | **OR52R1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119710 | NM_001276722,NM | **IFTAP** | intraflagellar transport as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119722 | gene-KRT18P14 | **KRT18P14** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 119749 | NM_001004703 | **OR4C46** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119764 | NM_001004727 | **OR4X2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119765 | NM_001005470 | **OR4B1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119772 | NM_001004137 | **OR52M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 119774 | NM_001005172 | **OR52K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120065 | NM_153444 | **OR5P2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120066 | NM_153445 | **OR5P3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120071 | NM_001300721,NM | **LARGE2** | LARGE xylosyl- and gluc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120103 | NM_001286139,NM | **SLC36A4** | solute carrier family 36 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120114 | NM_001008781,NM | **FAT3** | FAT atypical cadherin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120146 | NM_001136486,XM | **TRIM64** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120224 | NM_001331210,NM | **TMEM45B** | transmembrane protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120227 | NM_001377214,NM | **CYP2R1** | cytochrome P450 family | protein_coding | 17 | 18 | 18 | 19 | 1.013 |
| 120237 | NM_001029865 | **DBX1** | developing brain homeot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120318 | gene-RPS6P17 | **RPS6P17** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120321 | gene-CSNK1A1P2 | **CSNK1A1P2** | casein kinase 1 alpha 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120364 | gene-HNRNPA1P60 | **HNRNPA1P60** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 120376 | NM_001136105,NM | **COLCA2** | colorectal cancer associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120379 | NM_001082619,NM | **PIH1D2** | PIH1 domain containing | protein_coding | 1 | 1 | 2 | 2 | 0.822 |
| 120400 | NM_001367953,NM | **NXPE1** | neurexophilin and PC-es | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120406 | NM_182495,XM_01 | **NXPE2** | neurexophilin and PC-es | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 120425 | NM_001098526,NM | **JAML** | junction adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 120449 | gene-CTBP2P6 | **CTBP2P6** | CTBP2 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120526 | NM_181706,XR_00 | **DNAJC24** | DnaJ heat shock protein | protein_coding | 32 | 29 | 33 | 30 | 0.925 |
| 120528 | gene-CYCSP25 | **CYCSP25** | CYCS pseudogene 25 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120534 | NM_152316,XM_00 | **ARL14EP** | ADP ribosylation factor li | protein_coding | 38 | 34 | 39 | 35 | 0.905 |
| 120586 | NM_001003750 | **OR8I2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120775 | NM_001004684 | **OR2D3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120776 | NM_003700 | **OR2D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120787 | NM_001005178 | **OR52W1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120793 | NM_001005179 | **OR56A4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120796 | NM_001001917 | **OR56A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120824 | gene-TRIM51GP | **TRIM51GP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120863 | NM_001319310,NM | **DEPDC4** | DEP domain containing 4 | protein_coding | 1 | 1 | 2 | 2 | 0.942 |
| 120872 | gene-RPL7P38 | **RPL7P38** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 120892 | NM_198578,XM_00 | **LRRK2** | leucine rich repeat kinas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 120935 | NM_182496,XM_00 | **CCDC38** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.171 |
| 120939 | NM_001079815,NM | **TMEM52B** | transmembrane protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121006 | NM_001145475,XM | **FAM186A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121014 | gene-TUBB8P5 | **TUBB8P5** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121053 | NM_152318 | **C12orf45** | chromosome 12 open re | protein_coding | 2 | 2 | 3 | 3 | 0.913 |
| 121054 | gene-KRT18P20 | **KRT18P20** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121129 | NM_001258285 | **OR2AP1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 121130 | NM_206899 | **OR10P1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121131 | gene-PSMB3P1 | **PSMB3P1** | proteasome subunit beta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121214 | NM_148897 | **SDR9C7** | short chain dehydrogena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121227 | NM_001136051,NM | **LRIG3** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121256 | NM_133448 | **TMEM132D** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121260 | NM_145648,XM_01 | **SLC15A4** | solute carrier family 15 m | protein_coding | 11 | 10 | 12 | 11 | 0.927 |
| 121268 | NM_001303126,NM | **RHEBL1** | RHEB like 1 | protein_coding | 32 | 30 | 33 | 31 | 0.963 |
| 121273 | NM_152319,XM_00 | **C12orf54** | chromosome 12 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121274 | NM_001172681,NM | **ZNF641** | zinc finger protein 641 | protein_coding | 6 | 6 | 7 | 7 | 0.966 |
| 121275 | NM_001004134 | **OR10AD1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121278 | NM_173353,XR_00 | **TPH2** | tryptophan hydroxylase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121340 | NM_001173467,NM | **SP7** | Sp7 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121355 | NM_144594,XM_01 | **GTSF1** | gametocyte specific facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121364 | NM_001005280 | **OR10A7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121391 | NM_175053 | **KRT74** | keratin 74 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121441 | NM_001135175,NM | **NEDD1** | NEDD1 gamma-tubulin r | protein_coding | 29 | 24 | 30 | 25 | 0.828 |
| 121456 | NR_033801 | **SLC9A7P1** | solute carrier family 9 me | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 121457 | NM_153687,NM_20 | **IKBIP** | IKBKB interacting protein | protein_coding | 48 | 39 | 49 | 40 | 0.816 |
| 121498 | gene-LDHAL6CP | **LDHAL6CP** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121504 | NM_175054 | **H4-16** | H4 histone 16 | protein_coding | 3 | 1 | 4 | 2 | 0.549 |
| 121506 | NM_001300784,NM | **ERP27** | endoplasmic reticulum p | protein_coding | 1 | 1 | 2 | 2 | 0.903 |
| 121512 | NM_001304480,NM | **FGD4** | FYVE, RhoGEF and PH | protein_coding | 5 | 4 | 6 | 5 | 0.771 |
| 121536 | NM_001114176,NM | **AEBP2** | AE binding protein 2 | protein_coding | 21 | 18 | 22 | 19 | 0.845 |
| 121549 | NM_203436 | **ASCL4** | achaete-scute family bHI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121551 | NM_001017523,NM | **BTBD11** | BTB domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121599 | NM_152323,XM_00 | **SPIC** | Spi-C transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121601 | NM_001286615,NM | **ANO4** | anoctamin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121642 | NM_001001655,NM | **ALKBH2** | alkB homolog 2, alpha-ke | protein_coding | 32 | 28 | 33 | 29 | 0.896 |
| 121643 | NM_213596,XM_01 | **FOXN4** | forkhead box N4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 121665 | NM_139015,XM_01 | **SPPL3** | signal peptide peptidase | protein_coding | 19 | 19 | 20 | 20 | 0.998 |
| 121727 | gene-PEX12P1 | **PEX12P1** | peroxisomal biogenesis f | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121793 | NM_001303133,NM | **TEX29** | testis expressed 29 | protein_coding | 0 | 0 | 1 | 1 | 0.930 |
| 121838 | NR_026955 | **NRAD1** | non-coding RNA in the a | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 121906 | gene-PSMA6P4 | **PSMA6P4** | proteasome subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121916 | gene-CYCSP35 | **CYCSP35** | CYCS pseudogene 35 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 121952 | NR_026965 | **METTL21EP** | methyltransferase like 21 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.946 |
| 121981 | gene-PPIAP26 | **PPIAP26** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122011 | NM_145203 | **CSNK1A1L** | casein kinase 1 alpha 1 l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122038 | gene-TOMM22P3 | **TOMM22P3** | TOMM22 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122042 | NM_001166058,NM | **RXFP2** | relaxin family peptide rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122046 | NM_001353388,NM | **TEX26** | testis expressed 26 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122060 | NM_001040153,NM | **SLAIN1** | SLAIN motif family memt | protein_coding | 17 | 15 | 18 | 16 | 0.904 |
| 122145 | gene-RIOK3P1 | **RIOK3P1** | RIO kinase 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122183 | NM_198441 | **PRR20A** | proline rich 20A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122199 | gene-LGMNP1 | **LGMNP1** | legumain pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122258 | NM_145248,XM_01 | **SPACA7** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122335 | gene-PPIAP24 | **PPIAP24** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122402 | NM_153046,XM_00 | **TDRD9** | tudor domain containing | protein_coding | 2 | 1 | 3 | 2 | 0.699 |
| 122409 | gene-RPL21P12 | **RPL21P12** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122416 | NM_001348651,NM | **ANKRD9** | ankyrin repeat domain 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122481 | NM_001350888,NM | **AK7** | adenylate kinase 7 | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 122509 | NM_145249,NM_20 | **IFI27L1** | interferon alpha inducibl | protein_coding | 33 | 35 | 34 | 36 | 1.059 |
| 122525 | NM_001017923,XM | **C14orf28** | chromosome 14 open rea | protein_coding | 1 | 0 | 2 | 1 | 0.815 |
| 122552 | gene-PPIAP4 | **PPIAP4** | peptidylprolyl isomerase | pseudogene | 1 | 0 | 2 | 1 | 0.654 |
| 122553 | NM_001079537,NM | **TRAPPC6B** | trafficking protein particl | protein_coding | 32 | 28 | 33 | 29 | 0.872 |
| 122589 | gene-RPLP0P3 | **RPLP0P3** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122592 | gene-KRT18P6 | **KRT18P6** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122616 | NM_001364170,NM | **CLBA1** | clathrin binding box of af | protein_coding | 1 | 1 | 2 | 2 | 1.146 |
| 122618 | NM_001308174,NM | **PLD4** | phospholipase D family r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122622 | NM_001320424,NM | **ADSS1** | adenylosuccinate syntha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122631 | gene-CEND1P1 | **CEND1P1** | cell cycle exit and neuro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122651 | NM_145250 | **RNASE11** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122664 | NM_173846,XM_00 | **TPPP2** | tubulin polymerization pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122665 | NM_138331 | **RNASE8** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122704 | NM_001318870,NM | **MRPL52** | mitochondrial ribosomal | protein_coding | 115 | 117 | 116 | 118 | 1.021 |
| 122706 | NM_001099780 | **PSMB11** | proteasome subunit beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122740 | NM_001004712 | **OR4K14** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122742 | NM_001004717 | **OR4L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122748 | NM_001004480 | **OR11H6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122769 | NM_152329,NM_20 | **LRR1** | leucine rich repeat protei | protein_coding | 83 | 82 | 84 | 83 | 0.994 |
| 122773 | NM_172193,XM_01 | **KLHDC1** | kelch domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122786 | NM_001042481,NM | **FRMD6** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.937 |
| 122809 | NM_080867,NM_19 | **SOCS4** | suppressor of cytokine si | protein_coding | 29 | 23 | 30 | 24 | 0.814 |
| 122830 | NM_001011713 | **NAA30** | N-alpha-acetyltransferas | protein_coding | 15 | 14 | 16 | 15 | 0.926 |
| 122837 | gene-UBA52P3 | **UBA52P3** | ubiquitin A-52 residue rib | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122842 | gene-PPIAP5 | **PPIAP5** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122867 | gene-COX4I1P1 | **COX4I1P1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122876 | NM_145171 | **GPHB5** | glycoprotein hormone su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122888 | gene-PTBP1P | **PTBP1P** | polypyrimidine tract bind | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122942 | gene-FXNP1 | **FXNP1** | frataxin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122945 | NM_001113475,XM | **NOXRED1** | NADP dependent oxidore | protein_coding | 0 | 0 | 1 | 1 | 1.182 |
| 122950 | gene-CYCSP1 | **CYCSP1** | CYCS pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 122953 | NM_001135047,NM | **JDP2** | Jun dimerization protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 122961 | NM_001272007,NM | **ISCA2** | iron-sulfur cluster assem | protein_coding | 16 | 20 | 17 | 21 | 1.260 |
| 122970 | NM_152331,XR_00 | **ACOT4** | acyl-CoA thioesterase 4 | protein_coding | 1 | 1 | 2 | 2 | 0.965 |
| 123016 | NM_001288781,NM | **TTC8** | tetratricopeptide repeat c | protein_coding | 3 | 3 | 4 | 4 | 0.946 |
| 123036 | NM_001128595,NM | **TC2N** | tandem C2 domains, nuc | protein_coding | 9 | 9 | 10 | 10 | 0.959 |
| 123041 | NM_001378620,NM | **SLC24A4** | solute carrier family 24 m | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 123096 | NM_001039355,NM | **SLC25A29** | solute carrier family 25 m | protein_coding | 3 | 7 | 4 | 8 | 1.954 |
| 123099 | NM_206918,XM_00 | **DEGS2** | delta 4-desaturase, sphi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123103 | NM_001109997,NM | **KLHL33** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123169 | NM_001286430,NM | **LEO1** | LEO1 homolog, Paf1/RN | protein_coding | 80 | 73 | 81 | 74 | 0.917 |
| 123207 | NM_001160113,NM | **C15orf40** | chromosome 15 open rea | protein_coding | 11 | 13 | 12 | 14 | 1.173 |
| 123228 | NM_001166340,NM | **SENP8** | SUMO peptidase family i | protein_coding | 1 | 1 | 2 | 2 | 1.118 |
| 123263 | NM_139242,XM_00 | **MTFMT** | mitochondrial methionyl- | protein_coding | 27 | 28 | 28 | 29 | 1.028 |
| 123264 | NM_178859,XM_00 | **SLC51B** | solute carrier family 51 s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123283 | NM_152334,XM_00 | **TARS3** | threonyl-tRNA synthetas | protein_coding | 3 | 3 | 4 | 4 | 0.969 |
| 123346 | NM_001350932,XM | **HIGD2B** | HIG1 hypoxia inducible d | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 123355 | NM_001284400,NM | **LRRC28** | leucine rich repeat conta | protein_coding | 10 | 9 | 11 | 10 | 0.869 |
| 123591 | NM_152335,XM_00 | **TMEM266** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 123606 | NM_001142275,NM | **NIPA1** | NIPA magnesium transp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123624 | NM_152336,XM_01 | **AGBL1** | ATP/GTP binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123688 | NM_001013619,NM | **HYKK** | hydroxylysine kinase | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 123720 | NM_001080435,XM | **WHAMM** | WASP homolog associat | protein_coding | 12 | 11 | 13 | 12 | 0.910 |
| 123722 | NM_001007122,NM | **FSD2** | fibronectin type III and SI | protein_coding | 0 | 0 | 1 | 1 | 1.115 |
| 123745 | NM_001206670,XM | **PLA2G4E** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123775 | NM_001100873,NM | **C16orf46** | chromosome 16 open rea | protein_coding | 1 | 1 | 2 | 2 | 1.114 |
| 123803 | NM_001270766,NM | **NTAN1** | N-terminal asparagine ar | protein_coding | 31 | 29 | 32 | 30 | 0.958 |
| 123811 | NM_001304497,NM | **CEP20** | centrosomal protein 20 | protein_coding | 100 | 83 | 101 | 84 | 0.831 |
| 123872 | NM_001318756,NM | **DNAAF1** | dynein axonemal assem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123876 | NM_001308169,NM | **ACSM2A** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123879 | NM_173475 | **DCUN1D3** | defective in cullin neddyl | protein_coding | 5 | 5 | 6 | 6 | 0.962 |
| 123904 | NM_001348682,NM | **NRN1L** | neuritin 1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 123920 | NM_001363918,NM | **CMTM3** | CKLF like MARVEL trans | protein_coding | 107 | 115 | 108 | 116 | 1.073 |
| 123970 | NM_144602 | **C16orf78** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124044 | NM_152339,XM_00 | **SPATA2L** | spermatogenesis associa | protein_coding | 2 | 2 | 3 | 3 | 1.086 |
| 124045 | NM_001271907,NM | **SPATA33** | spermatogenesis associa | protein_coding | 17 | 16 | 18 | 17 | 0.948 |
| 124056 | NM_001267721,NM | **NOXO1** | NADPH oxidase organize | protein_coding | 0 | 0 | 1 | 1 | 0.972 |
| 124093 | NM_001031737,NM | **CCDC78** | coiled-coil domain contai | protein_coding | 3 | 3 | 4 | 4 | 0.993 |
| 124149 | NR_026556 | **ANKRD26P1** | ankyrin repeat domain 26 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.008 |
| 124152 | NM_001305121,NM | **IQCK** | IQ motif containing K | protein_coding | 1 | 0 | 2 | 1 | 0.828 |
| 124199 | gene-EEF1A1P38 | **EEF1A1P38** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 124220 | NM_145252 | **ZG16B** | zymogen granule protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124221 | NR_026864 | **PRSS30P** | serine protease 30, pseu | transcribed_pseu | 8 | 7 | 9 | 8 | 0.890 |
| 124222 | NM_001284511,NM | **PAQR4** | progestin and adipoQ re | protein_coding | 28 | 29 | 29 | 30 | 1.052 |
| 124245 | NM_001294340,NM | **ZC3H18** | zinc finger CCCH-type co | protein_coding | 75 | 77 | 76 | 78 | 1.036 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 124274 | NM_001002911,NM | **GPR139** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124359 | NM_152342,XM_01 | **CDYL2** | chromodomain Y like 2 | protein_coding | 8 | 7 | 9 | 8 | 0.868 |
| 124401 | NM_001242929,NM | **ANKS3** | ankyrin repeat and steril | protein_coding | 9 | 9 | 10 | 10 | 1.035 |
| 124402 | NM_001330467,NM | **UBALD1** | UBA like domain contain | protein_coding | 12 | 15 | 13 | 16 | 1.240 |
| 124404 | NM_001154458,NM | **SEPTIN12** | septin 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124411 | NM_001130913 | **ZNF720** | zinc finger protein 720 | protein_coding | 8 | 8 | 9 | 9 | 1.038 |
| 124446 | NM_001083613,NM | **TMEM219** | transmembrane protein 2 | protein_coding | 43 | 47 | 44 | 48 | 1.093 |
| 124454 | NM_001083614,NM | **EARS2** | glutamyl-tRNA synthetas | protein_coding | 30 | 31 | 31 | 32 | 1.007 |
| 124460 | NM_001144972,NM | **SNX20** | sorting nexin 20 | protein_coding | 13 | 13 | 14 | 14 | 0.972 |
| 124491 | NM_001304996,NM | **TMEM170A** | transmembrane protein 1 | protein_coding | 20 | 17 | 21 | 18 | 0.876 |
| 124496 | gene-ATP5PBP7 | **ATP5PBP7** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 124512 | NM_001080510,NM | **METTL23** | methyltransferase like 2 | protein_coding | 31 | 37 | 32 | 38 | 1.198 |
| 124535 | NM_001080439,XM | **HSF5** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124538 | NM_001004707 | **OR4D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124540 | NM_001322250,NM | **MSI2** | musashi RNA binding pr | protein_coding | 41 | 32 | 42 | 33 | 0.796 |
| 124565 | NM_001037984,NM | **SLC38A10** | solute carrier family 38 m | protein_coding | 49 | 60 | 50 | 61 | 1.221 |
| 124583 | NM_001159772,NM | **CANT1** | calcium activated nucleo | protein_coding | 52 | 48 | 53 | 49 | 0.927 |
| 124590 | NM_001282489,NM | **USH1G** | USH1 protein network co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124599 | NM_174892,XM_00 | **CD300LB** | CD300 molecule like fam | protein_coding | 0 | 0 | 1 | 1 | 0.888 |
| 124602 | NM_153209,XM_00 | **KIF19** | kinesin family member 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124626 | NM_198844,NM_19 | **ZPBP2** | zona pellucida binding p | protein_coding | 0 | 0 | 1 | 1 | 0.923 |
| 124637 | NM_001330110,NM | **CYB5D1** | cytochrome b5 domain c | protein_coding | 5 | 5 | 6 | 6 | 0.955 |
| 124641 | NM_080822 | **OVCA2** | OVCA2 serine hydrolase | protein_coding | 19 | 20 | 20 | 21 | 1.055 |
| 124685 | gene-MYL6P5 | **MYL6P5** | myosin light chain 6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 124739 | NM_001267576,NM | **USP43** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124751 | NM_001304947,NM | **KRBA2** | KRAB-A domain containi | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 124773 | NM_181707,XM_00 | **C17orf64** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124783 | NM_152343 | **SPATA32** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124790 | NM_001303436,NM | **HEXIM2** | HEXIM P-TEFb complex | protein_coding | 12 | 10 | 13 | 11 | 0.887 |
| 124801 | NM_001369484,NM | **LSM12** | LSM12 homolog | protein_coding | 87 | 77 | 88 | 78 | 0.888 |
| 124808 | NM_001099225,NM | **CCDC43** | coiled-coil domain contai | protein_coding | 79 | 77 | 80 | 78 | 0.968 |
| 124817 | NM_001330222,NM | **CNTD1** | cyclin N-terminal domain | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 124842 | NM_001304438 | **TMEM132E** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124857 | NM_001330341,NM | **WFIKKN2** | WAP, follistatin/kazal, im | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124865 | gene-LOC124865 | **LOC124865** | MRT4 homolog, ribosom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 124871 | NR_034161 | **FLJ40194** | uncharacterized FLJ401 | lncRNA | 0 | 0 | 1 | 1 | 0.790 |
| 124872 | NM_001159387,NM | **B4GALNT2** | beta-1,4-N-acetyl-galact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124912 | NM_001317225,NM | **SPACA3** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124923 | NM_001174103 | **RSKR** | ribosomal protein S6 kin | protein_coding | 5 | 5 | 6 | 6 | 0.952 |
| 124925 | NM_001098635,NM | **SEZ6** | seizure related 6 homolo | protein_coding | 0 | 0 | 1 | 1 | 1.042 |
| 124930 | NM_152345,XM_00 | **ANKRD13B** | ankyrin repeat domain 1 | protein_coding | 9 | 11 | 10 | 12 | 1.104 |
| 124935 | NM_001284498,NM | **SLC43A2** | solute carrier family 43 m | protein_coding | 1 | 1 | 2 | 2 | 1.038 |
| 124936 | NM_001254755,NM | **CYB5D2** | cytochrome b5 domain c | protein_coding | 3 | 3 | 4 | 4 | 1.247 |
| 124944 | NM_001142798,NM | **C17orf49** | chromosome 17 open rea | protein_coding | 28 | 28 | 29 | 29 | 0.975 |
| 124961 | NM_153018 | **ZFP3** | ZFP3 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124974 | gene-TXNP4 | **TXNP4** | thioredoxin pseudogene | pseudogene | 1 | 1 | 2 | 2 | 0.959 |
| 124975 | NM_001122890,NM | **GGT6** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124976 | NM_001124758,XM | **SPNS2** | sphingolipid transporter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124989 | NM_001195192,NM | **EFCAB13** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 124995 | NM_145255,NM_14 | **MRPL10** | mitochondrial ribosomal | protein_coding | 56 | 61 | 57 | 62 | 1.076 |
| 124997 | NM_001163673,NM | **WDR81** | WD repeat domain 81 | protein_coding | 4 | 4 | 5 | 5 | 0.893 |
| 125050 | NR_001445 | **RN7SK** | RNA component of 7SK | snRNA | 5 | 6 | 6 | 7 | 1.237 |
| 125058 | NM_001271844,NM | **TBC1D16** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 125061 | NM_001010982,NM | **AFMID** | arylformamidase | protein_coding | 31 | 31 | 32 | 32 | 1.005 |
| 125111 | NM_152219 | **GJD3** | gap junction protein delt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125113 | NM_152349 | **KRT222** | keratin 222 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125115 | NM_182497,NR_16 | **KRT40** | keratin 40 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125144 | NR_027158,NR_02 | **SNHG29** | small nucleolar RNA hos | lncRNA | 440 | 431 | 441 | 432 | 0.979 |
| 125150 | NM_001042697,NM | **ZSWIM7** | zinc finger SWIM-type co | protein_coding | 8 | 11 | 9 | 12 | 1.281 |
| 125170 | NM_001144900,NM | **MIEF2** | mitochondrial elongation | protein_coding | 1 | 2 | 2 | 3 | 1.308 |
| 125206 | NM_001042450,NM | **SLC5A10** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125208 | gene-RPS2P46 | **RPS2P46** | ribosomal protein S2 pse | pseudogene | 173 | 189 | 174 | 190 | 1.094 |
| 125228 | NM_001098801,NM | **FAM210A** | family with sequence sim | protein_coding | 19 | 17 | 20 | 18 | 0.880 |
| 125242 | gene-KRT18P8 | **KRT18P8** | keratin 18 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 125336 | NM_001145472,NM | **LOXHD1** | lipoxygenase homology ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125371 | gene-RPL22P1 | **RPL22P1** | ribosomal protein L22 ps | pseudogene | 124 | 117 | 125 | 118 | 0.945 |
| 125476 | NM_001098817,NM | **INO80C** | INO80 complex subunit ( | protein_coding | 23 | 29 | 24 | 30 | 1.258 |
| 125488 | NM_001135993,NM | **TTC39C** | tetratricopeptide repeat c | protein_coding | 58 | 49 | 59 | 50 | 0.843 |
| 125704 | NM_001044369,XM | **DIPK1C** | divergent protein kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125875 | NM_152353,XM_01 | **CLDND2** | claudin domain containir | protein_coding | 37 | 41 | 38 | 42 | 1.100 |
| 125893 | NM_001031665,NM | **ZNF816** | zinc finger protein 816 | protein_coding | 2 | 2 | 3 | 3 | 0.930 |
| 125919 | NM_213598 | **ZNF543** | zinc finger protein 543 | protein_coding | 8 | 8 | 9 | 9 | 1.014 |
| 125931 | NM_001102597,NM | **CEACAM20** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125950 | NM_001366174,NM | **RAVER1** | ribonucleoprotein, PTB b | protein_coding | 139 | 139 | 140 | 140 | 1.001 |
| 125958 | NM_001005191 | **OR7D4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125962 | NM_001005192 | **OR7G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125963 | NM_001004456 | **OR1M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125965 | NM_001369798,NM | **COX6B2** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125972 | NM_145046 | **CALR3** | calreticulin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.831 |
| 125981 | NM_133492,XM_01 | **ACER1** | alkaline ceramidase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 125988 | NM_001308240,NM | **MICOS13** | mitochondrial contact sit | protein_coding | 122 | 136 | 123 | 137 | 1.111 |
| 125997 | NM_144614 | **MBD3L2** | methyl-CpG binding dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126003 | NM_001042461,NM | **TRAPPC5** | trafficking protein particl | protein_coding | 5 | 7 | 6 | 8 | 1.247 |
| 126006 | NM_001271830,NM | **PCP2** | Purkinje cell protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 126014 | NM_001282349,NM | **OSCAR** | osteoclast associated Ig- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126017 | NM_001004301 | **ZNF813** | zinc finger protein 813 | protein_coding | 0 | 0 | 1 | 1 | 1.071 |
| 126037 | gene-EEF1DP1 | **EEF1DP1** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.080 |
| 126052 | gene-TGIF1P1 | **TGIF1P1** | TGFB induced factor hor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126068 | NM_152355 | **ZNF441** | zinc finger protein 441 | protein_coding | 5 | 5 | 6 | 6 | 1.053 |
| 126069 | NM_152356,XM_00 | **ZNF491** | zinc finger protein 491 | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 126070 | NM_152357,XM_00 | **ZNF440** | zinc finger protein 440 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126074 | NM_175871 | **SWSAP1** | SWIM-type zinc finger 7 | protein_coding | 10 | 11 | 11 | 12 | 1.126 |
| 126075 | NM_001080503,XM | **CCDC159** | coiled-coil domain contai | protein_coding | 3 | 5 | 4 | 6 | 1.374 |
| 126119 | NM_001270639,NM | **JOSD2** | Josephin domain contain | protein_coding | 23 | 28 | 24 | 29 | 1.230 |
| 126123 | NM_001321449,NM | **IZUMO2** | IZUMO family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126129 | NM_001136052,NM | **CPT1C** | carnitine palmitoyltransfe | protein_coding | 0 | 0 | 1 | 1 | 0.857 |
| 126133 | NM_001145396,NM | **ALDH16A1** | aldehyde dehydrogenas | protein_coding | 27 | 30 | 28 | 31 | 1.115 |
| 126147 | NM_145807,XM_01 | **NTN5** | netrin 5 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 126170 | gene-PPIAP58 | **PPIAP58** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126204 | NM_001321057,NM | **NLRP13** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126205 | NM_001317000,NM | **NLRP8** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126206 | NM_153447 | **NLRP5** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126208 | NM_001002836,NM | **ZNF787** | zinc finger protein 787 | protein_coding | 39 | 47 | 40 | 48 | 1.212 |
| 126231 | NM_001172689,NM | **ZNF573** | zinc finger protein 573 | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 126235 | gene-RPS4XP21 | **RPS4XP21** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126242 | gene-AKR1B1P7 | **AKR1B1P7** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126248 | NM_173479,NR_13 | **WDR88** | WD repeat domain 88 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126259 | NM_001169126,NM | **TMIGD2** | transmembrane and imm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126272 | NM_152361 | **EID2B** | EP300 interacting inhibit | protein_coding | 10 | 8 | 11 | 9 | 0.796 |
| 126282 | NM_001167942,NM | **TNFAIP8L1** | TNF alpha induced prote | protein_coding | 6 | 6 | 7 | 7 | 0.926 |
| 126295 | NM_001319083,NM | **ZNF57** | zinc finger protein 57 | protein_coding | 6 | 7 | 7 | 8 | 1.057 |
| 126298 | NM_001007561,XM | **IRGQ** | immunity related GTPas | protein_coding | 5 | 5 | 6 | 6 | 0.968 |
| 126299 | NM_182498 | **ZNF428** | zinc finger protein 428 | protein_coding | 58 | 57 | 59 | 58 | 0.989 |
| 126306 | NM_144616,XM_01 | **JSRP1** | junctional sarcoplasmic r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126308 | NM_130807,XM_01 | **MOB3A** | MOB kinase activator 3A | protein_coding | 131 | 125 | 132 | 126 | 0.952 |
| 126321 | NM_001287529,NM | **MFSD12** | major facilitator superfan | protein_coding | 28 | 30 | 29 | 31 | 1.059 |
| 126326 | NM_133261,XM_00 | **GIPC3** | GIPC PDZ domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126328 | NM_001193375,NM | **NDUFA11** | NADH:ubiquinone oxidor | protein_coding | 284 | 290 | 285 | 291 | 1.019 |
| 126353 | NM_173481,NR_13 | **MISP** | mitotic spindle positionin | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 126364 | NM_145256,XM_00 | **LRRC25** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126370 | NM_001004713 | **OR1I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126374 | NM_001080436,XM | **WTIP** | WT1 interacting protein | protein_coding | 1 | 1 | 2 | 2 | 0.971 |
| 126375 | NM_175872 | **ZNF792** | zinc finger protein 792 | protein_coding | 4 | 4 | 5 | 5 | 0.952 |
| 126382 | NM_001300945,NM | **NR2C2AP** | nuclear receptor 2C2 ass | protein_coding | 52 | 56 | 53 | 57 | 1.076 |
| 126393 | NM_144617 | **HSPB6** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 126402 | NM_173482 | **CCDC105** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 126410 | NM_173483,XM_01: | **CYP4F22** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126432 | NM_001195833,NM | **RINL** | Ras and Rab interactor li | protein_coding | 21 | 22 | 22 | 23 | 1.036 |
| 126433 | NM_178820,XM_01 | **FBXO27** | F-box protein 27 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126506 | gene-SNX6P1 | **SNX6P1** | sorting nexin 6 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126520 | NM_001243079 | **PLK5** | polo like kinase 5 (inactiv | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126526 | NM_001256440,NM | **C19orf47** | chromosome 19 open rea | protein_coding | 28 | 30 | 29 | 31 | 1.068 |
| 126536 | NR_026828 | **LINC00661** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 126541 | NM_001004465 | **OR10H4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126549 | NM_001278443,NM | **ANKLE1** | ankyrin repeat and LEM | protein_coding | 1 | 0 | 2 | 1 | 0.734 |
| 126567 | NM_001136263,XM | **C2CD4C** | C2 calcium dependent d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126626 | NM_001323906,NM | **GABPB2** | GA binding protein trans | protein_coding | 9 | 7 | 10 | 8 | 0.799 |
| 126637 | NM_001008536 | **TCHHL1** | trichohyalin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126638 | NM_001122965 | **RPTN** | repetin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126661 | NM_001102601,NM | **CCDC163** | coiled-coil domain contai | protein_coding | 7 | 7 | 8 | 8 | 1.081 |
| 126668 | NM_001098475,NM | **TDRD10** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126669 | NM_001010846,NR | **SHE** | Src homology 2 domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126695 | NM_152365,XM_00 | **KDF1** | keratinocyte differentiatic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126731 | NM_145257,XM_02 | **CCSAP** | centriole, cilia and spindl | protein_coding | 4 | 3 | 5 | 4 | 0.877 |
| 126755 | NM_001010847 | **LRRC38** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126767 | NM_001103170,NR | **AADACL3** | arylacetamide deacetyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126789 | NM_001346116,NM | **PUSL1** | pseudouridine synthase | protein_coding | 36 | 37 | 37 | 38 | 1.024 |
| 126792 | NM_080605 | **B3GALT6** | beta-1,3-galactosyltransf | protein_coding | 19 | 20 | 20 | 21 | 1.066 |
| 126811 | gene-KRT8P21 | **KRT8P21** | keratin 8 pseudogene 21 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126820 | NM_001288563,NM | **DNAI3** | dynein axonemal interme | protein_coding | 0 | 0 | 1 | 1 | 1.057 |
| 126823 | NM_001007255,NM | **KLHDC9** | kelch domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.073 |
| 126826 | gene-TGIF2P1 | **TGIF2P1** | TGFB induced factor hor | pseudogene | 0 | 0 | 1 | 1 | 1.272 |
| 126859 | NM_144696,NR_07 | **AXDND1** | axonemal dynein light ch | protein_coding | 0 | 0 | 1 | 1 | 1.057 |
| 126860 | gene-LOC126860 | **LOC126860** | ArfGAP with GTPase dor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 126868 | NM_152367,XM_01 | **MAB21L3** | mab-21 like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126917 | NM_001136265,XM | **IFFO2** | intermediate filament fan | protein_coding | 7 | 7 | 8 | 8 | 0.992 |
| 126961 | NM_021059 | **H3C14** | H3 clustered histone 14 | protein_coding | 0 | 0 | 1 | 1 | 1.103 |
| 126969 | NM_001114106,NM | **SLC44A3** | solute carrier family 44 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 126987 | gene-LOC126987 | **LOC126987** | tight junction protein 3 (z | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127002 | NM_001350174,NM | **ATXN7L2** | ataxin 7 like 2 | protein_coding | 11 | 11 | 12 | 12 | 1.007 |
| 127003 | NM_001122961,NM | **C1orf194** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127011 | gene-LOC127011 | **LOC127011** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 127018 | NM_001300769,NM | **LYPLAL1** | lysophospholipase like 1 | protein_coding | 8 | 9 | 9 | 10 | 1.076 |
| 127059 | NM_001004690 | **OR2M5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127062 | NM_001004689 | **OR2M3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127064 | NM_001004692 | **OR2T12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127066 | NM_001001918 | **OR14C36** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127068 | NM_001001821 | **OR2T34** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127069 | NM_001004693,XM | **OR2T10** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127074 | NM_001004696 | **OR2T4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127077 | NM_001001964 | **OR2T11** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127086 | gene-XRCC6P3 | **XRCC6P3** | X-ray repair cross compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127099 | gene-RPLP1P3 | **RPLP1P3** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127124 | NM_001320218,NM | **ATP6V1G3** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 1.255 |
| 127247 | NM_080868,NR_02 | **ASB17** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127253 | NM_001162916,NM | **TYW3** | tRNA-yW synthesizing p | protein_coding | 61 | 54 | 62 | 55 | 0.884 |
| 127254 | NM_001002912,XM | **ERICH3** | glutamate rich 3 | protein_coding | 1 | 0 | 2 | 1 | 0.806 |
| 127255 | NM_001105659,NM | **LRRIQ3** | leucine rich repeats and | protein_coding | 1 | 2 | 2 | 3 | 1.261 |
| 127262 | NM_182752 | **TPRG1L** | tumor protein p63 regula | protein_coding | 11 | 12 | 12 | 13 | 1.091 |
| 127281 | NM_001195736,NM | **PRXL2B** | peroxiredoxin like 2B | protein_coding | 3 | 2 | 4 | 3 | 0.907 |
| 127294 | NM_152372 | **MYOM3** | myomesin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127295 | gene-RPL36P5 | **RPL36P5** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127343 | NM_147192,NM_17 | **DMBX1** | diencephalon/mesencep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127385 | NM_001004469 | **OR10J5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127391 | NM_001008740 | **TMCO2** | transmembrane and coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127396 | NM_152373 | **ZNF684** | zinc finger protein 684 | protein_coding | 4 | 3 | 5 | 4 | 0.901 |
| 127406 | gene-RPSAP20 | **RPSAP20** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127428 | NM_153035,NR_13 | **TCEANC2** | transcription elongation f | protein_coding | 7 | 7 | 8 | 8 | 1.018 |
| 127435 | NM_001199080,NM | **PODN** | podocan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127495 | NM_001256385,NM | **LRRC39** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 0.905 |
| 127534 | NM_153212,XM_01 | **GJB4** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127540 | NM_001352984,NM | **HMGB4** | high mobility group box 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127544 | NM_001127361,NM | **RNF19B** | ring finger protein 19B | protein_coding | 21 | 26 | 22 | 27 | 1.208 |
| 127545 | gene-RPL18AP4 | **RPL18AP4** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 127550 | NM_001080438 | **A3GALT2** | alpha 1,3-galactosyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127579 | NM_144622,XM_01 | **DCST2** | DC-STAMP domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127602 | NM_001145154,NM | **DNAH14** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127608 | NM_001355235 | **OR2AJ1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127623 | NM_001004492 | **OR2B11** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127665 | NM_001009992,XM | **ZNF648** | zinc finger protein 648 | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 127670 | NM_172000 | **TEDDM1** | transmembrane epididyn | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127687 | NM_001142726,NM | **C1orf122** | chromosome 1 open rea | protein_coding | 45 | 49 | 46 | 50 | 1.072 |
| 127700 | NM_001330493,NM | **OSCP1** | organic solute carrier pa | protein_coding | 1 | 1 | 2 | 2 | 1.128 |
| 127703 | NM_001348691,NM | **C1orf216** | chromosome 1 open rea | protein_coding | 36 | 32 | 37 | 33 | 0.912 |
| 127707 | NM_152375 | **KLHDC7A** | kelch domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127731 | NM_001039500,NM | **VWA5B1** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127733 | NM_152376,XM_00 | **UBXN10** | UBX domain protein 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127795 | NM_152377,XM_01 | **C1orf87** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127829 | NM_001256129,NM | **ARL8A** | ADP ribosylation factor li | protein_coding | 7 | 8 | 8 | 9 | 1.121 |
| 127833 | NM_001136504,NM | **SYT2** | synaptotagmin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127841 | NR_027022 | **LINC00628** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 127845 | NM_198447,XM_01 | **GOLT1A** | golgi transport 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 127933 | NM_001184763,NM | **UHMK1** | U2AF homology motif kir | protein_coding | 135 | 111 | 136 | 112 | 0.827 |
| 127943 | NM_001002901,NM | **FCRLB** | Fc receptor like B | protein_coding | 5 | 7 | 6 | 8 | 1.273 |
| 128025 | NM_001367482,XM | **WDR64** | WD repeat domain 64 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128061 | NM_001300830,NM | **C1orf131** | chromosome 1 open rea | protein_coding | 48 | 50 | 49 | 51 | 1.048 |
| 128077 | NM_153713,XM_01 | **LIX1L** | limb and CNS expressed | protein_coding | 30 | 31 | 31 | 32 | 1.014 |
| 128102 | NR_033781 | **HSD3BP4** | hydroxy-delta-5-steroid d | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 128136 | gene-LOC128136 | **LOC128136** | 3-hydroxy-3-methylgluta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128153 | NM_001375655,NM | **SPATA17** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.106 |
| 128178 | NM_080738,NM_14 | **EDARADD** | EDAR associated death | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 128192 | gene-PPIAP35 | **PPIAP35** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128209 | NM_173484,XM_00 | **KLF17** | Kruppel like factor 17 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128218 | NM_001320244,NM | **TMEM125** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128229 | NM_001304817,NM | **TSACC** | TSSK6 activating cochap | protein_coding | 0 | 0 | 1 | 1 | 1.092 |
| 128239 | NM_178229,XM_01 | **IQGAP3** | IQ motif containing GTPa | protein_coding | 1 | 1 | 2 | 2 | 0.967 |
| 128240 | NM_144772,XM_01 | **NAXE** | NAD(P)HX epimerase | protein_coding | 97 | 105 | 98 | 106 | 1.075 |
| 128272 | NM_153213,XM_01 | **ARHGEF19** | Rho guanine nucleotide | protein_coding | 2 | 3 | 3 | 4 | 1.230 |
| 128308 | NM_001321284,NM | **MRPL55** | mitochondrial ribosomal | protein_coding | 57 | 58 | 58 | 59 | 1.023 |
| 128312 | NM_175055 | **H2BU1** | H2B.U histone 1 | protein_coding | 1 | 3 | 2 | 4 | 2.364 |
| 128322 | gene-NUTF2P4 | **NUTF2P4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128338 | NM_001349881,NM | **DRAM2** | DNA damage regulated a | protein_coding | 18 | 17 | 19 | 18 | 0.949 |
| 128344 | NM_001300831,NM | **PIFO** | primary cilia formation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128346 | NM_001300834,NM | **C1orf162** | chromosome 1 open rea | protein_coding | 2 | 3 | 3 | 4 | 1.032 |
| 128360 | NM_001004475 | **OR10T2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128366 | NM_001160325 | **OR6P1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128367 | NM_001004477 | **OR10X1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128368 | NM_001004478 | **OR10Z1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128370 | gene-OR6K4P | **OR6K4P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128371 | NM_001005184 | **OR6K6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128372 | NM_001005185,XM | **OR6N1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128387 | NM_001042552,NM | **TATDN3** | TatD DNase domain con | protein_coding | 11 | 10 | 12 | 11 | 0.880 |
| 128408 | NM_080606 | **BHLHE23** | basic helix-loop-helix fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128414 | NM_001363718,NM | **NKAIN4** | sodium/potassium transp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128434 | NM_080607,XM_01 | **VSTM2L** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128439 | NR_003239 | **SNHG11** | small nucleolar RNA hos | lncRNA | 18 | 16 | 19 | 17 | 0.866 |
| 128467 | gene-RPL12P11 | **RPL12P11** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128481 | gene-RPL27AP | **RPL27AP** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128486 | NM_001080472 | **FITM2** | fat storage inducing tran | protein_coding | 5 | 4 | 6 | 5 | 0.890 |
| 128488 | NM_080869 | **WFDC12** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128497 | NM_080608,XM_02 | **SPATA25** | spermatogenesis associa | protein_coding | 1 | 0 | 2 | 1 | 0.758 |
| 128500 | gene-RPL13P2 | **RPL13P2** | ribosomal protein L13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 128506 | NM_080721,XM_01 | **OCSTAMP** | osteoclast stimulatory tra | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 128553 | NM_001193421,NM | **TSHZ2** | teashirt zinc finger home | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128580 | gene-RPS4XP3 | **RPS4XP3** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.079 |
| 128602 | NM_178456 | **C20orf85** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128609 | gene-MRPS16P2 | **MRPS16P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128611 | NM_178457,XM_00 | **ZNF831** | zinc finger protein 831 | protein_coding | 7 | 7 | 8 | 8 | 0.973 |
| 128637 | NM_144628,NR_11 | **TBC1D20** | TBC1 domain family mer | protein_coding | 25 | 20 | 26 | 21 | 0.811 |
| 128646 | NM_178460 | **SIRPD** | signal regulatory protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128653 | NM_001256538,NM | **C20orf141** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128668 | gene-RPL7AP12 | **RPL7AP12** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128674 | NM_144773,XM_01 | **PROKR2** | prokineticin receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128709 | gene-RPL23AP6 | **RPL23AP6** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128710 | NM_001009608,XM | **SLX4IP** | SLX4 interacting protein | protein_coding | 6 | 7 | 7 | 8 | 1.085 |
| 128748 | gene-RPL7AP13 | **RPL7AP13** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128756 | gene-RPL15P1 | **RPL15P1** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128760 | gene-RPL21P3 | **RPL21P3** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128770 | gene-EIF4E2P1 | **EIF4E2P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128774 | gene-MRPS11P1 | **MRPS11P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128817 | NM_138283 | **CSTL1** | cystatin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128820 | gene-CST9LP1 | **CST9LP1** | cystatin 9-like pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128821 | NM_080610 | **CST9L** | cystatin 9 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128822 | NM_001008693 | **CST9** | cystatin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128826 | NM_001302812,NM | **MIR1-1HG** | MIR1-1 host gene | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128848 | gene-DKKL1P1 | **DKKL1P1** | DKKL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128853 | NM_001012644,NM | **DUSP15** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.051 |
| 128854 | NR_002781 | **TSPY26P** | testis specific protein Y-li | transcribed_pseu | 0 | 0 | 1 | 1 | 1.283 |
| 128859 | NM_174897,XM_01 | **BPIFB6** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128861 | NM_001042439,NM | **BPIFA3** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128864 | NM_080825 | **C20orf144** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128866 | NM_176812 | **CHMP4B** | charged multivesicular b | protein_coding | 193 | 216 | 194 | 217 | 1.122 |
| 128869 | NM_080476,XM_01 | **PIGU** | phosphatidylinositol glyc | protein_coding | 77 | 80 | 78 | 81 | 1.041 |
| 128872 | NR_002165 | **HMGB3P1** | high mobility group box 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 128876 | NM_178468 | **FAM83C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 128879 | gene-HMGB3P2 | **HMGB3P2** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 128954 | NM_001037814,NM | **GAB4** | GRB2 associated binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 128977 | NM_001166242,NM | **C22orf39** | chromosome 22 open rea | protein_coding | 27 | 29 | 28 | 30 | 1.085 |
| 128989 | NM_001283106,NM | **TANGO2** | transport and golgi orgar | protein_coding | 11 | 11 | 12 | 12 | 0.961 |
| 128997 | gene-SLC9A3P2 | **SLC9A3P2** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129025 | NM_080740 | **ZNF280A** | zinc finger protein 280A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129049 | NM_001039948,NM | **SGSM1** | small G protein signaling | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 129080 | NM_001267895,NM | **EMID1** | EMI domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129138 | NM_001349853,NM | **ANKRD54** | ankyrin repeat domain 54 | protein_coding | 22 | 22 | 23 | 23 | 0.992 |
| 129285 | NM_001135629,NM | **PPP1R21** | protein phosphatase 1 re | protein_coding | 18 | 16 | 19 | 17 | 0.936 |
| 129293 | NM_001080824,NM | **TRABD2A** | TraB domain containing | protein_coding | 26 | 29 | 27 | 30 | 1.143 |
| 129303 | NM_001031738,NM | **TMEM150A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 129401 | NM_001287584,NM | **NUP35** | nucleoporin 35 | protein_coding | 65 | 61 | 66 | 62 | 0.952 |
| 129402 | gene-LIN28AP1 | **LIN28AP1** | LIN28A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129446 | NM_001079810,NM | **XIRP2** | xin actin binding repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129450 | NM_001039693,NR | **TYW5** | tRNA-yW synthesizing pr | protein_coding | 11 | 11 | 12 | 12 | 1.006 |
| 129521 | NM_001011717 | **NMS** | neuromedin S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129522 | gene-RALBP1P2 | **RALBP1P2** | RALBP1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129530 | NM_001371380,NM | **LYG1** | lysozyme g1 | protein_coding | 2 | 2 | 3 | 3 | 1.018 |
| 129531 | NM_001320417,NM | **MITD1** | microtubule interacting a | protein_coding | 85 | 78 | 86 | 79 | 0.910 |
| 129560 | gene-AHCYP4 | **AHCYP4** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129563 | NM_001257281,NM | **DIS3L2** | DIS3 like 3'-5' exoribonuc | protein_coding | 19 | 17 | 20 | 18 | 0.936 |
| 129607 | NM_001256477,NM | **CMPK2** | cytidine/uridine monoph | protein_coding | 56 | 42 | 57 | 43 | 0.747 |
| 129642 | NM_001321265,NM | **MBOAT2** | membrane bound O-acy | protein_coding | 6 | 5 | 7 | 6 | 0.988 |
| 129656 | gene-CRTC1P1 | **CRTC1P1** | CRTC1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129684 | NM_001367498,NM | **CNTNAP5** | contactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129685 | NM_138572,XM_00 | **TAF8** | TATA-box binding protei | protein_coding | 20 | 24 | 21 | 25 | 1.197 |
| 129787 | NM_001352680,NM | **TMEM18** | transmembrane protein 1 | protein_coding | 6 | 6 | 7 | 7 | 1.052 |
| 129804 | NM_001128165,NM | **FBLN7** | fibulin 7 | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 129807 | NM_001167599,NM | **NEU4** | neuraminidase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129831 | NM_001365578,NM | **RBM45** | RNA binding motif protei | protein_coding | 22 | 20 | 23 | 21 | 0.919 |
| 129841 | gene-RPSAP25 | **RPSAP25** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129852 | NM_001100396,NM | **C2orf73** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129868 | NM_138800 | **TRIM43** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129870 | gene-UBTFL3 | **UBTFL3** | UBTF like 3 (pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 129880 | NM_152384 | **BBS5** | Bardet-Biedl syndrome 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 129881 | NM_001085447,XM | **CCDC173** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 1.164 |
| 130013 | NM_001307983,NM | **ACMSD** | aminocarboxymuconate s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130026 | NM_001288622,NM | **ICA1L** | islet cell autoantigen 1 lik | protein_coding | 1 | 1 | 2 | 2 | 0.988 |
| 130074 | NM_001009993,NM | **FAM168B** | family with sequence sim | protein_coding | 99 | 86 | 100 | 87 | 0.866 |
| 130075 | NM_001001656 | **OR9A4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130106 | NM_001029881,XM | **CIB4** | calcium and integrin binc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130120 | NM_001008387,NM | **REG3G** | regenerating family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130132 | NM_144629,XM_01 | **RFTN2** | raftlin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130162 | NM_001135598,NM | **CLHC1** | clathrin heavy chain linke | protein_coding | 3 | 3 | 4 | 4 | 0.956 |
| 130271 | NM_172069,XM_01 | **PLEKHH2** | pleckstrin homology, My | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130340 | NM_001039569,NR | **AP1S3** | adaptor related protein c | protein_coding | 7 | 6 | 8 | 7 | 0.951 |
| 130355 | NM_001017927,NM | **C2orf76** | chromosome 2 open rea | protein_coding | 5 | 6 | 6 | 7 | 1.172 |
| 130367 | NM_001320833,NM | **SGPP2** | sphingosine-1-phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130399 | NM_001111031,NM | **ACVR1C** | activin A receptor type 1C | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 130429 | gene-RPSAP27 | **RPSAP27** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130497 | NM_145260,XM_00 | **OSR1** | odd-skipped related tran | protein_coding | 0 | 0 | 1 | 1 | 1.073 |
| 130500 | gene-CISD1P1 | **CISD1P1** | CDGSH iron sulfur doma | pseudogene | 0 | 0 | 1 | 1 | 1.127 |
| 130502 | NM_001008237 | **TTC32** | tetratricopeptide repeat c | protein_coding | 17 | 18 | 18 | 19 | 1.107 |
| 130507 | NM_172070,XM_00 | **UBR3** | ubiquitin protein ligase E | protein_coding | 23 | 19 | 24 | 20 | 0.828 |
| 130535 | NM_001321547,NM | **KCTD18** | potassium channel tetrar | protein_coding | 19 | 22 | 20 | 23 | 1.165 |
| 130540 | NM_001127391,NM | **FLACC1** | flagellum associated con | protein_coding | 1 | 1 | 2 | 2 | 0.887 |
| 130557 | NM_001201459,NM | **ZNF513** | zinc finger protein 513 | protein_coding | 5 | 6 | 6 | 7 | 1.048 |
| 130560 | NM_139073,XM_00 | **SPATA3** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130574 | NM_001195685,NM | **LYPD6** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130576 | NM_001317002,NM | **LYPD6B** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130589 | NM_138801,XM_01 | **GALM** | galactose mutarotase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 130612 | NM_001005209,NM | **TMEM198** | transmembrane protein 1 | protein_coding | 2 | 3 | 3 | 4 | 1.375 |
| 130617 | NM_001270998,NM | **ZFAND2B** | zinc finger AN1-type con | protein_coding | 43 | 48 | 44 | 49 | 1.104 |
| 130678 | gene-RPLP1P5 | **RPLP1P5** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130700 | gene-PSMB3P2 | **PSMB3P2** | proteasome subunit beta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130728 | gene-RPL7P13 | **RPL7P13** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130733 | NM_001167959,NM | **TMEM178A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.945 |
| 130749 | NM_173077,XM_01 | **CPO** | carboxypeptidase O | protein_coding | 1 | 1 | 2 | 2 | 1.002 |
| 130752 | NM_001039845,NM | **MDH1B** | malate dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.332 |
| 130773 | gene-RPL23AP37 | **RPL23AP37** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 130802 | gene-DNMT3AP1 | **DNMT3AP1** | DNA methyltransferase 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130813 | NM_001371320,NM | **C2orf50** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 130814 | NM_001282710,NM | **SLC66A3** | solute carrier family 66 m | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 130827 | NM_001321343,NM | **TMEM182** | transmembrane protein 1 | protein_coding | 7 | 5 | 8 | 6 | 0.771 |
| 130865 | gene-RPL26P13 | **RPL26P13** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 130872 | NR_152210,NR_15 | **AHSA2P** | activator of HSP90 ATPa | transcribed_pseu | 12 | 13 | 13 | 14 | 1.084 |
| 130888 | NM_174899,XM_00 | **FBXO36** | F-box protein 36 | protein_coding | 1 | 1 | 2 | 2 | 0.777 |
| 130916 | NM_001330179,NM | **MTERF4** | mitochondrial transcriptic | protein_coding | 27 | 27 | 28 | 28 | 0.980 |
| 130940 | NM_001301684,NM | **CCDC148** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 130951 | NM_001281295,NM | **M1AP** | meiosis 1 associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131034 | NM_001289112,NM | **CPNE4** | copine 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131054 | gene-RALBP1P1 | **RALBP1P1** | RALBP1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 131055 | gene-PPIAP74 | **PPIAP74** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 131076 | NM_001017928,NM | **CCDC58** | coiled-coil domain contai | protein_coding | 161 | 150 | 162 | 151 | 0.930 |
| 131096 | NM_144633,XM_01 | **KCNH8** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 131118 | NM_001190233,NM | **DNAJC19** | DnaJ heat shock protein | protein_coding | 70 | 73 | 71 | 74 | 1.040 |
| 131149 | NM_001080440 | **OTOL1** | otolin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131177 | NM_138805,XM_00 | **FAM3D** | FAM3 metabolism regula | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131185 | gene-RAD23BP1 | **RAD23BP1** | RAD23B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 131368 | NM_001329788,NM | **ZPLD1** | zona pellucida like doma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131375 | NM_001304386,NM | **LYZL4** | lysozyme like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131377 | NM_152393 | **KLHL40** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 131405 | NM_001039111 | **TRIM71** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 131408 | NM_001171093,NM | **FAM131A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.250 |
| 131450 | NM_138806,NM_13 | **CD200R1** | CD200 receptor 1 | protein_coding | 106 | 86 | 107 | 87 | 0.817 |
| 131474 | NM_001098502,NM | **CHCHD4** | coiled-coil-helix-coiled-cc | protein_coding | 59 | 51 | 60 | 52 | 0.871 |
| 131540 | NM_001039617,NR_ | **ZDHHC19** | zinc finger DHHC-type p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131544 | NM_153605,XM_00 | **CRYBG3** | crystallin beta-gamma d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131566 | NM_080927,XM_01 | **DCBLD2** | discoidin, CUB and LCCl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131572 | gene-MESTP4 | **MESTP4** | mesoderm specific trans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 131578 | NM_001135057,NM | **LRRC15** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131583 | NM_153690 | **FAM43A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 131601 | NM_001136053,NM | **TPRA1** | transmembrane protein a | protein_coding | 22 | 23 | 23 | 24 | 1.039 |
| 131616 | NM_144638 | **TMEM42** | transmembrane protein 4 | protein_coding | 8 | 9 | 9 | 10 | 1.067 |
| 131669 | NM_001165974,NM | **UROC1** | urocanate hydratase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 131831 | NM_001308234,NM | **ERICH6** | glutamate rich 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131870 | NM_001171905,NM | **NUDT16** | nudix hydrolase 16 | protein_coding | 13 | 13 | 14 | 14 | 1.022 |
| 131873 | NM_001102608,XM | **COL6A6** | collagen type VI alpha 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131890 | NM_139209,XM_01 | **GRK7** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 131909 | NR_036433 | **FAM172BP** | family with sequence sim | transcribed_pseu | 0 | 1 | 1 | 2 | 1.182 |
| 131920 | NM_207316 | **TMEM207** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 131961 | gene-IMPDH1P8 | **IMPDH1P8** | inosine monophosphate | pseudogene | 1 | 1 | 2 | 2 | 0.933 |
| 131965 | NM_001301790,NM | **METTL6** | methyltransferase like 6 | protein_coding | 18 | 16 | 19 | 17 | 0.866 |
| 131973 | gene-RHBDF1P1 | **RHBDF1P1** | RHBDF1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132001 | NM_001284401,NM | **TAMM41** | TAM41 mitochondrial tra | protein_coding | 10 | 7 | 11 | 8 | 0.787 |
| 132014 | NM_001193380,NM | **IL17RE** | interleukin 17 receptor E | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 132112 | NM_153708 | **RTP1** | receptor transporter prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132141 | NM_152397,XM_01 | **IQCF1** | IQ motif containing F1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132158 | NM_001144951,NM | **GLYCTK** | glycerate kinase | protein_coding | 6 | 6 | 7 | 7 | 1.000 |
| 132160 | NM_001122870,NM | **PPM1M** | protein phosphatase, Mg | protein_coding | 18 | 18 | 19 | 19 | 1.021 |
| 132200 | NM_001355236,XM | **C3orf49** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132203 | NM_001080537,NM | **SNTN** | sentan, cilia apical struct | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132204 | NM_001130003,NM | **SYNPR** | synaptoporin | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 132228 | NM_001304385,NM | **LSMEM2** | leucine rich single-pass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132241 | NR_003111 | **RPL32P3** | ribosomal protein L32 ps | transcribed_pseu | 9 | 7 | 10 | 8 | 0.809 |
| 132243 | NM_001308262,NM | **H1-8** | H1.8 linker histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132299 | NM_001014446,NM | **OCIAD2** | OCIA domain containing | protein_coding | 32 | 30 | 33 | 31 | 0.918 |
| 132320 | NM_001300897,NM | **SCLT1** | sodium channel and clat | protein_coding | 28 | 24 | 29 | 25 | 0.856 |
| 132321 | NM_001099783,NM | **C4orf33** | chromosome 4 open rea | protein_coding | 5 | 5 | 6 | 6 | 1.017 |
| 132332 | NM_001317837,NM | **TMEM155** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132386 | gene-LOC132386 | **LOC132386** | epithelial cell adhesion n | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132391 | gene-KRT18P21 | **KRT18P21** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132430 | NM_001114734,NM | **PABPC4L** | poly(A) binding protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132556 | gene-BTF3P13 | **BTF3P13** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132612 | NM_001159285,NM | **ADAD1** | adenosine deaminase dc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132625 | NM_001304358,NM | **ZFP42** | ZFP42 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132660 | NM_001115007,NM | **LIN54** | lin-54 DREAM MuvB core | protein_coding | 19 | 16 | 20 | 17 | 0.882 |
| 132671 | NM_001297608,NM | **SPATA18** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132719 | gene-TUBB8P3 | **TUBB8P3** | tubulin beta 8 class VIII | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132720 | NM_152400 | **FAM241A** | family with sequence sim | protein_coding | 6 | 5 | 7 | 6 | 0.802 |
| 132724 | NM_182502,XM_01 | **TMPRSS11B** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132789 | NM_001270880,NM | **GNPDA2** | glucosamine-6-phosphat | protein_coding | 18 | 17 | 19 | 18 | 0.926 |
| 132817 | gene-RBM48P1 | **RBM48P1** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 132851 | NM_144644 | **SPATA4** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132864 | NM_001177381,NM | **CPEB2** | cytoplasmic polyadenyla | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 132884 | NM_001166136,NM | **EVC2** | EvC ciliary complex subu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132946 | NM_001363794,NM | **ARL9** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 0.915 |
| 132949 | NM_001286668,NM | **AASDH** | aminoadipate-semialdeh | protein_coding | 8 | 7 | 9 | 8 | 0.913 |
| 132954 | NM_152401,XM_00 | **PDCL2** | phosducin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 132989 | NM_001369888,NM | **C4orf36** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.157 |
| 133015 | NM_001130727,NM | **PACRGL** | parkin coregulated like | protein_coding | 10 | 12 | 11 | 13 | 1.182 |
| 133022 | NM_152402 | **TRAM1L1** | translocation associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133060 | NM_177998 | **OTOP1** | otopetrin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133083 | gene-PMPCAP1 | **PMPCAP1** | PMPCA pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133121 | NM_153343 | **ENPP6** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133283 | gene-EEF1A1P13 | **EEF1A1P13** | eukaryotic translation elc | pseudogene | 15 | 18 | 16 | 19 | 1.227 |
| 133308 | NM_001300754,NM | **SLC9B2** | solute carrier family 9 me | protein_coding | 9 | 9 | 10 | 10 | 0.965 |
| 133332 | gene-LOC133332 | **LOC133332** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133383 | NM_001171990,NM | **SETD9** | SET domain containing 9 | protein_coding | 13 | 14 | 14 | 15 | 1.071 |
| 133396 | NM_001242636,NM | **IL31RA** | interleukin 31 receptor A | protein_coding | 1 | 0 | 2 | 1 | 0.685 |
| 133418 | NM_198449,XM_01 | **EMB** | embigin | protein_coding | 79 | 69 | 80 | 70 | 0.872 |
| 133482 | NM_001289002,NM | **SLCO6A1** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133491 | NM_001144954,XM | **C5orf47** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133522 | NM_001172698,NM | **PPARGC1B** | PPARG coactivator 1 bet | protein_coding | 13 | 11 | 14 | 12 | 0.843 |
| 133558 | NM_173489,XM_01 | **MROH2B** | maestro heat like repeat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133569 | gene-RPS10P12 | **RPS10P12** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133584 | NM_001205301,NM | **EGFLAM** | EGF like, fibronectin type | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133609 | gene-RPLP1P7 | **RPLP1P7** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133615 | gene-MRPS5P3 | **MRPS5P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133619 | NM_001286808,NM | **PRRC1** | proline rich coiled-coil 1 | protein_coding | 33 | 30 | 34 | 31 | 0.922 |
| 133629 | gene-RPL11P2 | **RPL11P2** | ribosomal protein L11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133686 | NM_001085411,NM | **NADK2** | NAD kinase 2, mitochonc | protein_coding | 15 | 15 | 16 | 16 | 1.009 |
| 133688 | NM_001171873,NM | **UGT3A1** | UDP glycosyltransferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133690 | NM_001042625,NM | **CAPSL** | calcyphosine like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133746 | NM_152405,XM_00 | **JMY** | junction mediating and r | protein_coding | 5 | 5 | 6 | 6 | 0.931 |
| 133748 | gene-RPL7AP32 | **RPL7AP32** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 133789 | gene-RAB5CP2 | **RAB5CP2** | RAB5C, member RAS or | pseudogene | 0 | 0 | 1 | 1 | 1.050 |
| 133790 | gene-RPS18P7 | **RPS18P7** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 133874 | NM_001102609,NM | **C5orf58** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133923 | NM_207317 | **ZNF474** | zinc finger protein 474 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 133957 | NM_145265 | **CCDC127** | coiled-coil domain contai | protein_coding | 4 | 5 | 5 | 6 | 1.138 |
| 134008 | gene-MRPL11P2 | **MRPL11P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 134083 | NM_001001657 | **OR2Y1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134111 | NM_001145161,XM | **UBE2QL1** | ubiquitin conjugating en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134121 | NM_001089584,XM | **C5orf49** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134145 | NM_001258388,NM | **ATPSCKMT** | ATP synthase c subunit | protein_coding | 24 | 22 | 25 | 23 | 0.904 |
| 134147 | NM_138809 | **CMBL** | carboxymethylenebuten | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134187 | NM_153216 | **POU5F2** | POU domain class 5, tra | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 134218 | NM_001012339,NM | **DNAJC21** | DnaJ heat shock protein | protein_coding | 38 | 36 | 39 | 37 | 0.950 |
| 134265 | NM_001146337,NM | **AFAP1L1** | actin filament associated | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 134266 | NM_152407 | **GRPEL2** | GrpE like 2, mitochondria | protein_coding | 24 | 22 | 25 | 23 | 0.932 |
| 134285 | NM_001161342,NM | **TMEM171** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134288 | NM_153217 | **TMEM174** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134353 | NM_173491 | **LSM11** | LSM11, U7 small nuclear | protein_coding | 13 | 11 | 14 | 12 | 0.888 |
| 134359 | NM_001099271,NM | **POC5** | POC5 centriolar protein | protein_coding | 26 | 26 | 27 | 27 | 1.011 |
| 134391 | NM_194251 | **GPR151** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134429 | NM_001308056,NM | **STARD4** | StAR related lipid transfe | protein_coding | 29 | 26 | 30 | 27 | 0.881 |
| 134430 | NM_139281 | **WDR36** | WD repeat domain 36 | protein_coding | 45 | 39 | 46 | 40 | 0.883 |
| 134466 | NR_026867 | **ZNF300P1** | zinc finger protein 300 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 134492 | NM_001329991,NM | **NUDCD2** | NudC domain containing | protein_coding | 15 | 14 | 16 | 15 | 0.961 |
| 134505 | gene-EIF3KP1 | **EIF3KP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 134510 | NM_145049 | **UBLCP1** | ubiquitin like domain con | protein_coding | 84 | 77 | 85 | 78 | 0.911 |
| 134526 | NM_130767,XM_00 | **ACOT12** | acyl-CoA thioesterase 12 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134548 | NM_175873 | **SOWAHA** | sosondowah ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134549 | NM_001172700,NM | **SHROOM1** | shroom family member 1 | protein_coding | 2 | 1 | 3 | 2 | 0.934 |
| 134553 | NM_001135586,NM | **C5orf24** | chromosome 5 open rea | protein_coding | 20 | 19 | 21 | 20 | 0.945 |
| 134637 | NM_001286259,NM | **ADAT2** | adenosine deaminase tR | protein_coding | 7 | 7 | 8 | 8 | 0.972 |
| 134701 | NM_001009994,NR | **RIPPLY2** | ripply transcriptional rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134728 | NM_001010844,XM | **IRAK1BP1** | interleukin 1 receptor ass | protein_coding | 1 | 1 | 2 | 2 | 1.336 |
| 134829 | NM_001010852 | **CLVS2** | clavesin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 134860 | NM_175057 | **TAAR9** | trace amine associated r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134864 | NM_138327 | **TAAR1** | trace amine associated r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 134957 | NM_001127715,NM | **STXBP5** | syntaxin binding protein | protein_coding | 9 | 6 | 10 | 7 | 0.743 |
| 134997 | gene-PPIAP29 | **PPIAP29** | peptidylprolyl isomerase | pseudogene | 8 | 9 | 9 | 10 | 1.173 |
| 135112 | NM_001122842,NM | **NCOA7** | nuclear receptor coactiva | protein_coding | 15 | 11 | 16 | 12 | 0.767 |
| 135114 | NM_138571 | **HINT3** | histidine triad nucleotide | protein_coding | 22 | 18 | 23 | 19 | 0.854 |
| 135138 | NM_001080378,NM | **PACRG** | parkin coregulated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135152 | NM_080742 | **B3GAT2** | beta-1,3-glucuronyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.027 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 135154 | NM_145267 | **SDHAF4** | succinate dehydrogenas | protein_coding | 7 | 7 | 8 | 8 | 1.093 |
| 135228 | NM_001159587,NM | **CD109** | CD109 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135250 | NM_001243325,NM | **RAET1E** | retinoic acid early transcr | protein_coding | 0 | 0 | 1 | 1 | 1.057 |
| 135270 | gene-COPS5P1 | **COPS5P1** | COP9 signalosome subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 135293 | NM_001010853,XM_ | **PM20D2** | peptidase M20 domain c | protein_coding | 45 | 39 | 46 | 40 | 0.854 |
| 135295 | NM_001376896,NM | **SRSF12** | serine and arginine rich s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135398 | NM_001145652,NR_ | **C6orf141** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135458 | NM_148959 | **HUS1B** | HUS1 checkpoint clamp | protein_coding | 1 | 1 | 2 | 2 | 1.007 |
| 135644 | NM_001286633,NM | **TRIM40** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135656 | NM_080870 | **MUCL3** | mucin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135886 | NM_182504,XM_01 | **TMEM270** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135892 | NM_001281450,NM | **TRIM50** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135924 | NM_001001658 | **OR9A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135927 | NM_001382496,NR_ | **LLCFC1** | LLLL and CFNLAS motif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135932 | NM_001242773,NM | **TMEM139** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.887 |
| 135935 | NM_001080413,XM_ | **NOBOX** | NOBOX oogenesis home | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135941 | NM_001001659 | **OR2A14** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135946 | NM_001005281 | **OR6B1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 135948 | NM_001004685 | **OR2F2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136051 | NM_152411 | **ZNF786** | zinc finger protein 786 | protein_coding | 7 | 8 | 8 | 9 | 1.144 |
| 136227 | NM_001278563,NM | **COL26A1** | collagen type XXVI alpha | protein_coding | 0 | 1 | 1 | 2 | 1.088 |
| 136242 | NM_001008270,NM | **PRSS37** | serine protease 37 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136259 | NM_138693 | **KLF14** | Kruppel like factor 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136263 | NM_145268,XM_005 | **SSMEM1** | serine rich single-pass m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136288 | NM_001100159,NM | **C7orf57** | chromosome 7 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136306 | NM_001139456,NM | **SVOPL** | SVOP like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136307 | gene-IMPDH1P3 | **IMPDH1P3** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 136319 | NM_145808 | **MTPN** | myotrophin | protein_coding | 251 | 208 | 252 | 209 | 0.833 |
| 136332 | NM_001365700,NM | **LRGUK** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.084 |
| 136371 | NM_001142459,NM | **ASB10** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136541 | NM_001001317 | **PRSS58** | serine protease 58 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 136647 | NM_138701 | **MPLKIP** | M-phase specific PLK1 ir | protein_coding | 4 | 3 | 5 | 4 | 0.833 |
| 136853 | NM_080744,XM_01 | **SSC4D** | scavenger receptor cyste | protein_coding | 0 | 0 | 1 | 1 | 0.920 |
| 136895 | NM_001371351,NM | **C7orf31** | chromosome 7 open rea | protein_coding | 3 | 2 | 4 | 3 | 0.925 |
| 136991 | NM_001301821,NM | **ASZ1** | ankyrin repeat, SAM and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137012 | gene-PPM1AP1 | **PPM1AP1** | protein phosphatase, Mg | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 137075 | NM_194284 | **CLDN23** | claudin 23 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137107 | gene-RPL10AP3 | **RPL10AP3** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 137133 | gene-PSAT1P1 | **PSAT1P1** | phosphoserine aminotra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 137196 | NR_130917,NR_13 | **CCDC26** | CCDC26 long non-codin | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 137209 | NM_152412 | **ZNF572** | zinc finger protein 572 | protein_coding | 3 | 2 | 4 | 3 | 0.794 |
| 137290 | gene-MRPL9P1 | **MRPL9P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 137362 | NM_152413,XM_005 | **GOT1L1** | glutamic-oxaloacetic tran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137392 | NM_001283034,NM | **CIBAR1** | CBY1 interacting BAR dc | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 137406 | gene-MRPS16P1 | **MRPS16P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 137492 | NM_001145152,NM | **VPS37A** | VPS37A subunit of ESCI | protein_coding | 10 | 9 | 11 | 10 | 0.886 |
| 137529 | gene-CKS1BP7 | **CKS1BP7** | CDC28 protein kinase re | pseudogene | 1 | 1 | 2 | 2 | 1.087 |
| 137682 | NM_001330582,NM | **NDUFAF6** | NADH:ubiquinone oxidor | protein_coding | 17 | 19 | 18 | 20 | 1.101 |
| 137695 | NM_001286657,NM | **TMEM68** | transmembrane protein 6 | protein_coding | 26 | 24 | 27 | 25 | 0.917 |
| 137735 | NM_139166,XM_02 | **ABRA** | actin binding Rho activat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137797 | NM_205545 | **LYPD2** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137814 | NM_001136271 | **NKX2-6** | NK2 homeobox 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137835 | NM_001145153,NM | **TMEM71** | transmembrane protein 7 | protein_coding | 3 | 2 | 4 | 3 | 0.960 |
| 137868 | NM_001322879,NM | **SGCZ** | sarcoglycan zeta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137872 | NM_144650 | **ADHFE1** | alcohol dehydrogenase i | protein_coding | 0 | 0 | 1 | 1 | 0.879 |
| 137886 | NM_001077619,NM | **UBXN2B** | UBX domain protein 2B | protein_coding | 37 | 33 | 38 | 34 | 0.903 |
| 137902 | NM_144651,XM_005 | **PXDNL** | peroxidasin like | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 137964 | NM_001363197,NM | **GPAT4** | glycerol-3-phosphate ac | protein_coding | 32 | 33 | 33 | 34 | 1.031 |
| 137970 | NM_001322818,NM | **UNC5D** | unc-5 netrin receptor D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 137994 | NM_001199659,NM | **LETM2** | leucine zipper and EF-ha | protein_coding | 8 | 7 | 9 | 8 | 0.952 |
| 138009 | NM_152418 | **DCAF4L2** | DDB1 and CUL4 associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138046 | NM_001100391,NM | **RALYL** | RALY RNA binding prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138050 | NM_001363227,NM | **HGSNAT** | heparan-alpha-glucosam | protein_coding | 3 | 4 | 4 | 5 | 1.259 |
| 138065 | NM_001371234,NM | **RNF183** | ring finger protein 183 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138151 | NM_144653,XM_01 | **NACC2** | NACC family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138162 | NM_001048265,NM | **C9orf116** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.272 |
| 138199 | NM_001320497,NM | **CARNMT1** | carnosine N-methyltrans | protein_coding | 32 | 29 | 33 | 30 | 0.915 |
| 138234 | gene-ATP5PDP2 | **ATP5PDP2** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 138240 | NM_001128618,NM | **C9orf57** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138241 | NM_001365053,NM | **C9orf85** | chromosome 9 open rea | protein_coding | 23 | 23 | 24 | 24 | 1.002 |
| 138255 | NM_001010940,NM | **C9orf135** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138307 | NM_001345934,NM | **LCN8** | lipocalin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138311 | NM_152421,XM_00 | **DIPK1B** | divergent protein kinase | protein_coding | 0 | 0 | 1 | 1 | 1.208 |
| 138412 | gene-SLC25A6P2 | **SLC25A6P2** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 138428 | NM_001002913,NM | **PTRH1** | peptidyl-tRNA hydrolase | protein_coding | 10 | 12 | 11 | 13 | 1.175 |
| 138429 | NM_001135219,NM | **PIP5KL1** | phosphatidylinositol-4-ph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138474 | NM_153809 | **TAF1L** | TATA-box binding protei | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 138639 | NM_001253829,NM | **PTPDC1** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138649 | NR_026868 | **ANKRD19P** | ankyrin repeat domain 19 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 138652 | NM_001350291 | **PRSS47** | serine protease 47 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138715 | NM_001017363,NM | **ARID3C** | AT-rich interaction domai | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 138716 | NM_148178,NM_14 | **RPP25L** | ribonuclease P/MRP sub | protein_coding | 38 | 37 | 39 | 38 | 0.985 |
| 138724 | NM_001040410,NM | **C9orf131** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138799 | NM_001004482 | **OR13C5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138802 | NM_001004483 | **OR13C8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138803 | NM_001001961 | **OR13C3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138804 | NM_001001919 | **OR13C4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138805 | NM_001004485 | **OR13F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138864 | gene-ATP5PDP3 | **ATP5PDP3** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 138881 | NM_001004454,XM_ | **OR1L8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138882 | NM_001004457 | **OR1N2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138883 | NM_012363 | **OR1N1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 138916 | gene-SYNGR2P2 | **SYNGR2P2** | synaptogyrin 2 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 138948 | NR_102735 | **DBH-AS1** | DBH antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 138971 | gene-DPP3P2 | **DPP3P2** | DPP3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139060 | gene-KRT18P68 | **KRT18P68** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139065 | NM_001184749,NM | **SLITRK4** | SLIT and NTRK like fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139067 | NM_001009609,XM_ | **SPANXN3** | SPANX family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139081 | NM_138702,NM_17 | **MAGEC3** | MAGE family member C3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139105 | NM_001184767,NM | **BEND2** | BEN domain containing 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139135 | NM_173493,XM_01 | **PASD1** | PAS domain containing r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139163 | gene-SALL1P1 | **SALL1P1** | spalt like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139170 | NM_178470 | **DCAF12L1** | DDB1 and CUL4 associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139189 | NM_001013742,XM_ | **DGKK** | diacylglycerol kinase kap | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139201 | NR_029423 | **MAP2K4P1** | mitogen-activated protein | transcribed_pseu | 0 | 0 | 1 | 1 | 0.889 |
| 139212 | NM_001169154,NM | **DNAAF6** | dynein axonemal assem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139221 | NM_001171020,NM | **PWWP3B** | PWWP domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139231 | NM_207318,XM_005 | **FAM199X** | family with sequence sim | protein_coding | 37 | 31 | 38 | 32 | 0.839 |
| 139249 | gene-FAM47DP | **FAM47DP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139285 | NM_152424 | **AMER1** | APC membrane recruitm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139322 | NM_198450,XM_01 | **APOOL** | apolipoprotein O like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139324 | NM_001177478,NM | **HDX** | highly divergent homeob | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139334 | gene-IMPDH1P4 | **IMPDH1P4** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139341 | NM_173794 | **FUNDC1** | FUN14 domain containin | protein_coding | 50 | 47 | 51 | 48 | 0.934 |
| 139378 | NM_153834,XM_01 | **ADGRG4** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139411 | NM_173495,XM_01 | **PTCHD1** | patched domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139420 | NM_207319 | **PPP4R3C** | protein phosphatase 4 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139422 | NM_182506 | **MAGEB10** | MAGE family member B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139425 | NM_001017930 | **DCAF8L1** | DDB1 and CUL4 associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139431 | gene-FTH1P14 | **FTH1P14** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139452 | gene-RPL6P30 | **RPL6P30** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 139538 | NR_001559 | **VENTXP1** | VENT homeobox pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 139562 | NM_207320 | **OTUD6A** | OTU deubiquitinase 6A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139596 | NM_001307944,NM | **UPRT** | uracil phosphoribosyltrar | protein_coding | 19 | 17 | 20 | 18 | 0.885 |
| 139599 | NM_138703 | **MAGEE2** | MAGE family member E2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139604 | NM_001099921,NM | **MAGEB16** | MAGE family member B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 139628 | NM_198451 | **FOXR2** | forkhead box R2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139629 | XR_001755743 | **XAGE-4** | XAGE-4 protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 139716 | NM_001081573,NM | **GAB3** | GRB2 associated bindin | protein_coding | 18 | 16 | 19 | 17 | 0.881 |
| 139728 | NM_001039582,NM | **PNCK** | pregnancy up-regulated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139735 | NM_001136273,XM | **ZFP92** | ZFP92 zinc finger protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139741 | NM_138289 | **ACTRT1** | actin related protein T1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139748 | gene-KRT18P44 | **KRT18P44** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 139760 | NM_178471 | **GPR119** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139793 | NM_001017931,NM | **PAGE3** | PAGE family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139804 | NM_001145346 | **RBMXL3** | RBMX like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 139818 | NM_144658,XM_00 | **DOCK11** | dedicator of cytokinesis | protein_coding | 13 | 12 | 14 | 13 | 0.943 |
| 139886 | NM_001012968 | **SPIN4** | spindlin family member 4 | protein_coding | 27 | 25 | 28 | 26 | 0.932 |
| 140032 | NM_001039567 | **RPS4Y2** | ribosomal protein S4 Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140100 | gene-RBMY2KP | **RBMY2KP** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140101 | gene-RBMY2MP | **RBMY2MP** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140258 | NM_181599 | **KRTAP13-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140290 | NM_144659 | **TCP10L** | t-complex 10 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140432 | NM_178861 | **RNF113B** | ring finger protein 113B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140453 | NM_001040105,NR | **MUC17** | mucin 17, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140456 | NM_001012428,NM | **ASB11** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140458 | NM_080874,XM_00 | **ASB5** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140459 | NM_001202403,NM | **ASB6** | ankyrin repeat and SOC | protein_coding | 24 | 23 | 25 | 24 | 0.969 |
| 140460 | NM_024708,NM_19 | **ASB7** | ankyrin repeat and SOC | protein_coding | 32 | 28 | 33 | 29 | 0.881 |
| 140461 | NM_001319296,NM | **ASB8** | ankyrin repeat and SOC | protein_coding | 24 | 25 | 25 | 26 | 1.043 |
| 140462 | NM_001031739,NM | **ASB9** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140464 | NR_027070 | **PISRT1** | PISRT1 lncRNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140465 | NM_001199629,NM | **MYL6B** | myosin light chain 6B | protein_coding | 95 | 95 | 96 | 96 | 0.998 |
| 140467 | NM_018083,XM_00 | **ZNF358** | zinc finger protein 358 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140468 | gene-COX11P1 | **COX11P1** | COX11 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140469 | NM_001083615,NM | **MYO3B** | myosin IIIB | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140545 | NM_001184996,NM | **RNF32** | ring finger protein 32 | protein_coding | 7 | 6 | 8 | 7 | 0.891 |
| 140564 | NM_001363781,NM | **APOBEC3D** | apolipoprotein B mRNA e | protein_coding | 24 | 26 | 25 | 27 | 1.061 |
| 140576 | NM_001317007,NM | **S100A16** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140578 | NM_001204174,NM | **CHODL** | chondrolectin | protein_coding | 1 | 0 | 2 | 1 | 0.839 |
| 140596 | NM_080389 | **DEFB104A** | defensin beta 104A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140597 | NM_080390 | **TCEAL2** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140603 | gene-COX6B1P1 | **COX6B1P1** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140606 | NM_080430 | **SELENOM** | selenoprotein M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140609 | NM_133494,XM_01 | **NEK7** | NIMA related kinase 7 | protein_coding | 60 | 53 | 61 | 54 | 0.896 |
| 140612 | NM_001308440,NM | **ZFP28** | ZFP28 zinc finger protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140623 | gene-FAUP1 | **FAUP1** | FAU pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.074 |
| 140625 | NM_080431 | **ACTRT2** | actin related protein T2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140628 | NM_080473,XM_00 | **GATA5** | GATA binding protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140660 | gene-RPL21P4 | **RPL21P4** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.088 |
| 140678 | NR_045115 | **MLLT10P1** | MLLT10 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 140679 | NM_080552 | **SLC32A1** | solute carrier family 32 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140680 | NM_080571,NM_15 | **C20orf96** | chromosome 20 open re | protein_coding | 2 | 3 | 3 | 4 | 1.081 |
| 140683 | NM_001319164,NM | **BPIFA2** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140685 | NM_001369741,NM | **ZBTB46** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140686 | NM_080614,XM_01 | **WFDC3** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140687 | NR_160308 | **GCNT7** | glucosaminyl (N-acetyl) t | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 140688 | NM_001256798,NM | **NOL4L** | nucleolar protein 4 like | protein_coding | 9 | 8 | 10 | 9 | 0.937 |
| 140689 | NM_080617 | **CBLN4** | cerebellin 4 precursor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140690 | NM_001269040,NM | **CTCFL** | CCCTC-binding factor lik | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 140691 | NM_001301144,NM | **TRIM69** | tripartite motif containing | protein_coding | 2 | 2 | 3 | 3 | 1.092 |
| 140692 | gene-COX7BP2 | **COX7BP2** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140695 | gene-RPL7P2 | **RPL7P2** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140696 | gene-RPL37P1 | **RPL37P1** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140699 | NM_152503,NM_21 | **MROH8** | maestro heat like repeat | protein_coding | 4 | 4 | 5 | 5 | 0.923 |
| 140700 | NM_080621,XM_00 | **SAMD10** | sterile alpha motif domai | protein_coding | 32 | 32 | 33 | 33 | 0.988 |
| 140701 | NM_080622 | **ABHD16B** | abhydrolase domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140706 | NM_001365692,NM | **CCM2L** | CCM2 like scaffold prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140707 | NM_080626,XM_01 | **BRI3BP** | BRI3 binding protein | protein_coding | 52 | 47 | 53 | 48 | 0.914 |
| 140710 | NM_080627,NM_19 | **SOGA1** | suppressor of glucose, a | protein_coding | 0 | 0 | 1 | 1 | 1.052 |
| 140711 | NM_001304783,NM | **TLDC2** | TBC/LysM-associated do | protein_coding | 0 | 0 | 1 | 1 | 1.081 |
| 140713 | gene-RPS3AP3 | **RPS3AP3** | RPS3A pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140715 | gene-RPL21P2 | **RPL21P2** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140717 | gene-RPL37AP1 | **RPL37AP1** | ribosomal protein L37a p | pseudogene | 0 | 0 | 1 | 1 | 1.300 |
| 140719 | gene-RPL39P | **RPL39P** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140730 | NM_001205317,NM | **RIMS4** | regulating synaptic mem | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 140731 | NM_001304369 | **ANKRD60** | ankyrin repeat domain 6( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140732 | NM_080675,XM_01 | **SUN5** | Sad1 and UNC84 domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140733 | NM_001033087,NM | **MACROD2** | mono-ADP ribosylhydrol | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 140735 | NM_080677 | **DYNLL2** | dynein light chain LC8-ty | protein_coding | 112 | 113 | 113 | 114 | 1.010 |
| 140738 | NM_183240,XM_00 | **TMEM37** | transmembrane protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 140739 | NM_001278305,NM | **UBE2F** | ubiquitin conjugating en | protein_coding | 35 | 34 | 36 | 35 | 0.984 |
| 140750 | gene-RPL36P4 | **RPL36P4** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140751 | gene-RPL36P2 | **RPL36P2** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140753 | gene-RPL31P2 | **RPL31P2** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140755 | gene-RPS2P1 | **RPS2P1** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140756 | gene-RPL7AP14 | **RPL7AP14** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 140758 | gene-RPS10P2 | **RPS10P2** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 0.926 |
| 140766 | NM_080722,NM_13 | **ADAMTS14** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 140767 | NM_080723 | **NRSN1** | neurensin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140771 | NR_024007 | **SMCR5** | Smith-Magenis syndrom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140775 | NM_144775 | **SMCR8** | SMCR8-C9orf72 comple | protein_coding | 13 | 11 | 14 | 12 | 0.870 |
| 140801 | NM_080746 | **RPL10L** | ribosomal protein L10 lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140803 | NM_001177310,NM | **TRPM6** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 140807 | NM_001146225,NM | **KRT72** | keratin 72 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140809 | NM_080725 | **SRXN1** | sulfiredoxin 1 | protein_coding | 47 | 44 | 48 | 45 | 0.933 |
| 140823 | NM_080748,XM_01 | **ROMO1** | reactive oxygen species | protein_coding | 295 | 315 | 296 | 316 | 1.069 |
| 140825 | NM_001278535,NM | **NEURL2** | neuralized E3 ubiquitin p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140828 | NR_001558 | **LINC00261** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140831 | NM_080752,NR_03 | **ZSWIM3** | zinc finger SWIM-type cc | protein_coding | 12 | 11 | 13 | 12 | 0.922 |
| 140832 | NM_080753,XM_01 | **WFDC10A** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140834 | NR_132342,NR_13 | **LINC01620** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140836 | NM_001014977,NM | **BANF2** | BANF family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140838 | NM_152667 | **NANP** | N-acetylneuraminic acid | protein_coding | 12 | 10 | 13 | 11 | 0.818 |
| 140846 | NR_109815 | **FAM83C-AS1** | FAM83C antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.957 |
| 140848 | NR_104193 | **MACROD2-IT1** | MACROD2 intronic trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140849 | NR_040415 | **LINC00266-1** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.884 |
| 140850 | NM_139074 | **DEFB127** | defensin beta 127 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140856 | NM_178483 | **SCP2D1** | SCP2 sterol binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140862 | NM_080826,XM_01 | **ISM1** | isthmin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140870 | NM_080827 | **WFDC6** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140873 | NM_001145350,NR | **C20orf173** | chromosome 20 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140875 | NR_024358 | **LINC00028** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 140876 | NM_001290268,NM | **RIPOR3** | RIPOR family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140880 | NM_080830,NM_13 | **CST11** | cystatin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140881 | NM_080831 | **DEFB129** | defensin beta 129 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140883 | NM_080764,NR_13 | **ZNF280B** | zinc finger protein 280B | protein_coding | 3 | 2 | 4 | 3 | 0.890 |
| 140885 | NM_001040022,NM | **SIRPA** | signal regulatory protein | protein_coding | 14 | 12 | 15 | 13 | 0.850 |
| 140886 | NM_080832 | **PABPC5** | poly(A) binding protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140890 | NM_001077199,NM | **SREK1** | splicing regulatory glutar | protein_coding | 49 | 42 | 50 | 43 | 0.860 |
| 140893 | NM_080833 | **RBBP8NL** | RBBP8 N-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140894 | NM_001207076,NM | **CNBD2** | cyclic nucleotide binding | protein_coding | 1 | 1 | 2 | 2 | 1.191 |
| 140901 | NM_080836,XM_01 | **STK35** | serine/threonine kinase 3 | protein_coding | 31 | 30 | 32 | 31 | 0.974 |
| 140902 | NM_178491 | **R3HDML** | R3H domain containing l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 140913 | gene-PPIAP10 | **PPIAP10** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 140921 | gene-PPP2R5CP | **PPP2R5CP** | protein phosphatase 2 re | pseudogene | 0 | 0 | 1 | 1 | 1.072 |
| 140947 | NM_130848 | **DCANP1** | dendritic cell associated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142678 | NM_001170686,NM | **MIB2** | mindbomb E3 ubiquitin p | protein_coding | 6 | 7 | 7 | 8 | 1.132 |
| 142679 | NM_001142314,NM | **DUSP19** | dual specificity phosphat | protein_coding | 1 | 1 | 2 | 2 | 1.015 |
| 142680 | NM_001177316,NM | **SLC34A3** | solute carrier family 34 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142683 | NM_080878,XM_01 | **ITLN2** | intelectin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142684 | NM_080879 | **RAB40A** | RAB40A, member RAS o | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 142685 | NM_001290258,NM | **ASB15** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142686 | NM_001142733,NM | **ASB14** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142689 | NM_130388 | **ASB12** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142827 | NM_207321 | **ACSM6** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 142891 | NM_001174156,NM | **SAMD8** | sterile alpha motif domai | protein_coding | 6 | 5 | 7 | 6 | 0.802 |
| 142910 | NM_001010939,XM | **LIPJ** | lipase family member J | protein_coding | 1 | 0 | 2 | 1 | 0.976 |
| 142913 | NR_028492 | **CFL1P1** | cofilin 1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.977 |
| 142940 | NM_139169 | **TRUB1** | TruB pseudouridine synt | protein_coding | 34 | 31 | 35 | 32 | 0.918 |
| 143098 | NM_001318170,NM | **MPP7** | membrane palmitoylated | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 143162 | NM_001018071,NM | **FRMPD2** | FERM and PDZ domain | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 143187 | NM_001318203,NM | **VTI1A** | vesicle transport through | protein_coding | 28 | 23 | 29 | 24 | 0.837 |
| 143241 | NM_001269053,NM | **DYDC1** | DPY30 domain containin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143244 | NM_001099692 | **EIF5AL1** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 143279 | NM_001284274,NM | **HECTD2** | HECT domain E3 ubiquit | protein_coding | 2 | 1 | 3 | 2 | 0.846 |
| 143282 | NM_152429 | **FGFBP3** | fibroblast growth factor b | protein_coding | 4 | 4 | 5 | 5 | 0.978 |
| 143341 | gene-EIF3LP2 | **EIF3LP2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.142 |
| 143371 | gene-YWHAZP3 | **YWHAZP3** | tyrosine 3-monooxygena | pseudogene | 1 | 1 | 2 | 2 | 1.054 |
| 143379 | NM_001330142,NM | **C10orf82** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143384 | NM_153810 | **CACUL1** | CDK2 associated cullin c | protein_coding | 22 | 18 | 23 | 19 | 0.839 |
| 143425 | NM_175733,XM_01 | **SYT9** | synaptotagmin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143458 | NM_001304263,NM | **LDLRAD3** | low density lipoprotein re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143471 | NM_001025096,NM | **PSMA8** | proteasome 20S subunit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143496 | NM_001005161 | **OR52B4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143502 | NM_001005170 | **OR52I2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143503 | NM_152430 | **OR51E1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143543 | gene-RBMXP3 | **RBMXP3** | RBMX pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 143570 | NM_001270380,NM | **XRRA1** | X-ray radiation resistance | protein_coding | 23 | 20 | 24 | 21 | 0.898 |
| 143630 | NM_145053 | **UBQLNL** | ubiquilin like | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 143662 | NM_001135091,NM | **MUC15** | mucin 15, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143666 | NR_026967 | **LOC143666** | uncharacterized LOC143 | lncRNA | 0 | 0 | 1 | 1 | 1.083 |
| 143678 | NM_001080446 | **C11orf94** | chromosome 11 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.881 |
| 143684 | NM_001330357,NM | **FAM76B** | family with sequence sim | protein_coding | 20 | 18 | 21 | 19 | 0.934 |
| 143686 | NM_001271594,NM | **SESN3** | sestrin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143689 | NM_152431 | **PIWIL4** | piwi like RNA-mediated g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143872 | NM_001367945,NM | **ARHGAP42** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143879 | NM_001330359,NM | **KBTBD3** | kelch repeat and BTB do | protein_coding | 1 | 1 | 2 | 2 | 0.852 |
| 143884 | NM_152434,XM_01 | **CWF19L2** | CWF19 like cell cycle co | protein_coding | 20 | 15 | 21 | 16 | 0.750 |
| 143888 | NM_001363502,NM | **POGLUT3** | protein O-glucosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143903 | NM_001258390,NM | **LAYN** | layilin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 143941 | NM_001080441,NM | **TTC36** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 1.201 |
| 144097 | NM_138471,XM_00 | **SPINDOC** | spindlin interactor and re | protein_coding | 201 | 206 | 202 | 207 | 1.025 |
| 144100 | NM_001329630,NM | **PLEKHA7** | pleckstrin homology dom | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 144106 | gene-ST13P5 | **ST13P5** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 144108 | NM_194285,XM_01 | **SPTY2D1** | SPT2 chromatin protein d | protein_coding | 54 | 47 | 55 | 48 | 0.873 |
| 144110 | NM_153347 | **TMEM86A** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144124 | NM_178168 | **OR10A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144125 | NM_001004489 | **OR2AG1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144132 | NM_144666,NM_17 | **DNHD1** | dynein heavy chain dom | protein_coding | 2 | 2 | 3 | 3 | 0.922 |
| 144165 | NM_001144881,NM | **PRICKLE1** | prickle planar cell polarit | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 144193 | NM_152435 | **AMDHD1** | amidohydrolase domain | protein_coding | 1 | 2 | 2 | 3 | 1.110 |
| 144195 | NM_001286233,NM | **SLC2A14** | solute carrier family 2 me | protein_coding | 1 | 1 | 2 | 2 | 1.004 |
| 144203 | NR_153414 | **OVOS2** | alpha-2-macroglobulin lik | transcribed_pseu | 0 | 0 | 1 | 1 | 0.954 |
| 144233 | NM_181708 | **BCDIN3D** | BCDIN3 domain containi | protein_coding | 6 | 6 | 7 | 7 | 1.022 |
| 144245 | NM_001013620,NM | **ALG10B** | ALG10 alpha-1,2-glucosy | protein_coding | 6 | 5 | 7 | 6 | 0.792 |
| 144321 | NM_001270396,NM | **GLIPR1L2** | GLIPR1 like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144347 | NM_001365156,NM | **RFLNA** | refilin A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144348 | NM_001204298,NM | **ZNF664** | zinc finger protein 664 | protein_coding | 97 | 85 | 98 | 86 | 0.882 |
| 144360 | NR_029451 | **LINC00477** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144363 | NM_001001660,XM | **ETFRF1** | electron transfer flavopro | protein_coding | 13 | 12 | 14 | 13 | 0.908 |
| 144383 | gene-IFITM3P2 | **IFITM3P2** | IFITM3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 144402 | NM_153634,XM_01 | **CPNE8** | copine 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144404 | NM_001080825,XM | **TMEM120B** | transmembrane protein 1 | protein_coding | 8 | 8 | 9 | 9 | 0.995 |
| 144406 | NM_001178003,NM | **CFAP251** | cilia and flagella associat | protein_coding | 1 | 0 | 2 | 1 | 0.808 |
| 144423 | NM_001366886,NM | **GLT1D1** | glycosyltransferase 1 dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144448 | NM_001100917,XM | **TSPAN19** | tetraspanin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144453 | NM_001282613,NM | **BEST3** | bestrophin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144455 | NM_203394,XM_01 | **E2F7** | E2F transcription factor 7 | protein_coding | 8 | 8 | 9 | 9 | 0.966 |
| 144481 | NR_038263 | **SOCS2-AS1** | SOCS2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.091 |
| 144486 | NR_027035 | **CEP83-DT** | CEP83 divergent transcr | lncRNA | 2 | 1 | 3 | 2 | 0.829 |
| 144501 | NM_001081492,NM | **KRT80** | keratin 80 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144535 | NM_001306084,NM | **CFAP54** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.097 |
| 144568 | NM_001282424,NM | **A2ML1** | alpha-2-macroglobulin lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144571 | NR_026971,NR_137 | **A2M-AS1** | A2M antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144577 | NM_001300940,NM | **C12orf66** | chromosome 12 open rea | protein_coding | 7 | 7 | 8 | 8 | 1.038 |
| 144581 | gene-RPL14P1 | **RPL14P1** | ribosomal protein L14 ps | pseudogene | 12 | 13 | 13 | 14 | 1.088 |
| 144608 | NM_175874,XM_00 | **C12orf60** | chromosome 12 open rea | protein_coding | 2 | 2 | 3 | 3 | 0.868 |
| 144638 | gene-ST13P3 | **ST13P3** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 144699 | NM_152441,XM_01 | **FBXL14** | F-box and leucine rich re | protein_coding | 4 | 13 | 5 | 14 | 2.533 |
| 144712 | gene-HMGA1P3 | **HMGA1P3** | high mobility group AT-h | pseudogene | 4 | 5 | 5 | 6 | 1.125 |
| 144715 | NM_001286531,NM | **RAD9B** | RAD9 checkpoint clamp | protein_coding | 2 | 3 | 3 | 4 | 1.077 |
| 144717 | NM_001177996,NM | **PHETA1** | PH domain containing en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144742 | NR_024246 | **LINC00934** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144766 | NR_145420 | **LINC00355** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144776 | NR_027039 | **LINC00410** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144809 | NM_001318932,NM | **FAM216B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 144811 | NM_001128303,NM | **LACC1** | laccase domain containir | protein_coding | 4 | 4 | 5 | 5 | 0.927 |
| 144817 | NR_038433 | **LINC00330** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144832 | gene-ESRRAP2 | **ESRRAP2** | estrogen-related recepto | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 144847 | gene-ESRRAP1 | **ESRRAP1** | estrogen-related recepto | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 144920 | NR_046391,NR_12 | **LINC00343** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 144983 | NM_001011724,NM | **HNRNPA1L2** | heterogeneous nuclear r | protein_coding | 43 | 45 | 44 | 46 | 1.030 |
| 145165 | NR_002183 | **ST13P4** | ST13, Hsp70 interacting | transcribed_pseu | 1 | 0 | 2 | 1 | 0.883 |
| 145173 | NM_194318,XM_00 | **B3GLCT** | beta 3-glucosyltransfera | protein_coding | 1 | 1 | 2 | 2 | 1.038 |
| 145195 | NR_146611,NR_14 | **LINC02691** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 145200 | NR_026774 | **LINC00239** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145216 | NR_038436 | **LINC00637** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145226 | NM_152443 | **RDH12** | retinol dehydrogenase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145241 | NR_003951 | **ADAM21P1** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 0.866 |
| 145249 | NR_104113 | **LINC00618** | long intergenic non-prote | lncRNA | 1 | 2 | 2 | 3 | 1.314 |
| 145258 | NM_173849 | **GSC** | goosecoid homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145259 | gene-RPSAP4 | **RPSAP4** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 145264 | NM_001304461,NM | **SERPINA12** | serpin family A member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145270 | NM_178013,XM_01 | **PRIMA1** | proline rich membrane an | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145282 | NM_001195296,NM | **MIPOL1** | mirror-image polydactyly | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145370 | gene-RPL21P7 | **RPL21P7** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 145375 | gene-NUP50P1 | **NUP50P1** | nucleoporin 50 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 145376 | NM_172365,XM_00 | **PPP1R36** | protein phosphatase 1 re | protein_coding | 1 | 0 | 2 | 1 | 0.803 |
| 145389 | NM_001172702,NM | **SLC38A6** | solute carrier family 38 m | protein_coding | 2 | 3 | 3 | 4 | 1.212 |
| 145407 | NM_001001872,NM | **ARMH4** | armadillo like helical dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145438 | NR_037676 | **FRMD6-AS1** | FRMD6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.889 |
| 145447 | NM_001206673,NM | **ABHD12B** | abhydrolase domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145474 | NR_027046 | **LOC145474** | uncharacterized LOC145 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145482 | NM_001146154,NM | **PTGR2** | prostaglandin reductase | protein_coding | 1 | 1 | 2 | 2 | 1.105 |
| 145483 | NM_152445,XM_01 | **FAM161B** | FAM161 centrosomal pro | protein_coding | 3 | 3 | 4 | 4 | 1.086 |
| 145497 | NM_194287,XM_01 | **LRRC74A** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145499 | gene-RPLP1P1 | **RPLP1P1** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 145501 | NM_182509,NM_19 | **ISM2** | isthmin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.939 |
| 145508 | NM_152446,NR_15 | **CEP128** | centrosomal protein 128 | protein_coding | 7 | 7 | 8 | 8 | 0.966 |
| 145553 | NM_001199821,NM | **MDP1** | magnesium dependent p | protein_coding | 25 | 23 | 26 | 24 | 0.909 |
| 145567 | NM_001010854,NM | **TTC7B** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 0.994 |
| 145581 | NM_001330106,NM | **LRFN5** | leucine rich repeat and fi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145624 | NR_022009 | **PWAR1** | Prader Willi/Angelman re | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145645 | NM_152448,XM_01 | **TERB2** | telomere repeat binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145694 | NR_132969,NR_13 | **LOC145694** | uncharacterized LOC145 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 145741 | NM_207322 | **C2CD4A** | C2 calcium dependent d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145748 | NM_001284417,NM | **LYSMD4** | LysM domain containing | protein_coding | 1 | 1 | 2 | 2 | 1.068 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 145767 | gene-RPS3AP6 | **RPS3AP6** | RPS3A pseudogene 6 | pseudogene | 18 | 21 | 19 | 22 | 1.135 |
| 145773 | NM_152450,XM_00 | **FAM81A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145781 | NM_001018090,NM | **GCOM1** | GRINL1A complex locus | protein_coding | 0 | 0 | 1 | 1 | 1.129 |
| 145783 | NR_015419 | **LOC145783** | uncharacterized LOC145 | lncRNA | 0 | 1 | 1 | 2 | 1.184 |
| 145788 | NM_001198784 | **C15orf65** | chromosome 15 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.952 |
| 145814 | NM_001102612,NM | **PGPEP1L** | pyroglutamyl-peptidase I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145820 | NR_027132,NR_02 | **LINC00924** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145837 | NR_026979 | **DRAIC** | downregulated RNA in ca | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 145845 | NR_024264 | **LOC145845** | uncharacterized LOC145 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145853 | NM_001143936 | **C15orf61** | chromosome 15 open rea | protein_coding | 3 | 3 | 4 | 4 | 0.964 |
| 145858 | NR_161370,NR_16 | **C15orf32** | chromosome 15 putative | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145864 | NM_001307952,NM | **HAPLN3** | hyaluronan and proteogl | protein_coding | 0 | 0 | 1 | 1 | 0.808 |
| 145873 | NM_001039958 | **MESP2** | mesoderm posterior bHL | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145942 | NM_001330255,NM | **TMCO5A** | transmembrane and coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 145946 | NR_158220,NR_15 | **SPATA8** | spermatogenesis associa | lncRNA | 1 | 1 | 2 | 2 | 0.715 |
| 145957 | NM_138573,XM_01 | **NRG4** | neuregulin 4 | protein_coding | 1 | 1 | 2 | 2 | 0.813 |
| 145978 | NR_026869 | **LINC00052** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 145989 | gene-FSCN1P1 | **FSCN1P1** | fascin actin-bundling pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 146050 | NM_001372080,NM | **ZSCAN29** | zinc finger and SCAN do | protein_coding | 26 | 22 | 27 | 23 | 0.848 |
| 146053 | gene-RPS3AP47 | **RPS3AP47** | RPS3A pseudogene 47 | pseudogene | 1 | 2 | 2 | 3 | 1.082 |
| 146057 | NM_173500,XM_00 | **TTBK2** | tau tubulin kinase 2 | protein_coding | 8 | 6 | 9 | 7 | 0.756 |
| 146059 | NM_138477,XM_00 | **CDAN1** | codanin 1 | protein_coding | 19 | 18 | 20 | 19 | 0.944 |
| 146110 | gene-RPL7P47 | **RPL7P47** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.052 |
| 146167 | NM_001080442,XM | **SLC38A8** | solute carrier family 38 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146177 | NM_173615,XM_01 | **VWA3A** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 0.841 |
| 146183 | NM_001161683,NM | **OTOA** | otoancorin | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 146198 | NM_001305203,NM | **ZFP90** | ZFP90 zinc finger protein | protein_coding | 2 | 2 | 3 | 3 | 0.987 |
| 146206 | NM_001013838,NM | **CARMIL2** | capping protein regulato | protein_coding | 36 | 34 | 37 | 35 | 0.959 |
| 146212 | NM_001100915 | **KCTD19** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146223 | NM_178818,NM_18 | **CMTM4** | CKLF like MARVEL trans | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 146225 | NM_001199317,NM | **CMTM2** | CKLF like MARVEL trans | protein_coding | 1 | 1 | 2 | 2 | 0.942 |
| 146227 | NM_001136106,NM | **BEAN1** | brain expressed associat | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 146253 | gene-LOC146253 | **LOC146253** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 146279 | NM_144674 | **TEKT5** | tektin 5 | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 146310 | NM_001348711,NM | **RNF151** | ring finger protein 151 | protein_coding | 0 | 0 | 1 | 1 | 1.124 |
| 146325 | NM_145270,XM_01 | **PRR35** | proline rich 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146330 | NM_153350,XM_02 | **FBXL16** | F-box and leucine rich re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146336 | NR_027242 | **SSTR5-AS1** | SSTR5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 146378 | NM_001109659,NM | **C16orf92** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146395 | NM_001109763,NM | **GSG1L** | GSG1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146429 | NM_001366322,XM | **SLC22A31** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 146433 | NM_001172771,NM | **IL34** | interleukin 34 | protein_coding | 0 | 0 | 1 | 1 | 1.108 |
| 146434 | NM_152457 | **ZNF597** | zinc finger protein 597 | protein_coding | 3 | 3 | 4 | 4 | 1.054 |
| 146439 | NM_001103175,NM | **BICDL2** | BICD family like cargo ac | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 146456 | NM_144676 | **TMED6** | transmembrane p24 traff | protein_coding | 0 | 0 | 1 | 1 | 1.190 |
| 146481 | NR_026980 | **FRG2DP** | FSHD region gene 2 fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 146512 | NR_026674 | **FLJ30679** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.054 |
| 146513 | NR_038438 | **LINC02135** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 146540 | NM_152458,XM_01 | **ZNF785** | zinc finger protein 785 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146542 | NM_001024683,NM | **ZNF688** | zinc finger protein 688 | protein_coding | 10 | 14 | 11 | 15 | 1.317 |
| 146547 | NM_001258290,NM | **PRSS36** | serine protease 36 | protein_coding | 0 | 1 | 1 | 2 | 1.228 |
| 146556 | NM_001098514,NM | **C16orf89** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146562 | NM_139170,XM_00 | **C16orf71** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.089 |
| 146664 | NM_001199172,NM | **MGAT5B** | alpha-1,6-mannosylglyco | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146691 | NM_001033551,NM | **TOM1L2** | target of myb1 like 2 mer | protein_coding | 1 | 2 | 2 | 3 | 1.147 |
| 146705 | NM_001363764,NM | **TEPSIN** | TEPSIN adaptor related | protein_coding | 7 | 7 | 8 | 8 | 1.006 |
| 146712 | NM_001009905,NM | **B3GNTL1** | UDP-GlcNAc:betaGal be | protein_coding | 3 | 4 | 4 | 5 | 1.071 |
| 146713 | NM_001082575,NM | **RBFOX3** | RNA binding fox-1 homo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146722 | NM_001289082,NM | **CD300LF** | CD300 molecule like fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146723 | NM_001302809,NM | **C17orf77** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146754 | NM_001303270,NM | **DNAH2** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146760 | NM_178568 | **RTN4RL1** | reticulon 4 receptor like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146771 | NR_002947 | **TCAM1P** | testicular cell adhesion n | transcribed_pseu | 1 | 1 | 2 | 2 | 0.876 |
| 146779 | NM_001144933,NM | **EFCAB3** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146795 | NR_135222 | **LINC02003** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 146802 | NM_001099646,NM | **SLC47A2** | solute carrier family 47 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146822 | NM_001007530,NM | **CDRT15** | CMT1A duplicated regior | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146845 | NM_001080556,NM | **CFAP52** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146849 | NM_001158261,NM | **CCDC42** | coiled-coil domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146850 | NM_001010855,NM | **PIK3R6** | phosphoinositide-3-kinas | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 146852 | NM_001319953,NM | **ODF4** | outer dense fiber of sper | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146853 | NM_145272 | **C17orf50** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146857 | NM_144682,XM_00 | **SLFN13** | schlafen family member | protein_coding | 85 | 87 | 86 | 88 | 1.023 |
| 146861 | NM_152462 | **SLC35G3** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146862 | NM_001033576,NM | **UNC45B** | unc-45 myosin chaperon | protein_coding | 0 | 0 | 1 | 1 | 1.149 |
| 146880 | NR_027487 | **ARHGAP27P1** | Rho GTPase activating p | transcribed_pseu | 2 | 2 | 3 | 3 | 0.833 |
| 146894 | NM_001168322,NM | **CD300LG** | CD300 molecule like fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 146909 | NM_001264573,NM | **KIF18B** | kinesin family member 18 | protein_coding | 58 | 58 | 59 | 59 | 0.990 |
| 146923 | NM_001321381,NM | **RUNDC1** | RUN domain containing | protein_coding | 11 | 11 | 12 | 12 | 0.986 |
| 146956 | NM_001166131,NM | **EME1** | essential meiotic structur | protein_coding | 26 | 27 | 27 | 28 | 1.039 |
| 147004 | XR_001752837,XR_ | **LOC147004** | uncharacterized LOC147 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 147007 | NM_152464 | **TMEM199** | transmembrane protein 1 | protein_coding | 39 | 38 | 40 | 39 | 0.969 |
| 147011 | NM_001304949,NM | **PROCA1** | protein interacting with c | protein_coding | 0 | 0 | 1 | 1 | 1.097 |
| 147015 | NM_144683 | **DHRS13** | dehydrogenase/reductas | protein_coding | 23 | 23 | 24 | 24 | 1.002 |
| 147040 | NM_001002914,NM | **KCTD11** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.143 |
| 147081 | NR_026680,NR_02 | **LINC02210** | long intergenic non-prote | lncRNA | 21 | 17 | 22 | 18 | 0.860 |
| 147093 | NR_038442 | **LINC00974** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 147111 | NM_178493 | **NOTUM** | notum, palmitoleoyl-prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147138 | NM_152468,XM_01 | **TMC8** | transmembrane channel | protein_coding | 80 | 81 | 81 | 82 | 1.015 |
| 147150 | gene-UPF3AP2 | **UPF3AP2** | UPF3A pseudogene 2 | pseudogene | 1 | 1 | 2 | 2 | 0.958 |
| 147166 | NM_001037330,NM | **TRIM16L** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 147172 | gene-LRRC37BP1 | **LRRC37BP1** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 147179 | NM_133264,XM_00 | **WIPF2** | WAS/WASL interacting p | protein_coding | 20 | 17 | 21 | 18 | 0.896 |
| 147183 | NM_181534,XM_01 | **KRT25** | keratin 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147184 | NR_160886,NR_16 | **TMEM99** | transmembrane protein 9 | lncRNA | 12 | 11 | 13 | 12 | 0.903 |
| 147199 | NM_145651,XM_00 | **SCGB1C1** | secretoglobin family 1C r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147226 | gene-UPF3AP1 | **UPF3AP1** | UPF3A pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.024 |
| 147228 | NR_146392 | **KRT17P1** | keratin 17 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 147276 | NR_146617 | **C18orf15** | chromosome 18 putative | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 147323 | NM_001371101,NM | **STARD6** | StAR related lipid transfe | protein_coding | 0 | 1 | 1 | 2 | 1.164 |
| 147339 | NM_001008239,NM | **C18orf25** | chromosome 18 open rea | protein_coding | 22 | 19 | 23 | 20 | 0.859 |
| 147372 | NM_133459,XM_01 | **CCBE1** | collagen and calcium bin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147381 | NM_182511,XM_00 | **CBLN2** | cerebellin 2 precursor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147407 | NM_001034172 | **SLC25A52** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 147409 | NM_001134453,NM | **DSG4** | desmoglein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147429 | NR_026908 | **AQP4-AS1** | AQP4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 147463 | NM_001308238,NM | **ANKRD29** | ankyrin repeat domain 29 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147495 | NM_153000,XM_01 | **APCDD1** | APC down-regulated 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147525 | NR_026849 | **LINC00526** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.013 |
| 147645 | NM_001163922 | **VSIG10L** | V-set and immunoglobul | protein_coding | 2 | 1 | 3 | 2 | 0.806 |
| 147646 | NM_001193623,NR | **C19orf84** | chromosome 19 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 147650 | NM_001316972,NM | **SPACA6** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.109 |
| 147657 | NM_001297624,NM | **ZNF480** | zinc finger protein 480 | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 147658 | NM_001143938,NM | **ZNF534** | zinc finger protein 534 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147660 | NM_001099694,NM | **ZNF578** | zinc finger protein 578 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147664 | NM_152473 | **ERVV-1** | endogenous retrovirus gr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147670 | NM_001193628 | **SMIM17** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147685 | NM_152474 | **C19orf18** | chromosome 19 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147686 | NM_001317027,NM | **ZNF418** | zinc finger protein 418 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147687 | NM_001297734,NM | **ZNF417** | zinc finger protein 417 | protein_coding | 3 | 2 | 4 | 3 | 0.818 |
| 147694 | NM_001172773,NM | **ZNF548** | zinc finger protein 548 | protein_coding | 8 | 8 | 9 | 9 | 1.046 |
| 147699 | NM_001080401,XR | **PPM1N** | protein phosphatase, Mg | protein_coding | 0 | 0 | 1 | 1 | 1.142 |
| 147700 | NM_177417,XM_02 | **KLC3** | kinesin light chain 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147710 | NM_001205280,XM | **IGSF23** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147711 | gene-ZNF285B | **ZNF285B** | zinc finger protein 285B | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 147719 | NM_001291419,NM | **LYPD4** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 147727 | NR_024333 | **ILF3-DT** | ILF3 divergent transcript | lncRNA | 42 | 41 | 43 | 42 | 0.974 |
| 147741 | NM_001351678,NM | **ZNF560** | zinc finger protein 560 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147744 | NM_139172,XM_01 | **TMEM190** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147746 | NM_144685,XM_00 | **HIPK4** | homeodomain interacting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147798 | NM_001145303,NM | **TMC4** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 0.958 |
| 147804 | NR_003148 | **TPM3P9** | tropomyosin 3 pseudoge | transcribed_pseu | 2 | 2 | 3 | 3 | 1.181 |
| 147807 | NM_153219,XM_01 | **ZNF524** | zinc finger protein 524 | protein_coding | 12 | 11 | 13 | 12 | 0.938 |
| 147808 | NM_203374 | **ZNF784** | zinc finger protein 784 | protein_coding | 1 | 2 | 2 | 3 | 1.196 |
| 147837 | NM_001363608,NM | **ZNF563** | zinc finger protein 563 | protein_coding | 0 | 0 | 1 | 1 | 0.937 |
| 147841 | NM_001317031,NM | **SPC24** | SPC24 component of NE | protein_coding | 65 | 64 | 66 | 65 | 0.984 |
| 147872 | NM_144688,XM_00 | **KASH5** | KASH domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147906 | NM_001301046,NM | **DACT3** | dishevelled binding anta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147912 | NM_175875 | **SIX5** | SIX homeobox 5 | protein_coding | 1 | 1 | 2 | 2 | 1.062 |
| 147920 | NM_001002915,NM | **IGFL2** | IGF like family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147923 | NM_001329515,NM | **ZNF420** | zinc finger protein 420 | protein_coding | 3 | 2 | 4 | 3 | 0.780 |
| 147929 | NM_001042474,NM | **ZNF565** | zinc finger protein 565 | protein_coding | 2 | 1 | 3 | 2 | 0.755 |
| 147945 | NM_134444,XM_01 | **NLRP4** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147947 | NR_003127,NR_02 | **ZNF542P** | zinc finger protein 542, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 147948 | NM_001320371,NM | **ZNF582** | zinc finger protein 582 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147949 | NM_001159860,NM | **ZNF583** | zinc finger protein 583 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 147965 | NM_001351675,NM | **FAM98C** | family with sequence sim | protein_coding | 14 | 14 | 15 | 15 | 1.000 |
| 147968 | NM_144691,XM_01 | **CAPN12** | calpain 12 | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 147991 | NM_001172774,NM | **DPY19L3** | dpy-19 like C-mannosylti | protein_coding | 14 | 14 | 15 | 15 | 0.973 |
| 148003 | NM_001190441 | **LGALS16** | galectin 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148014 | NM_152479,XM_01 | **TTC9B** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148022 | NM_182919 | **TICAM1** | toll like receptor adaptor | protein_coding | 23 | 26 | 24 | 27 | 1.149 |
| 148046 | NR_027271 | **CIRBP-AS1** | CIRBP antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.111 |
| 148066 | NM_181710 | **ZNRF4** | zinc and ring finger 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148103 | NM_001007248,XM | **ZNF599** | zinc finger protein 599 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148109 | NM_152481 | **FAM187B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148113 | NM_153221 | **CILP2** | cartilage intermediate lay | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 148137 | NM_001039887,NM | **PROSER3** | proline and serine rich 3 | protein_coding | 13 | 14 | 14 | 15 | 1.039 |
| 148145 | NR_027318 | **LINC00906** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 148156 | NM_001304350,NM | **ZNF558** | zinc finger protein 558 | protein_coding | 10 | 8 | 11 | 9 | 0.780 |
| 148170 | NM_145057 | **CDC42EP5** | CDC42 effector protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148189 | NR_027301 | **LINC00662** | long intergenic non-prote | lncRNA | 4 | 5 | 5 | 6 | 1.085 |
| 148198 | NM_001098626 | **ZNF98** | zinc finger protein 98 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148203 | NM_001355237,NM | **ZNF738** | zinc finger protein 738 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148206 | NM_182515,NR_11 | **ZNF714** | zinc finger protein 714 | protein_coding | 1 | 1 | 2 | 2 | 0.905 |
| 148213 | NM_138286 | **ZNF681** | zinc finger protein 681 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148223 | NM_152482,XM_00 | **C19orf25** | chromosome 19 open rea | protein_coding | 40 | 38 | 41 | 39 | 0.957 |
| 148229 | NM_001178002,NM | **ATP8B3** | ATPase phospholipid tra | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 148231 | NR_024335,NR_11 | **LINC00905** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 148252 | NM_145173,XM_01 | **DIRAS1** | DIRAS family GTPase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 148254 | NM_001172775,NM | **ZNF555** | zinc finger protein 555 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148266 | NM_001330482,NM | **ZNF569** | zinc finger protein 569 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148268 | NM_001300993,NM | **ZNF570** | zinc finger protein 570 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148281 | NM_001253772,NM | **SYT6** | synaptotagmin 6 | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 148304 | NM_152485 | **C1orf74** | chromosome 1 open rea | protein_coding | 7 | 6 | 8 | 7 | 0.906 |
| 148327 | NM_001255978,NM | **CREB3L4** | cAMP responsive elemer | protein_coding | 3 | 5 | 4 | 6 | 1.443 |
| 148345 | NM_001170754,NM | **C1orf127** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148362 | NM_001288579,NM | **BROX** | BRO1 domain and CAAX | protein_coding | 25 | 26 | 26 | 27 | 1.012 |
| 148398 | NM_152486 | **SAMD11** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 148413 | NR_015434 | **MRPL20-AS1** | MRPL20 antisense RNA | lncRNA | 36 | 38 | 37 | 39 | 1.044 |
| 148418 | NM_001010971,NM | **SAMD13** | sterile alpha motif domai | protein_coding | 0 | 1 | 1 | 2 | 1.043 |
| 148423 | NM_198077,NR_02 | **C1orf52** | chromosome 1 open rea | protein_coding | 33 | 32 | 34 | 33 | 0.964 |
| 148430 | gene-LOC148430 | **LOC148430** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 148479 | NM_153812,XM_01 | **PHF13** | PHD finger protein 13 | protein_coding | 15 | 16 | 16 | 17 | 1.029 |
| 148523 | NM_001300838,NM | **CIART** | circadian associated repr | protein_coding | 0 | 0 | 1 | 1 | 0.927 |
| 148534 | NM_001199679,NM | **TLCD4** | TLC domain containing 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148545 | NM_001143989,XM | **NBPF4** | NBPF member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148581 | NM_001366232,NM | **UBE2U** | ubiquitin conjugating en | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148641 | NM_001300845,NM | **SLC35F3** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 148645 | NR_103534 | **LINC00337** | long intergenic non-prote | lncRNA | 5 | 5 | 6 | 6 | 1.116 |
| 148696 | NR_026817 | **LOC148696** | uncharacterized LOC148 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 148709 | NR_002929 | **ACTG1P25** | actin gamma 1 pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 148713 | NR_002930 | **PTPRVP** | protein tyrosine phospha | transcribed_pseu | 0 | 1 | 1 | 2 | 1.056 |
| 148738 | NM_001316767,NM | **HJV** | hemojuvelin BMP co-rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148741 | NM_001280799,NM | **ANKRD35** | ankyrin repeat domain 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148753 | NM_001329712,NM | **FAM163A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 148756 | NR_125716 | **OVAAL** | ovarian adenocarcinoma | lncRNA | 125 | 110 | 126 | 111 | 0.882 |
| 148789 | NM_001277155,NM | **B3GALNT2** | beta-1,3-N-acetylgalacto | protein_coding | 14 | 14 | 15 | 15 | 1.005 |
| 148808 | NM_181644,XM_01 | **MFSD4A** | major facilitator superfam | protein_coding | 1 | 1 | 2 | 2 | 1.080 |
| 148811 | NM_152491,NR_13 | **PM20D1** | peptidase M20 domain c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148818 | gene-HSD17B7P1 | **HSD17B7P1** | hydroxysteroid 17-beta d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 148823 | NM_001281834,NM | **GCSAML** | germinal center associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148824 | NR_027309 | **GCSAML-AS1** | GCSAML antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 148867 | NM_001144884,NM | **SLC30A7** | solute carrier family 30 m | protein_coding | 10 | 8 | 11 | 9 | 0.823 |
| 148870 | NM_152492,XM_01 | **CCDC27** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148898 | NR_033690,NR_03 | **ZNF436-AS1** | ZNF436 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.077 |
| 148930 | NM_001097611,NM | **KNCN** | kinocilin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 148932 | NM_145279,NM_20 | **MOB3C** | MOB kinase activator 3C | protein_coding | 11 | 11 | 12 | 12 | 0.978 |
| 148979 | NM_001367484,NM | **GLIS1** | GLIS family zinc finger 1 | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 149013 | NM_001278141,XM | **NBPF12** | NBPF member 12 | protein_coding | 11 | 8 | 12 | 9 | 0.751 |
| 149018 | NM_001010857 | **LELP1** | late cornified envelope lil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149041 | NM_001300850,NM | **RC3H1** | ring finger and CCCH-typ | protein_coding | 12 | 9 | 13 | 10 | 0.826 |
| 149047 | NR_027310 | **MGC27382** | uncharacterized MGC27 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 149069 | NM_001099434,XM | **DCDC2B** | doublecortin domain con | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 149076 | NM_001370212,NM | **ZNF362** | zinc finger protein 362 | protein_coding | 1 | 1 | 2 | 2 | 1.101 |
| 149086 | NR_034112 | **LDC1P** | leucine decarboxylase 1, | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 149095 | NM_001143687,NM | **DCST1** | DC-STAMP domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149111 | NM_001322302,NM | **CNIH3** | cornichon family AMPA r | protein_coding | 1 | 1 | 2 | 2 | 1.153 |
| 149134 | NR_015422 | **LINC01341** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 149175 | NM_001031740,NM | **MANEAL** | mannosidase endo-alpha | protein_coding | 59 | 63 | 60 | 64 | 1.073 |
| 149224 | gene-RPS7P4 | **RPS7P4** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 149233 | NM_144701,XM_00 | **IL23R** | interleukin 23 receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149281 | NM_001136107,XM | **METTL11B** | methyltransferase like 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149297 | NM_001017961,NM | **FAM78B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149345 | NM_198149,NR_03 | **SHISA4** | shisa family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.063 |
| 149371 | NM_175876 | **EXOC8** | exocyst complex compor | protein_coding | 13 | 11 | 14 | 12 | 0.892 |
| 149373 | NR_166514 | **TRIM67-AS1** | TRIM67 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 149420 | NM_001243532,NM | **PDIK1L** | PDLIM1 interacting kinas | protein_coding | 17 | 15 | 18 | 16 | 0.858 |
| 149428 | NM_001159642,NM | **BNIPL** | BCL2 interacting protein | protein_coding | 0 | 1 | 1 | 2 | 1.027 |
| 149461 | NM_001123395,NM | **CLDN19** | claudin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149465 | NM_001167965,NM | **CFAP57** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 149466 | NM_001164829,NM | **C1orf210** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149473 | NM_001349127,NM | **CCDC24** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 1.287 |
| 149478 | NM_001136537,XM | **BTBD19** | BTB domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 149483 | NM_001114938,NM | **CCDC17** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 0.875 |
| 149499 | NM_144702,XM_00 | **LRRC71** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149501 | gene-KRT8P45 | **KRT8P45** | keratin 8 pseudogene 45 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 149563 | NM_178840 | **SRARP** | steroid receptor associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149603 | NM_001010858 | **RNF187** | ring finger protein 187 | protein_coding | 55 | 60 | 56 | 61 | 1.091 |
| 149620 | NR_003928 | **CHIAP2** | chitinase, acidic pseudog | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 149628 | NM_152501,NM_19 | **PYHIN1** | pyrin and HIN domain fa | protein_coding | 40 | 33 | 41 | 34 | 0.831 |
| 149643 | NM_001024601 | **SPATA45** | spermatogenesis associa | protein_coding | 1 | 1 | 2 | 2 | 1.104 |
| 149647 | NM_153606 | **FAM71A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149684 | NR_104170 | **LOC149684** | uncharacterized LOC149 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 149685 | NM_001018082,NR | **ADIG** | adipogenin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149699 | NM_001008901,NM | **GTSF1L** | gametocyte specific fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149708 | NM_145652,XM_01 | **WFDC5** | WAP four-disulfide core d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149773 | NR_034147 | **APCDD1L-DT** | APCDD1L divergent tran | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 149775 | NR_002785 | **GNAS-AS1** | GNAS antisense RNA 1 | antisense_RNA | 11 | 10 | 12 | 11 | 0.951 |
| 149830 | NR_024267,NR_02 | **PRNT** | prion locus lncRNA, testi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 149837 | NR_015406 | **LINC00654** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.074 |
| 149840 | NM_001303477,NM | **SHLD1** | shieldin complex subunit | protein_coding | 14 | 13 | 15 | 14 | 0.894 |

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|---|---|---|---|---|---|---|---|---|---|
| 149844 | gene-LOC149844 | **LOC149844** | synaptotagmin binding c | pseudogene | 1 | 1 | 2 | 2 | 0.886 |
| 149934 | NR_003678 | **NCOR1P1** | NCOR1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 149935 | gene-LOC149935 | **LOC149935** | CDK5 regulatory subunit | pseudogene | 0 | 0 | 1 | 1 | 1.027 |
| 149950 | NR_034152 | **NOL4L-DT** | NOL4L divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 149951 | NM_001099339,NM | **COMMD7** | COMM domain containin | protein_coding | 92 | 89 | 93 | 90 | 0.967 |
| 149954 | NM_182519 | **BPIFB4** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 149986 | NM_144703,XM_005 | **LSM14B** | LSM family member 14B | protein_coding | 70 | 69 | 71 | 70 | 0.981 |
| 149992 | NR_026916 | **ANKRD30BP2** | ankyrin repeat domain 30 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 149998 | NM_001302998,NM | **LIPI** | lipase I | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 150000 | NR_003087,NR_003 | **ABCC13** | ATP binding cassette sul | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 150051 | NM_001321023 | **LOC150051** | uncharacterized LOC150 | protein_coding | 4 | 4 | 5 | 5 | 0.910 |
| 150082 | NM_152505,XM_005 | **LCA5L** | lebercilin LCA5 like | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 150084 | NM_001080444,XM_ | **IGSF5** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150094 | NM_173354,XM_01 | **SIK1** | salt inducible kinase 1 | protein_coding | 2 | 2 | 3 | 3 | 1.023 |
| 150135 | NR_027272 | **LINC00479** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150142 | NR_027273,NR_119 | **ZNF295-AS1** | ZNF295 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150147 | NR_027243 | **UMODL1-AS1** | UMODL1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150159 | NM_001100874,NM | **SLC9B1** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 150160 | NM_014406 | **CCT8L2** | chaperonin containing TC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150165 | NM_001318251,NM | **XKR3** | XK related 3 | protein_coding | 10 | 9 | 11 | 10 | 0.889 |
| 150185 | NR_024381 | **LINC00895** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150197 | NR_026919 | **LINC00896** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.114 |
| 150209 | NM_001018060,NM | **AIFM3** | apoptosis inducing factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150221 | NM_001128633 | **RIMBP3C** | RIMS binding protein 3C | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 150223 | NM_001017964,NM | **YDJC** | YdjC chitooligosaccharid | protein_coding | 61 | 70 | 62 | 71 | 1.155 |
| 150244 | NR_003950 | **ZDHHC8P1** | ZDHHC8 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 150248 | NM_001331041,NM | **C22orf15** | chromosome 22 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150274 | NM_001318314,NM | **HSCB** | HscB mitochondrial iron- | protein_coding | 29 | 31 | 30 | 32 | 1.045 |
| 150275 | NM_001284263,NM | **CCDC117** | coiled-coil domain contai | protein_coding | 49 | 42 | 50 | 43 | 0.855 |
| 150280 | NM_001329457,NM | **HORMAD2** | HORMA domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150290 | NM_001304794,NM | **DUSP18** | dual specificity phosphat | protein_coding | 4 | 3 | 5 | 4 | 0.860 |
| 150291 | NR_026920 | **MORC2-AS1** | MORC2 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 0.893 |
| 150297 | NM_001010859,XM_ | **C22orf42** | chromosome 22 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150350 | NM_152512,XM_00 | **ENTHD1** | ENTH domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150353 | NM_145174 | **DNAJB7** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150356 | NM_138481,XM_01 | **CHADL** | chondroadherin like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150365 | NM_152513,XM_01 | **MEI1** | meiotic double-stranded | protein_coding | 3 | 2 | 4 | 3 | 0.963 |
| 150368 | NM_001002034,XM | **PHETA2** | PH domain containing er | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150372 | NM_001318323,NM | **NFAM1** | NFAT activating protein v | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150379 | NM_001177675,NM | **PNPLA5** | patatin like phospholipas | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 150381 | NR_027034 | **PRR34-AS1** | PRR34 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150383 | NM_207327,XM_01 | **CDPF1** | cysteine rich DPF motif c | protein_coding | 8 | 10 | 9 | 11 | 1.225 |
| 150384 | NR_024009 | **GTSE1-DT** | GTSE1 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.105 |
| 150417 | gene-LOC150417 | **LOC150417** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 150465 | NM_001371712,NM | **TTL** | tubulin tyrosine ligase | protein_coding | 14 | 16 | 15 | 17 | 1.118 |
| 150468 | NM_001304361,NM | **CKAP2L** | cytoskeleton associated | protein_coding | 103 | 82 | 104 | 83 | 0.799 |
| 150472 | NM_001330336,NM | **CBWD2** | COBW domain containin | protein_coding | 67 | 65 | 68 | 66 | 0.958 |
| 150478 | gene-SNRPA1P1 | **SNRPA1P1** | SNRPA1 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.099 |
| 150483 | NM_001286559,NM | **TEKT4** | tektin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150527 | NR_027313,NR_027 | **PRSS40A** | serine protease 40A (pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 150538 | NR_026830 | **SATB2-AS1** | SATB2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150554 | gene-YWHAZP2 | **YWHAZP2** | tyrosine 3-monooxygena | pseudogene | 1 | 1 | 2 | 2 | 1.073 |
| 150568 | NR_015399 | **LINC01102** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150572 | NM_001330364,NM | **SMYD1** | SET and MYND domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150577 | NR_103730 | **LINC01104** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150590 | NM_001317992,NM | **C2orf15** | chromosome 2 open rea | protein_coding | 2 | 2 | 3 | 3 | 0.929 |
| 150596 | NR_145421 | **LINC01931** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150622 | NR_026832 | **SILC1** | sciatic injury induced linc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150677 | NM_148961,XM_01 | **OTOS** | otospiralin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150678 | NM_001163424,NM | **COPS9** | COP9 signalosome subu | protein_coding | 272 | 268 | 273 | 269 | 0.985 |
| 150681 | NM_173351,XM_01 | **OR6B3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150684 | NM_001321781,NM | **COMMD1** | copper metabolism doma | protein_coding | 33 | 34 | 34 | 35 | 1.029 |
| 150696 | NM_001165977,NM | **PROM2** | prominin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 150709 | NM_001378068,NM | **ANKAR** | ankyrin and armadillo rep | protein_coding | 3 | 2 | 4 | 3 | 0.752 |
| 150726 | NM_001080410,NM | **FBXO41** | F-box protein 41 | protein_coding | 38 | 38 | 39 | 39 | 1.008 |
| 150737 | NM_152517 | **TTC30B** | tetratricopeptide repeat c | protein_coding | 1 | 2 | 2 | 3 | 1.335 |
| 150759 | NR_103734 | **LINC00342** | long intergenic non-prote | lncRNA | 5 | 4 | 6 | 5 | 0.793 |
| 150763 | NM_001321525,NM | **GPAT2** | glycerol-3-phosphate acy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150771 | NM_001008949,NM | **ITPRIPL1** | ITPRIP like 1 | protein_coding | 83 | 76 | 84 | 77 | 0.919 |
| 150776 | NR_026922 | **SMPD4BP** | sphingomyelin phosphoc | transcribed_pseu | 15 | 16 | 16 | 17 | 1.027 |
| 150786 | NM_001077637 | **RAB6D** | RAB6D, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 150864 | NM_173511 | **FAM117B** | family with sequence sim | protein_coding | 3 | 3 | 4 | 4 | 0.956 |
| 150921 | NM_175769,XM_005 | **TCF23** | transcription factor 23 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 150935 | NR_037808 | **LOC150935** | uncharacterized LOC150 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 150946 | NM_001168241,NM | **GAREM2** | GRB2 associated regulat | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 150947 | gene-PPIL1P1 | **PPIL1P1** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 150962 | NM_001322123,NM | **PUS10** | pseudouridine synthase | protein_coding | 9 | 8 | 10 | 9 | 0.879 |
| 150967 | NR_037701 | **LINC01963** | long intergenic non-prote | lncRNA | 13 | 16 | 14 | 17 | 1.203 |
| 150992 | NR_033837 | **LINC00309** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151009 | NR_027244 | **LINC01106** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151011 | NM_001321496,NM | **SEPTIN10** | septin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151050 | NM_001307976,NM | **KANSL1L** | KAT8 regulatory NSL cor | protein_coding | 0 | 0 | 1 | 1 | 0.794 |
| 151056 | NM_001170585,NM | **PLB1** | phospholipase B1 | protein_coding | 0 | 0 | 1 | 1 | 0.869 |
| 151112 | NM_182521,XR_002 | **ZSWIM2** | zinc finger SWIM-type cc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151121 | NR_122040,NR_122 | **LINC01854** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151126 | NM_001113397,NM | **ZNF385B** | zinc finger protein 385B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151171 | NR_037809 | **LINC01107** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151174 | NR_026925,NR_026 | **LINC02610** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151176 | NM_001291832 | **ERFE** | erythroferrone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151188 | NM_001350068,NM | **ARL6IP6** | ADP ribosylation factor li | protein_coding | 52 | 50 | 53 | 51 | 0.973 |
| 151194 | NM_001127395,NM | **METTL21A** | methyltransferase like 21 | protein_coding | 36 | 37 | 37 | 38 | 1.035 |
| 151195 | NM_001142300,NM | **CCNYL1** | cyclin Y like 1 | protein_coding | 11 | 12 | 12 | 13 | 1.062 |
| 151230 | NM_144711 | **KLHL23** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151234 | NR_037191 | **SULT1C2P1** | sulfotransferase family 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 151242 | NM_001080545,NM | **PPP1R1C** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151246 | NM_001160033,NM | **SGO2** | shugoshin 2 | protein_coding | 78 | 60 | 79 | 61 | 0.772 |
| 151254 | NM_001168216,NM | **C2CD6** | C2 calcium dependent d | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 151258 | NM_001199148,NM | **SLC38A11** | solute carrier family 38 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151276 | gene-TXNP5 | **TXNP5** | thioredoxin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 151278 | NR_161172 | **CCDC140** | CCDC140 long non-codi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151295 | NM_001144889,NM | **SLC23A3** | solute carrier family 23 m | protein_coding | 0 | 0 | 1 | 1 | 1.202 |
| 151300 | NR_015390,NR_024 | **LINC00608** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151306 | NM_001077191,NM | **GPBAR1** | G protein-coupled bile ac | protein_coding | 0 | 0 | 1 | 1 | 0.946 |
| 151313 | NM_001320848,NM | **FAHD2B** | fumarylacetoacetate hyd | protein_coding | 28 | 27 | 29 | 28 | 0.940 |
| 151325 | NR_003143 | **MYADML** | myeloid associated differ | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 151354 | NM_001369364,NM | **LRATD1** | LRAT domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151393 | NM_001170791,NM | **RMDN2** | regulator of microtubule | protein_coding | 1 | 1 | 2 | 2 | 1.238 |
| 151449 | NM_182828 | **GDF7** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151457 | gene-DRG1P1 | **DRG1P1** | DRG1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 151473 | NM_152527,XM_005 | **SLC16A14** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151475 | NR_040038 | **LINC01907** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151477 | NR_024079 | **LINC00471** | long intergenic non-prote | lncRNA | 6 | 6 | 7 | 7 | 0.962 |
| 151484 | NR_038238 | **GCSIR** | GPR55 cis regulatory su | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151507 | NR_024322 | **MSL3P1** | MSL complex subunit 3 p | transcribed_pseu | 49 | 44 | 50 | 45 | 0.909 |
| 151516 | NM_152792 | **ASPRV1** | aspartic peptidase retrov | protein_coding | 2 | 2 | 3 | 3 | 1.223 |
| 151525 | NM_001128212,NM | **WDSUB1** | WD repeat, sterile alpha | protein_coding | 9 | 11 | 10 | 12 | 1.178 |
| 151531 | NM_001135098,NM | **UPP2** | uridine phosphorylase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151534 | NR_024606,NR_152 | **LBX2-AS1** | LBX2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.062 |
| 151556 | NM_001033045,NM | **GPR155** | G protein-coupled recep | protein_coding | 3 | 2 | 4 | 3 | 0.769 |
| 151579 | gene-BZW1P2 | **BZW1P2** | basic leucine zipper and | pseudogene | 108 | 96 | 109 | 97 | 0.894 |
| 151613 | NM_001042601,NM | **TTC14** | tetratricopeptide repeat c | protein_coding | 49 | 42 | 50 | 43 | 0.860 |
| 151636 | NM_138287 | **DTX3L** | deltex E3 ubiquitin ligase | protein_coding | 122 | 100 | 123 | 101 | 0.821 |
| 151645 | gene-PSMC1P1 | **PSMC1P1** | proteasome 26S subunit | pseudogene | 7 | 7 | 8 | 8 | 0.982 |
| 151647 | NM_001005527,NM | **TAFA4** | TAFA chemokine like fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151648 | NM_001012409,NM | **SGO1** | shugoshin 1 | protein_coding | 33 | 34 | 34 | 35 | 1.023 |
| 151649 | NM_001252657,NR | **PP2D1** | protein phosphatase 2C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 151651 | NM_001330688,NM | **EFHB** | EF-hand domain family r | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 151658 | NR_015414,NR_02 | **LINC00635** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151742 | NM_001317911,NM | **PPM1L** | protein phosphatase, Mg | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151760 | XR_001740844,XR_ | **LOC151760** | putative uncharacterized | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 151790 | NM_001348951,NM | **WDR49** | WD repeat domain 49 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151825 | gene-KRT18P43 | **KRT18P43** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 151827 | NM_001172779,NM | **LRRC34** | leucine rich repeat conta | protein_coding | 2 | 2 | 3 | 3 | 0.802 |
| 151835 | NM_001308388,NM | **CPNE9** | copine family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.025 |
| 151842 | gene-PP1P | **PP1P** | pyrophosphatase (inorga | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 151871 | NM_138815,XM_01 | **DPPA2** | developmental pluripoter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 151877 | NR_145422 | **MAGI1-IT1** | MAGI1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 151887 | NM_199511,NM_19 | **CCDC80** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 151888 | NM_001085357,NM | **BTLA** | B and T lymphocyte ass | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 151903 | NM_001277074,NM | **CCDC12** | coiled-coil domain contai | protein_coding | 80 | 78 | 81 | 79 | 0.978 |
| 151963 | NM_178496 | **MB21D2** | Mab-21 domain containir | protein_coding | 30 | 31 | 31 | 32 | 1.043 |
| 151987 | NM_001318025,NM | **PPP4R2** | protein phosphatase 4 re | protein_coding | 66 | 55 | 67 | 56 | 0.831 |
| 152002 | NM_001308069,NM | **XXYLT1** | xyloside xylosyltransfera | protein_coding | 19 | 17 | 20 | 18 | 0.892 |
| 152006 | NM_022781,NM_19 | **RNF38** | ring finger protein 38 | protein_coding | 17 | 17 | 18 | 18 | 0.999 |
| 152007 | NM_001287010,NM | **GLIPR2** | GLI pathogenesis relatec | protein_coding | 22 | 18 | 23 | 19 | 0.806 |
| 152015 | NM_001012337,NM | **ROPN1B** | rhophilin associated tail | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152024 | NR_026834 | **LINC00691** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152048 | NR_149029 | **LOC152048** | uncharacterized FLJ317 | lncRNA | 0 | 0 | 1 | 1 | 1.225 |
| 152065 | NM_152533,NR_13 | **C3orf22** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152078 | NR_024016,NR_16 | **SLC66A1L** | solute carrier family 66 r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 152098 | NM_001040432,NM | **ZCWPW2** | zinc finger CW-type and | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 152100 | NM_001331185,NM | **CMC1** | C-X9-C motif containing | protein_coding | 39 | 47 | 40 | 48 | 1.213 |
| 152110 | NM_001031741,NM | **NEK10** | NIMA related kinase 10 | protein_coding | 1 | 0 | 2 | 1 | 0.830 |
| 152118 | NR_160966 | **LINC02877** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152137 | NM_174908,NM_17 | **CCDC50** | coiled-coil domain contai | protein_coding | 9 | 8 | 10 | 9 | 0.918 |
| 152138 | NM_001083308 | **PYDC2** | pyrin domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152185 | NM_001331078,NM | **SPICE1** | spindle and centriole ass | protein_coding | 9 | 8 | 10 | 9 | 0.871 |
| 152189 | NM_001320308,NM | **CMTM8** | CKLF like MARVEL trans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152195 | NR_002949,NR_02 | **NUDT16P1** | nudix hydrolase 16 pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 152206 | NM_144719,XM_00 | **CCDC13** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.910 |
| 152217 | NM_001355243 | **NCBP2AS2** | NCBP2 antisense 2 (hea | protein_coding | 54 | 57 | 55 | 58 | 1.041 |
| 152225 | NR_026934 | **LINC02085** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152273 | NM_001320276,NM | **FGD5** | FYVE, RhoGEF and PH | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152274 | NR_135245 | **LINC02011** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152302 | NR_002786 | **CIDECP1** | cell death inducing DFF/ | transcribed_pseu | 19 | 20 | 20 | 21 | 1.071 |
| 152330 | NM_001206955,NM | **CNTN4** | contactin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152404 | NM_001015887,NM | **IGSF11** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 152405 | NM_152539 | **TEX55** | testis expressed 55 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152485 | NM_001306215,NM | **ZNF827** | zinc finger protein 827 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152503 | NM_001009555,NM | **SH3D19** | SH3 domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152518 | NM_001278623,NM | **NFXL1** | nuclear transcription fact | protein_coding | 13 | 12 | 14 | 13 | 0.899 |
| 152519 | NM_207330,XM_01 | **NIPAL1** | NIPA like domain contair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152559 | NM_001040202,NM | **PAQR3** | progestin and adipoQ re | protein_coding | 21 | 24 | 22 | 25 | 1.173 |
| 152573 | NM_001080505 | **SHISA3** | shisa family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152578 | NR_040106 | **LINC01618** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152579 | NM_152540,XM_01 | **SCFD2** | sec1 family domain conta | protein_coding | 6 | 7 | 7 | 8 | 1.092 |
| 152586 | NM_001277353,XM | **MGAT4D** | MGAT4 family member D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152594 | gene-LOC152594 | **LOC152594** | NIN1 (RPN12) binding pr | pseudogene | 0 | 0 | 1 | 1 | 1.088 |
| 152641 | NR_024008 | **WWC2-AS2** | WWC2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152663 | gene-RPL7AP27 | **RPL7AP27** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 152667 | gene-FAM192BP | **FAM192BP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 0.860 |
| 152687 | NM_001286052,NM | **ZNF595** | zinc finger protein 595 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152709 | gene-ARL4AP2 | **ARL4AP2** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 152742 | NR_033931 | **LINC01085** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 152756 | NR_160935 | **FAM218A** | family with sequence sim | lncRNA | 1 | 1 | 2 | 2 | 0.888 |
| 152789 | NM_001099433,NM | **JAKMIP1** | janus kinase and microtu | protein_coding | 53 | 57 | 54 | 58 | 1.059 |
| 152815 | NM_001317791,NM | **THAP6** | THAP domain containing | protein_coding | 13 | 12 | 14 | 13 | 0.962 |
| 152816 | NM_001206981,NM | **ODAPH** | odontogenesis associate | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 152831 | NM_175737 | **KLB** | klotho beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152845 | gene-LOC152845 | **LOC152845** | PLAG1 like zinc finger 2 | pseudogene | 0 | 0 | 1 | 1 | 1.040 |
| 152877 | NM_001013622,NM | **FAM53A** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 0.928 |
| 152905 | gene-RTN3P1 | **RTN3P1** | reticulon 3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 152926 | NM_152542,XM_00 | **PPM1K** | protein phosphatase, Mg | protein_coding | 5 | 4 | 6 | 5 | 0.891 |
| 152940 | NM_152543,XM_01 | **C4orf45** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 152992 | NM_001350233,NM | **TRMT44** | tRNA methyltransferase | protein_coding | 10 | 10 | 11 | 11 | 1.028 |
| 153020 | NM_001300735,NM | **RASGEF1B** | RasGEF domain family r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153090 | NM_032552,NM_13 | **DAB2IP** | DAB2 interacting protein | protein_coding | 7 | 6 | 8 | 7 | 0.873 |
| 153129 | NM_001258286,NM | **SLC38A9** | solute carrier family 38 r | protein_coding | 20 | 17 | 21 | 18 | 0.853 |
| 153163 | NR_051996 | **MGC32805** | uncharacterized LOC153 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 153201 | NM_181776,XM_00 | **SLC36A2** | solute carrier family 36 r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153218 | NM_001040129,NR | **SPINK13** | serine peptidase inhibito | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153222 | NM_001168393,NM | **CREBRF** | CREB3 regulatory factor | protein_coding | 1 | 1 | 2 | 2 | 0.984 |
| 153241 | NM_001166226,NM | **CEP120** | centrosomal protein 120 | protein_coding | 24 | 20 | 25 | 21 | 0.852 |
| 153328 | NM_001349335,NM | **SLC25A48** | solute carrier family 25 r | protein_coding | 0 | 0 | 1 | 1 | 0.859 |
| 153339 | NM_174909 | **TMEM167A** | transmembrane protein 1 | protein_coding | 74 | 65 | 75 | 66 | 0.877 |
| 153364 | NM_203406 | **MBLAC2** | metallo-beta-lactamase c | protein_coding | 8 | 8 | 9 | 9 | 1.067 |
| 153396 | NM_001289007,NM | **TMEM161B** | transmembrane protein 1 | protein_coding | 35 | 23 | 36 | 24 | 0.676 |
| 153443 | NM_152546,XM_01 | **SRFBP1** | serum response factor bi | protein_coding | 24 | 20 | 25 | 21 | 0.841 |
| 153469 | NR_038902 | **JAKMIP2-AS1** | JAKMIP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 153478 | NM_052909,XM_01 | **PLEKHG4B** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153527 | NM_144723 | **ZMAT2** | zinc finger matrin-type 2 | protein_coding | 162 | 168 | 163 | 169 | 1.033 |
| 153562 | NM_001038603,NM | **MARVELD2** | MARVEL domain contain | protein_coding | 1 | 0 | 2 | 1 | 0.887 |
| 153571 | NM_001294337,NM | **C5orf38** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153572 | NM_001134222,NM | **IRX2** | iroquois homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153579 | NM_001308245,NM | **BTNL9** | butyrophilin like 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153642 | NM_198150,XM_00 | **ARSK** | arylsulfatase family mem | protein_coding | 8 | 7 | 9 | 8 | 0.869 |
| 153643 | NM_152548,XM_00 | **FAM81B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153657 | NM_001317949,NM | **TTC23L** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153684 | NR_015447 | **LOC153684** | uncharacterized LOC153 | lncRNA | 1 | 1 | 2 | 2 | 0.973 |
| 153733 | NM_001040440,NM | **CCDC112** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153743 | NM_206858 | **PPP1R2B** | PPP1R2 family member | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 153745 | NM_130899 | **FAM71B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153768 | NM_138492,NM_18 | **PRELID2** | PRELI domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153769 | NM_152550,XM_00 | **SH3RF2** | SH3 domain containing r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 153770 | NM_001029869,XM | **PLAC8L1** | PLAC8 like 1 | protein_coding | 2 | 2 | 3 | 3 | 0.967 |
| 153830 | NM_001199380,NM | **RNF145** | ring finger protein 145 | protein_coding | 80 | 76 | 81 | 77 | 0.952 |
| 153842 | gene-SEM1P1 | **SEM1P1** | SEM1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 153893 | gene-LOC153893 | **LOC153893** | defective in cullin neddyl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 153910 | NR_027311,NR_02 | **LOC153910** | uncharacterized LOC153 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 153918 | NM_001013623 | **ZC2HC1B** | zinc finger C2HC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.338 |
| 153932 | gene-SRP72P2 | **SRP72P2** | signal recognition particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 154007 | NM_152551,XM_01 | **SNRNP48** | small nuclear ribonucleo | protein_coding | 15 | 12 | 16 | 13 | 0.840 |
| 154043 | NM_001368116,NM | **CNKSR3** | CNKSR family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154064 | NM_130900 | **RAET1L** | retinoic acid early transcr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154075 | NM_001017373,NM | **SAMD3** | sterile alpha motif domai | protein_coding | 99 | 96 | 100 | 97 | 0.969 |
| 154089 | NR_027030 | **LINC01312** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154091 | NM_145176,XM_00 | **SLC2A12** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154092 | NR_038216,NR_03 | **LINC01010** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.088 |
| 154141 | NM_001080480,NR | **MBOAT1** | membrane bound O-acy | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 154150 | NM_138574 | **HDGFL1** | HDGF like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154197 | NM_001271862,NM | **PNLDC1** | PARN like, ribonuclease | protein_coding | 1 | 0 | 2 | 1 | 0.825 |
| 154214 | NM_001286398,NM | **RNF217** | ring finger protein 217 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154215 | NM_001040214,NM | **NKAIN2** | sodium/potassium transp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154288 | NM_001017361 | **KHDC3L** | KH domain containing 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154313 | NM_001031743 | **CFAP206** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 0.859 |
| 154386 | NR_131168 | **LINC01600** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154442 | NR_037157 | **BVES-AS1** | BVES antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154449 | NR_002787 | **LOC154449** | uncharacterized LOC154 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154467 | NM_138493 | **CCDC167** | coiled-coil domain contai | protein_coding | 152 | 150 | 153 | 151 | 0.987 |
| 154661 | NM_001134405,NM | **RUNDC3B** | RUN domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154664 | NM_152701,XM_01 | **ABCA13** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154743 | NM_152556 | **BMT2** | base methyltransferase c | protein_coding | 5 | 5 | 6 | 6 | 0.942 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 154761 | NR_015421 | **LOC154761** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.052 |
| 154790 | NM_001080511,NM | **CLEC2L** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154791 | NM_197964,NR_07 | **FMC1** | formation of mitochondria | protein_coding | 26 | 19 | 27 | 20 | 0.734 |
| 154796 | NM_001113490,NM | **AMOT** | angiomotin | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 154807 | NM_001284342,NM | **VKORC1L1** | vitamin K epoxide reduct | protein_coding | 38 | 33 | 39 | 34 | 0.885 |
| 154810 | NM_001301007,NM | **AMOTL1** | angiomotin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154822 | NR_024394 | **LINC00689** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154860 | NR_036484 | **FEZF1-AS1** | FEZF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154865 | NM_001282855,NM | **IQUB** | IQ motif and ubiquitin do | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 154872 | NR_167671 | **C7orf77** | chromosome 7 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 154881 | NM_001167961,NM | **KCTD7** | potassium channel tetra | protein_coding | 7 | 8 | 8 | 9 | 1.085 |
| 154907 | NM_001024607 | **C7orf66** | chromosome 7 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 154937 | gene-LOC154937 | **LOC154937** | protein phosphatase 2 re | pseudogene | 0 | 0 | 1 | 1 | 0.866 |
| 155006 | NM_001085429,XM | **TMEM213** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 155019 | gene-ST13P7 | **ST13P7** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 155038 | NM_175571,XM_00 | **GIMAP8** | GTPase, IMAP family me | protein_coding | 16 | 18 | 17 | 19 | 1.109 |
| 155051 | NM_001308292,NM | **CRYGN** | crystallin gamma N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 155054 | NM_001001661 | **ZNF425** | zinc finger protein 425 | protein_coding | 1 | 1 | 2 | 2 | 1.277 |
| 155060 | NR_036573 | **LOC155060** | AI894139 pseudogene | transcribed_pseu | 7 | 8 | 8 | 9 | 1.053 |
| 155061 | NM_001163474,NM | **ZNF746** | zinc finger protein 746 | protein_coding | 15 | 16 | 16 | 17 | 1.027 |
| 155066 | NM_001100592,NM | **ATP6V0E2** | ATPase H+ transporting | protein_coding | 54 | 56 | 55 | 57 | 1.039 |
| 155100 | gene-CCT8L1P | **CCT8L1P** | chaperonin containing TC | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 155184 | NM_207420,XM_01 | **SLC2A7** | solute carrier family 2 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 155185 | NM_001284355,NM | **AMZ1** | archaelysin family metall | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 155368 | NM_152559,XM_01 | **METTL27** | methyltransferase like 27 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 155370 | NR_001588,NR_02 | **SBDSP1** | SBDS pseudogene 1 | transcribed_pseu | 91 | 90 | 92 | 91 | 0.994 |
| 155382 | NM_001077621,XM | **VPS37D** | VPS37D subunit of ESCI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 155400 | NR_033322,NR_10 | **NSUN5P1** | NSUN5 pseudogene 1 | transcribed_pseu | 27 | 27 | 28 | 28 | 0.982 |
| 155435 | NM_053043,XM_00 | **RBM33** | RNA binding motif protei | protein_coding | 19 | 16 | 20 | 17 | 0.860 |
| 155465 | NM_176813,XM_00 | **AGR3** | anterior gradient 3, prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157206 | gene-RPL21P11 | **RPL21P11** | ribosomal protein L21 ps | pseudogene | 1 | 1 | 2 | 2 | 0.937 |
| 157273 | NR_040039 | **LOC157273** | uncharacterized LOC157 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157285 | NM_001080826,NM | **PRAG1** | PEAK1 related, kinase-a | protein_coding | 1 | 1 | 2 | 2 | 1.155 |
| 157310 | NM_001363233,NM | **PEBP4** | phosphatidylethanolamir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157313 | NM_001317906,NM | **CDCA2** | cell division cycle associa | protein_coding | 29 | 27 | 30 | 28 | 0.932 |
| 157317 | gene-CYCSP55 | **CYCSP55** | CYCS pseudogene 55 | pseudogene | 3 | 4 | 4 | 5 | 1.048 |
| 157376 | NR_103547 | **FER1L6-AS2** | FER1L6 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157378 | NM_194291 | **TMEM65** | transmembrane protein 6 | protein_coding | 10 | 10 | 11 | 11 | 1.042 |
| 157381 | NR_027321 | **LINC00964** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157489 | NR_144550 | **SDAD1P1** | SDA1 domain containing | transcribed_pseu | 0 | 0 | 1 | 1 | 0.970 |
| 157506 | NM_172037 | **RDH10** | retinol dehydrogenase 10 | protein_coding | 8 | 6 | 9 | 7 | 0.833 |
| 157530 | gene-ST13P6 | **ST13P6** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 157556 | NR_027071 | **BAALC-AS2** | BAALC antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157567 | NM_001270377,NM | **ANKRD46** | ankyrin repeat domain 46 | protein_coding | 11 | 10 | 12 | 11 | 0.986 |
| 157570 | NM_001017420,XM | **ESCO2** | establishment of sister ch | protein_coding | 12 | 13 | 13 | 14 | 1.074 |
| 157574 | NM_001258211,NM | **FBXO16** | F-box protein 16 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157627 | NR_024281 | **MIR124-1HG** | MIR124-1 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157638 | NM_174911,NR_15 | **LRATD2** | LRAT domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157657 | NM_001363260,NM | **C8orf37** | chromosome 8 open rea | protein_coding | 3 | 3 | 4 | 4 | 1.088 |
| 157667 | gene-MYL12AP1 | **MYL12AP1** | myosin light chain 12A p | pseudogene | 0 | 0 | 1 | 1 | 0.980 |
| 157680 | NM_015243,NM_01 | **VPS13B** | vacuolar protein sorting 1 | protein_coding | 11 | 8 | 12 | 9 | 0.775 |
| 157693 | NR_103537 | **FAM87A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 157695 | NM_001256113,NM | **TDRP** | testis development relate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157697 | NM_001303100,NM | **ERICH1** | glutamate rich 1 | protein_coding | 41 | 38 | 42 | 39 | 0.932 |
| 157708 | gene-SEC11B | **SEC11B** | SEC11 homolog B, signa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 157713 | gene-LYPLA1P3 | **LYPLA1P3** | LYPLA1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.935 |
| 157724 | NM_138817,XM_01 | **SLC7A13** | solute carrier family 7 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157739 | NR_001578 | **TDH** | L-threonine dehydrogena | transcribed_pseu | 0 | 0 | 1 | 1 | 0.837 |
| 157753 | NM_153015,NR_13 | **TMEM74** | transmembrane protein 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157769 | NM_001317917,NM | **FAM91A1** | family with sequence sim | protein_coding | 64 | 56 | 65 | 57 | 0.870 |
| 157773 | NM_001007090 | **C8orf48** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157777 | NM_001136160,NM | **MCMDC2** | minichromosome maintei | protein_coding | 0 | 0 | 1 | 1 | 0.883 |
| 157807 | NM_173519,XM_01 | **CLVS1** | clavesin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157848 | NM_001364841,NM | **NKX6-3** | NK6 homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157855 | NM_001031836,NR | **KCNU1** | potassium calcium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157869 | NM_153225,XM_01 | **SBSPON** | somatomedin B and thro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157922 | NM_015447,XM_00 | **CAMSAP1** | calmodulin regulated spe | protein_coding | 9 | 8 | 10 | 9 | 0.888 |
| 157927 | NM_173520 | **C9orf62** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 157956 | gene-CDC20P1 | **CDC20P1** | cell division cycle 20 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 157983 | NR_160804 | **DOCK8-AS1** | DOCK8 antisense RNA 1 | lncRNA | 3 | 4 | 4 | 5 | 1.130 |
| 158035 | NR_026679 | **LINC00032** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158038 | NM_001258282,NM | **LINGO2** | leucine rich repeat and Ig | protein_coding | 1 | 1 | 2 | 2 | 0.993 |
| 158046 | NM_001161625,NM | **NXNL2** | nucleoredoxin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158055 | NM_152571 | **C9orf163** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.774 |
| 158056 | NM_206920 | **MAMDC4** | MAM domain containing | protein_coding | 1 | 1 | 2 | 2 | 0.999 |
| 158062 | NM_198946 | **LCN6** | lipocalin 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158067 | NM_001317958,NM | **AK8** | adenylate kinase 8 | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 158078 | gene-EEF1A1P5 | **EEF1A1P5** | eukaryotic translation elo | pseudogene | 855 | 892 | 856 | 893 | 1.043 |
| 158104 | gene-RPS10P3 | **RPS10P3** | ribosomal protein S10 ps | pseudogene | 8 | 10 | 9 | 11 | 1.135 |
| 158131 | NM_012364 | **OR1Q1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158135 | NM_001139442,NM | **TTLL11** | tubulin tyrosine ligase lik | protein_coding | 2 | 2 | 3 | 3 | 1.068 |
| 158158 | NM_152573,XM_00 | **RASEF** | RAS and EF-hand doma | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 158160 | NR_003086 | **HSD17B7P2** | hydroxysteroid 17-beta d | transcribed_pseu | 1 | 0 | 2 | 1 | 0.853 |
| 158172 | gene-SERPINH1P1 | **SERPINH1P1** | serpin family H member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 158219 | NM_001168339,NM | **TTC39B** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 0.841 |
| 158222 | gene-LDHAP4 | **LDHAP4** | lactate dehydrogenase A | pseudogene | 12 | 13 | 13 | 14 | 1.017 |
| 158228 | NR_027294 | **FAM201A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158234 | NM_001286950,NM | **TRMT10B** | tRNA methyltransferase | protein_coding | 6 | 6 | 7 | 7 | 1.025 |
| 158248 | NM_001317037,NM | **TTC16** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 158257 | NR_046163,NR_04 | **LINC02603** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158293 | NM_001322224,NM | **FAM120AOS** | family with sequence sim | protein_coding | 24 | 23 | 25 | 24 | 0.980 |
| 158297 | NM_001287049,NM | **SAXO1** | stabilizer of axonemal mi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158314 | NR_027341 | **LINC00475** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158326 | NM_001177704,NM | **FREM1** | FRAS1 related extracellu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158345 | gene-RPL4P5 | **RPL4P5** | ribosomal protein L4 pse | pseudogene | 1 | 1 | 2 | 2 | 0.980 |
| 158358 | NM_001017969,XM | **KIAA2026** | KIAA2026 | protein_coding | 8 | 7 | 9 | 8 | 0.795 |
| 158373 | gene-YBX1P10 | **YBX1P10** | Y-box binding protein 1 p | pseudogene | 1 | 1 | 2 | 2 | 1.283 |
| 158376 | NM_001348107 | **SPAAR** | small regulatory polypep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158381 | NR_003581,NR_00 | **ATP8B5P** | ATPase phospholipid tra | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 158383 | gene-YWHAZP6 | **YWHAZP6** | tyrosine 3-monooxygena | pseudogene | 1 | 1 | 2 | 2 | 1.134 |
| 158399 | NM_001007169,NM | **ZNF483** | zinc finger protein 483 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158401 | NM_001080551,NM | **SHOC1** | shortage in chiasmata 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158405 | NM_001287036,NM | **KIAA1958** | KIAA1958 | protein_coding | 3 | 4 | 4 | 5 | 1.211 |
| 158427 | NM_139246 | **TSTD2** | thiosulfate sulfurtransfer | protein_coding | 12 | 11 | 13 | 12 | 0.922 |
| 158431 | NM_001001662,NM | **ZNF782** | zinc finger protein 782 | protein_coding | 3 | 2 | 4 | 3 | 0.801 |
| 158434 | NR_132344 | **LOC158434** | uncharacterized LOC158 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158435 | NR_033838 | **LOC158435** | uncharacterized LOC158 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158452 | gene-ASS1P3 | **ASS1P3** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 158471 | NM_001308047,NM | **PRUNE2** | prune homolog 2 with BC | protein_coding | 7 | 6 | 8 | 7 | 0.786 |
| 158506 | NM_152577 | **CBLL2** | Cbl proto-oncogene like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158511 | NM_001102576,NM | **CSAG1** | chondrosarcoma associa | protein_coding | 1 | 1 | 2 | 2 | 1.266 |
| 158521 | NM_152578 | **FMR1NB** | FMR1 neighbor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158572 | NR_026742 | **USP27X-AS1** | USP27X antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 158584 | NM_001353840,NM | **FAAH2** | fatty acid amide hydrolas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158586 | NM_007157 | **ZXDB** | zinc finger X-linked dupli | protein_coding | 4 | 3 | 5 | 4 | 0.872 |
| 158674 | gene-RPSAP3 | **RPSAP3** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.958 |
| 158724 | NM_203408 | **FAM47A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158747 | NM_001177475,NM | **MOSPD2** | motile sperm domain cor | protein_coding | 13 | 14 | 14 | 15 | 1.067 |
| 158763 | NM_001282607,NM | **ARHGAP36** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158787 | NM_001031745,NM | **RIBC1** | RIB43A domain with coil | protein_coding | 1 | 1 | 2 | 2 | 1.046 |
| 158798 | NM_001008534,NM | **AKAP14** | A-kinase anchoring prote | protein_coding | 1 | 0 | 2 | 1 | 0.781 |
| 158800 | NM_139282,XM_01 | **RHOXF1** | Rhox homeobox family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158801 | NR_027131 | **NKAPP1** | NFKB activating protein p | transcribed_pseu | 2 | 2 | 3 | 3 | 0.947 |
| 158809 | NM_173523 | **MAGEB6** | MAGE family member B6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158830 | NM_001025265,NR | **CXorf65** | chromosome X open rea | protein_coding | 2 | 2 | 3 | 3 | 1.056 |
| 158833 | NM_001013579,XM | **AWAT1** | acyl-CoA wax alcohol acy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 158835 | NM_001002254,XM_ | **AWAT2** | acyl-CoA wax alcohol ac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158866 | NM_001146256,NM | **ZDHHC15** | zinc finger DHHC-type p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158880 | NM_201286,XM_01 | **USP51** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.149 |
| 158905 | gene-PHF10P1 | **PHF10P1** | PHD finger protein 10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 158931 | NM_001006938,NM | **TCEAL6** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 158948 | gene-LOC158948 | **LOC158948** | protein kinase C iota pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 158960 | NR_103768 | **CH17-340M24.3** | uncharacterized protein l | lncRNA | 8 | 10 | 9 | 11 | 1.254 |
| 158983 | NM_001002916 | **H2BW1** | H2B.W histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 159007 | gene-LOC159007 | **LOC159007** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 159013 | NM_001330455,NM | **CXorf38** | chromosome X open rea | protein_coding | 32 | 31 | 33 | 32 | 0.980 |
| 159090 | NM_001166599,NM | **FAM122B** | family with sequence sir | protein_coding | 130 | 105 | 131 | 106 | 0.806 |
| 159091 | NM_001170779,NM | **FAM122C** | family with sequence sir | protein_coding | 11 | 10 | 12 | 11 | 0.923 |
| 159119 | NM_001001877,NM | **HSFY2** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 159125 | NR_001574 | **RBMY2EP** | RNA binding motif protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 159162 | NR_002193 | **RBMY2FP** | RNA binding motif protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 159163 | NM_001303410,NM | **RBMY1F** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 159195 | NM_001320437,NM | **USP54** | ubiquitin specific peptida | protein_coding | 4 | 2 | 5 | 3 | 0.708 |
| 159296 | NM_145285,XM_01 | **NKX2-3** | NK2 homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 159371 | NM_001134658,NM | **SLC35G1** | solute carrier family 35 m | protein_coding | 5 | 5 | 6 | 6 | 0.985 |
| 159686 | NM_001008723 | **CFAP58** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 0.828 |
| 159770 | gene-CBX3P1 | **CBX3P1** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 159963 | NM_178498,XM_00 | **SLC5A12** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 159989 | NM_181645,XM_00 | **DEUP1** | deuterosome assembly p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160065 | NM_138294 | **PATE1** | prostate and testis expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160140 | NM_001330368,NM | **C11orf65** | chromosome 11 open re | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 160287 | NM_001144071,NM | **LDHAL6A** | lactate dehydrogenase A | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 160298 | NM_173525,XM_01 | **C11orf42** | chromosome 11 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160313 | NR_036685 | **KRT19P2** | keratin 19 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 160335 | NM_001320321,NM | **TMTC2** | transmembrane O-mann | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160364 | NM_001207010,NM | **CLEC12A** | C-type lectin domain fam | protein_coding | 1 | 1 | 2 | 2 | 0.977 |
| 160365 | NM_001253750,NM | **CLECL1** | C-type lectin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160410 | gene-PSMC6P2 | **PSMC6P2** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 160418 | NM_001366574,NM | **TMTC3** | transmembrane O-mann | protein_coding | 4 | 3 | 5 | 4 | 0.956 |
| 160419 | NM_001363616,NM | **C12orf50** | chromosome 12 open re | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 160428 | NM_001034173,NR | **ALDH1L2** | aldehyde dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160492 | NM_001145727,NM | **LMNTD1** | lamin tail domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160518 | NM_001308339,NM | **DENND5B** | DENN domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 160622 | NM_001271856,NM | **TAMALIN** | trafficking regulator and | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 160728 | NM_145913,XM_01 | **SLC5A8** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160760 | NM_139283,NR_13 | **PPTC7** | protein phosphatase targ | protein_coding | 44 | 38 | 45 | 39 | 0.876 |
| 160762 | NM_001286243,NM | **CCDC63** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160777 | NM_178499,XM_01 | **CCDC60** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 160824 | gene-SP3P | **SP3P** | Sp3 transcription factor p | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 160851 | NM_001204504,NM | **DGKH** | diacylglycerol kinase eta | protein_coding | 2 | 1 | 3 | 2 | 0.811 |
| 160857 | NM_001350617,NM | **CCDC122** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 0.820 |
| 160897 | NM_180989 | **GPR180** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 161003 | NM_001144033,NM | **STOML3** | stomatin like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161142 | NM_173526,XM_01 | **FAM71D** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161145 | NM_001348541,NM | **TMEM229B** | transmembrane protein 2 | protein_coding | 27 | 26 | 28 | 27 | 0.940 |
| 161159 | NR_073422 | **ACTN1-AS1** | ACTN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 161176 | NM_001363692,NM | **SYNE3** | spectrin repeat containin | protein_coding | 51 | 48 | 52 | 49 | 0.937 |
| 161198 | NM_175060 | **CLEC14A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161247 | NM_203402 | **FITM1** | fat storage inducing tran | protein_coding | 0 | 1 | 1 | 2 | 1.052 |
| 161253 | NM_173527,XM_00 | **REM2** | RRAD and GEM like GTI | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 161291 | NM_001017970 | **TMEM30B** | transmembrane protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161342 | NR_145423 | **LINC00519** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 161357 | NM_001113498,NM | **MDGA2** | MAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161394 | NM_001010860 | **SAMD15** | sterile alpha motif domai | protein_coding | 1 | 0 | 2 | 1 | 0.851 |
| 161406 | gene-RPL7AP10 | **RPL7AP10** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 161424 | NM_001286367,NM | **NOP9** | NOP9 nucleolar protein | protein_coding | 39 | 35 | 40 | 36 | 0.902 |
| 161436 | NM_183387,XM_00 | **EML5** | EMAP like 5 | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 161497 | NM_153700 | **STRC** | stereocilin | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 161502 | NM_001353365,NM | **CFAP161** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161514 | NM_001286434,NM | **TBC1D21** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161582 | NM_001033559,NM | **DNAAF4** | dynein axonemal assem | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 161635 | NR_027320 | **CSNK1A1P1** | casein kinase 1 alpha 1 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 161725 | NM_001329907,NM | **OTUD7A** | OTU deubiquitinase 7A | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 161742 | NM_152594,XM_00 | **SPRED1** | sprouty related EVH1 do | protein_coding | 6 | 4 | 7 | 5 | 0.660 |
| 161753 | NM_175881,XM_00 | **ODF3L1** | outer dense fiber of sper | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161779 | NM_152595 | **PGBD4** | piggyBac transposable e | protein_coding | 10 | 9 | 11 | 10 | 0.947 |
| 161823 | NM_001012969,NM | **ADAL** | adenosine deaminase lik | protein_coding | 53 | 45 | 54 | 46 | 0.847 |
| 161829 | NM_001286441,NM | **EXD1** | exonuclease 3'-5' domair | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 161835 | NM_001324338,NM | **FSIP1** | fibrous sheath interacting | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 161882 | NM_153813,XM_01 | **ZFPM1** | zinc finger protein, FOG | protein_coding | 2 | 2 | 3 | 3 | 0.963 |
| 161931 | NM_001145400,NM | **ADAD2** | adenosine deaminase dc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162073 | NM_001034841,NR | **ITPRIPL2** | ITPRIP like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162083 | NM_001145545 | **C16orf82** | chromosome 16 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162137 | XR_001752133 | **LOC162137** | uncharacterized LOC162 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 162239 | NM_001318469,NM | **ZFP1** | ZFP1 zinc finger protein | protein_coding | 13 | 11 | 14 | 12 | 0.872 |
| 162282 | NM_001365758,NM | **ANKFN1** | ankyrin repeat and fibror | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162333 | NM_001100875,NM | **MARCHF10** | membrane associated rir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162387 | NM_152599 | **MFSD6L** | major facilitator superfan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162394 | NM_001330183,NM | **SLFN5** | schlafen family member | protein_coding | 12 | 9 | 13 | 10 | 0.793 |
| 162417 | NM_153006,XM_01 | **NAGS** | N-acetylglutamate synth | protein_coding | 1 | 1 | 2 | 2 | 0.995 |
| 162427 | NM_178126,NR_02 | **RETREG3** | reticulophagy regulator f | protein_coding | 34 | 32 | 35 | 33 | 0.954 |
| 162461 | NM_001168215,NM | **TMEM92** | transmembrane protein 9 | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 162466 | NM_001143804,NM | **PHOSPHO1** | phosphoethanolamine/pl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162494 | NM_001330181,NM | **RHBDL3** | rhomboid like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162514 | NM_001258205,NM | **TRPV3** | transient receptor potent | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162515 | NM_001370549,NM | **SLC16A11** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162517 | NM_153230 | **FBXO39** | F-box protein 39 | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 162540 | NM_175882 | **SPPL2C** | signal peptide peptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162605 | NM_181535 | **KRT28** | keratin 28 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162632 | NR_003190 | **USP32P1** | ubiquitin specific peptida | transcribed_pseu | 12 | 12 | 13 | 13 | 0.971 |
| 162655 | NM_145287,NR_03 | **ZNF519** | zinc finger protein 519 | protein_coding | 3 | 4 | 4 | 5 | 1.065 |
| 162681 | NM_001288980,NM | **C18orf54** | chromosome 18 open re | protein_coding | 11 | 11 | 12 | 12 | 1.032 |
| 162699 | NM_145653 | **ELOA3** | elongin A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162962 | NM_001102657,XM_ | **ZNF836** | zinc finger protein 836 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 162963 | NM_001161425,NM | **ZNF610** | zinc finger protein 610 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162966 | NM_001321866,NM | **ZNF600** | zinc finger protein 600 | protein_coding | 6 | 5 | 7 | 6 | 0.764 |
| 162967 | NM_001351773,NM | **ZNF320** | zinc finger protein 320 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 162968 | NM_001207009,NM | **ZNF497** | zinc finger protein 497 | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 162972 | NM_001277090,NM | **ZNF550** | zinc finger protein 550 | protein_coding | 15 | 15 | 16 | 16 | 0.966 |
| 162979 | NM_145288 | **ZNF296** | zinc finger protein 296 | protein_coding | 14 | 16 | 15 | 17 | 1.108 |
| 162989 | NM_001270614,NM | **DEDD2** | death effector domain co | protein_coding | 44 | 49 | 45 | 50 | 1.097 |
| 162993 | NM_001077624,NM | **ZNF846** | zinc finger protein 846 | protein_coding | 3 | 3 | 4 | 4 | 0.952 |
| 162998 | NM_175883 | **OR7D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 0.878 |
| 163033 | NM_152600,XM_01 | **ZNF579** | zinc finger protein 579 | protein_coding | 6 | 6 | 7 | 7 | 1.092 |
| 163049 | NM_153358,XM_01 | **ZNF791** | zinc finger protein 791 | protein_coding | 13 | 12 | 14 | 13 | 0.904 |
| 163050 | NM_144976 | **ZNF564** | zinc finger protein 564 | protein_coding | 8 | 7 | 9 | 8 | 0.880 |
| 163051 | NM_152601 | **ZNF709** | zinc finger protein 709 | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 163059 | NM_001080411,NM | **ZNF433** | zinc finger protein 433 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163071 | NM_001331097,NM | **ZNF114** | zinc finger protein 114 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163081 | NM_001300979,NM | **ZNF567** | zinc finger protein 567 | protein_coding | 0 | 0 | 1 | 1 | 0.894 |
| 163087 | NM_001345947,NM | **ZNF383** | zinc finger protein 383 | protein_coding | 4 | 3 | 5 | 4 | 0.930 |
| 163088 | gene-TAF9P3 | **TAF9P3** | TATA-box binding protein | pseudogene | 0 | 0 | 1 | 1 | 0.909 |
| 163115 | NM_152605 | **ZNF781** | zinc finger protein 781 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163126 | NM_153232 | **EID2** | EP300 interacting inhibit | protein_coding | 27 | 27 | 28 | 28 | 1.004 |
| 163131 | NM_001005851,XM_ | **ZNF780B** | zinc finger protein 780B | protein_coding | 10 | 9 | 11 | 10 | 0.877 |
| 163154 | NM_001134316 | **PRR22** | proline rich 22 | protein_coding | 6 | 5 | 7 | 6 | 0.957 |
| 163175 | NM_139284,XM_01 | **LGI4** | leucine rich repeat LGI fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163183 | NM_001039876,NM | **SYNE4** | spectrin repeat containin | protein_coding | 1 | 1 | 2 | 2 | 1.251 |
| 163223 | NM_001001411 | **ZNF676** | zinc finger protein 676 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163227 | NM_001351669,NM | **ZNF100** | zinc finger protein 100 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163255 | NM_001172225,NM | **ZNF540** | zinc finger protein 540 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163259 | NM_001256404,NM | **DENND2C** | DENN domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.905 |

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|---|---|---|---|---|---|---|---|---|---|
| 163351 | NM_001320257,NM | **GBP6** | guanylate binding protei | protein_coding | 0 | 0 | 1 | 1 | 0.917 |
| 163404 | NM_001010861,NM | **PLPPR5** | phospholipid phosphata | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163479 | NM_001144937 | **FNDC7** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163486 | NM_001195215,NM | **DENND1B** | DENN domain containing | protein_coding | 14 | 13 | 15 | 14 | 0.915 |
| 163589 | NM_001199085,NM | **TDRD5** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163590 | NM_001199260,NM | **TOR1AIP2** | torsin 1A interacting prot | protein_coding | 23 | 20 | 24 | 21 | 0.898 |
| 163688 | NM_001330313,NM | **CALML6** | calmodulin like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.088 |
| 163702 | NM_170743,NM_17 | **IFNLR1** | interferon lambda recept | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 163720 | NR_002788 | **CYP4Z2P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 163732 | NM_133467 | **CITED4** | Cbp/p300 interacting tra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163742 | NR_002314 | **SLC25A3P1** | solute carrier family 25 m | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 163747 | NM_001110533,NM | **LEXM** | lymphocyte expansion m | protein_coding | 8 | 9 | 9 | 10 | 1.118 |
| 163778 | NM_173080,XM_01 | **SPRR4** | small proline rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163782 | NM_001320269,NM | **KANK4** | KN motif and ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 163786 | NM_001304829,NM | **SASS6** | SAS-6 centriolar assemb | protein_coding | 33 | 28 | 34 | 29 | 0.852 |
| 163859 | NM_152608 | **SDE2** | SDE2 telomere maintena | protein_coding | 34 | 31 | 35 | 32 | 0.918 |
| 163882 | NM_001139459,NM | **CNST** | consortin, connexin sortii | protein_coding | 23 | 19 | 24 | 20 | 0.835 |
| 163933 | NM_207334 | **FAM43B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164045 | NM_001017975,NR | **HFM1** | helicase for meiosis 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164091 | NM_178422,XM_00 | **PAQR7** | progestin and adipoQ re | protein_coding | 0 | 0 | 1 | 1 | 0.911 |
| 164118 | NM_001105669,XM | **TTC24** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164127 | NM_152610 | **CCDC185** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164153 | NM_203412 | **UBL4B** | ubiquitin like 4B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164237 | NM_172005 | **WFDC13** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164284 | NM_001304787,NM | **APCDD1L** | APC down-regulated 1 lil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164312 | NM_152611,XM_01 | **LRRN4** | leucine rich repeat neurc | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 164380 | NR_001279 | **CST13P** | cystatin 13, pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 164395 | NM_001008409,NM | **TTLL9** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164592 | NM_001331066,NM | **CCDC116** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 164633 | NM_182527,XM_00 | **CABP7** | calcium binding protein 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164656 | NM_001289000,NM | **TMPRSS6** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 164668 | NM_001166002,NM | **APOBEC3H** | apolipoprotein B mRNA e | protein_coding | 69 | 71 | 70 | 72 | 1.037 |
| 164684 | NM_152613,XR_24 | **WBP2NL** | WBP2 N-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.180 |
| 164714 | NM_001350317,XM | **TTLL8** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164781 | NM_001330004,NM | **DAW1** | dynein assembly factor v | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164832 | NM_001371783,NM | **LONRF2** | LON peptidase N-termina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 164837 | gene-CYCSP7 | **CYCSP7** | CYCS pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 165055 | NM_001303105,NM | **CCDC138** | coiled-coil domain contai | protein_coding | 20 | 14 | 21 | 15 | 0.735 |
| 165082 | NM_001145168,NM | **ADGRF3** | adhesion G protein-coup | protein_coding | 1 | 1 | 2 | 2 | 1.075 |
| 165100 | NM_152614 | **TEX44** | testis expressed 44 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165140 | NM_148962 | **OXER1** | oxoeicosanoid receptor 1 | protein_coding | 0 | 0 | 1 | 1 | 1.171 |
| 165186 | NM_001321538,NM | **TOGARAM2** | TOG array regulator of a | protein_coding | 21 | 28 | 22 | 29 | 1.273 |
| 165215 | NM_177454 | **FAM171B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165257 | NM_182528 | **C1QL2** | complement C1q like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165324 | NM_181713,XM_00 | **UBXN2A** | UBX domain protein 2A | protein_coding | 12 | 9 | 13 | 10 | 0.815 |
| 165530 | NM_001258027,NM | **CLEC4F** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165545 | NM_133637,XM_01 | **DQX1** | DEAQ-box RNA dependc | protein_coding | 0 | 0 | 1 | 1 | 0.822 |
| 165631 | NM_001113523,NM | **PARP15** | poly(ADP-ribose) polyme | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 165679 | NM_001040100,NM | **SPTSSB** | serine palmitoyltransfera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165721 | NM_153330,XM_00 | **DNAJB8** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 165829 | NM_001168271,NM | **GPR156** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 165904 | NM_001198621,NM | **XIRP1** | xin actin binding repeat c | protein_coding | 1 | 1 | 2 | 2 | 1.068 |
| 165918 | NM_152617 | **RNF168** | ring finger protein 168 | protein_coding | 20 | 19 | 21 | 20 | 0.947 |
| 166012 | NM_152889 | **CHST13** | carbohydrate sulfotransf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166336 | NM_001370528,NM | **PRICKLE2** | prickle planar cell polarit | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 166348 | NM_001370224,NM | **KBTBD12** | kelch repeat and BTB do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166378 | NM_001317799,NM | **SPATA5** | spermatogenesis associa | protein_coding | 18 | 16 | 19 | 17 | 0.895 |
| 166379 | NM_001178007,NM | **BBS12** | Bardet-Biedl syndrome 1 | protein_coding | 3 | 2 | 4 | 3 | 0.825 |
| 166614 | NM_001040260,NM | **DCLK2** | doublecortin like kinase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166647 | NM_145290,XM_00 | **ADGRA3** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166655 | NM_001258025,NM | **TRIM60** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166752 | NM_001168235 | **FREM3** | FRAS1 related extracellu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166785 | NM_001375644,NM | **MMAA** | metabolism of cobalamin | protein_coding | 1 | 1 | 2 | 2 | 1.025 |
| 166793 | NM_001330625,NM | **ZBTB49** | zinc finger and BTB dom | protein_coding | 5 | 5 | 6 | 6 | 1.037 |
| 166815 | NM_001382380,NM | **TIGD2** | tigger transposable elem | protein_coding | 5 | 4 | 6 | 5 | 0.847 |
| 166824 | NM_001270391,NM | **RASSF6** | Ras association domain f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166863 | NM_001277171,NM | **RBM46** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166929 | NM_001136257,NM | **SGMS2** | sphingomyelin synthase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 166968 | NM_001297598,NM | **MIER3** | MIER family member 3 | protein_coding | 11 | 10 | 12 | 11 | 0.940 |
| 166979 | NM_001145734,NM | **CDC20B** | cell division cycle 20B | protein_coding | 1 | 1 | 2 | 2 | 0.943 |
| 167127 | NM_001168316,NM | **UGT3A2** | UDP glycosyltransferase | protein_coding | 0 | 0 | 1 | 1 | 1.072 |
| 167153 | NM_001114393,NM | **TENT2** | terminal nucleotidyltrans | protein_coding | 80 | 70 | 81 | 71 | 0.877 |
| 167227 | NM_001242377,NM | **DCP2** | decapping mRNA 2 | protein_coding | 42 | 37 | 43 | 38 | 0.882 |
| 167359 | NM_153361,NR_07 | **NIM1K** | NIM1 serine/threonine pr | protein_coding | 1 | 1 | 2 | 2 | 1.009 |
| 167410 | NM_153234 | **LIX1** | limb and CNS expressed | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167465 | NM_152625 | **ZNF366** | zinc finger protein 366 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167555 | NM_205548,XM_00 | **FAM151B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167681 | NM_001170423,NM | **PRSS35** | serine protease 35 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167691 | NM_001122769,NM | **LCA5** | lebercilin LCA5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167826 | NM_175747 | **OLIG3** | oligodendrocyte transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 167838 | NM_153235,XM_00 | **TXLNB** | taxilin beta | protein_coding | 0 | 0 | 1 | 1 | 0.905 |
| 168002 | NM_001286350,NM | **DACT2** | dishevelled binding anta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168090 | NM_144980,XM_00 | **C6orf118** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168374 | NM_001287532,NM | **ZNF92** | zinc finger protein 92 | protein_coding | 37 | 34 | 38 | 35 | 0.917 |
| 168391 | NM_145292,NR_03 | **GALNTL5** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168400 | NM_182699 | **DDX53** | DEAD-box helicase 53 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168417 | NM_153363,XM_01 | **ZNF679** | zinc finger protein 679 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168433 | NM_139175 | **RNF133** | ring finger protein 133 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168448 | NM_152627 | **CDC14C** | cell division cycle 14C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168451 | NM_001130475,NM | **THAP5** | THAP domain containing | protein_coding | 28 | 21 | 29 | 22 | 0.749 |
| 168455 | NM_175884 | **CCDC71L** | coiled-coil domain contai | protein_coding | 5 | 4 | 6 | 5 | 0.878 |
| 168474 | gene-SEPHS1P1 | **SEPHS1P1** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 168507 | NM_138295,XM_01 | **PKD1L1** | polycystin 1 like 1, transi | protein_coding | 1 | 0 | 2 | 1 | 0.962 |
| 168537 | NM_153236 | **GIMAP7** | GTPase, IMAP family me | protein_coding | 59 | 65 | 60 | 66 | 1.097 |
| 168544 | NM_001329856,NM | **ZNF467** | zinc finger protein 467 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168620 | NM_177455 | **BHLHA15** | basic helix-loop-helix fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168667 | NM_001365308,NM | **BMPER** | BMP binding endothelial | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 168741 | NR_002790 | **PER3P1** | PER3 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 168850 | NM_176814,XM_00 | **ZNF800** | zinc finger protein 800 | protein_coding | 17 | 18 | 18 | 19 | 1.031 |
| 168975 | NM_173538,XM_01 | **CNBD1** | cyclic nucleotide binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169026 | NM_001172811,NM | **SLC30A8** | solute carrier family 30 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169044 | NM_152888,XM_01 | **COL22A1** | collagen type XXII alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169166 | NM_001363720,NM | **SNX31** | sorting nexin 31 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169200 | NM_001008495,NM | **TMEM64** | transmembrane protein 6 | protein_coding | 10 | 8 | 11 | 9 | 0.827 |
| 169270 | NM_001042415,NM | **ZNF596** | zinc finger protein 596 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169355 | NM_194294 | **IDO2** | indoleamine 2,3-dioxyge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169436 | NM_153710,NR_10 | **STKLD1** | serine/threonine kinase l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169522 | NM_133497 | **KCNV2** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169611 | NM_001282715,NM | **OLFML2A** | olfactomedin like 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169693 | NM_153237 | **TMEM252** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169714 | NM_181701 | **QSOX2** | quiescin sulfhydryl oxida | protein_coding | 16 | 14 | 17 | 15 | 0.881 |
| 169792 | NM_001042413,NM | **GLIS3** | GLIS family zinc finger 3 | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 169834 | NM_001101338 | **ZNF883** | zinc finger protein 883 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169841 | NM_001301275,NM | **ZNF169** | zinc finger protein 169 | protein_coding | 2 | 2 | 3 | 3 | 0.959 |
| 169966 | NM_001170574,NM | **TENT5D** | terminal nucleotidyltrans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 169981 | NM_001010862,NR | **SPIN3** | spindlin family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170062 | NM_152631 | **FAM47B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170067 | NM_001136233 | **SUPT20HL2** | SUPT20H like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170082 | NM_001297563,NM | **TCEANC** | transcription elongation f | protein_coding | 1 | 1 | 2 | 2 | 0.855 |
| 170261 | NM_001312891,NM | **ZCCHC12** | zinc finger CCHC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170302 | NM_139058 | **ARX** | aristaless related homeo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170370 | NM_001164484 | **FAM170B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170371 | NM_001010863,NM | **TMEM273** | transmembrane protein 2 | protein_coding | 16 | 11 | 17 | 12 | 0.722 |
| 170384 | NM_001284194,NM | **FUT11** | fucosyltransferase 11 | protein_coding | 19 | 18 | 20 | 19 | 0.956 |
| 170392 | NM_152635,NR_13 | **OIT3** | oncoprotein induced tran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170393 | NR_149317 | **LINC02870** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.269 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 170394 | NM_001098637,NM | **PWWP2B** | PWWP domain containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170425 | NR_038220 | **LINC00858** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 170463 | NM_001009998,NM | **SSBP4** | single stranded DNA bin | protein_coding | 139 | 144 | 140 | 145 | 1.041 |
| 170482 | NM_001371390,NM | **CLEC4C** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170485 | gene-ARF4P2 | **ARF4P2** | ADP ribosylation factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.161 |
| 170487 | NM_001024675 | **ACTL10** | actin like 10 | protein_coding | 1 | 1 | 2 | 2 | 0.847 |
| 170503 | gene-CDC42P1 | **CDC42P1** | cell division cycle 42 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170504 | gene-COX6CP2 | **COX6CP2** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170506 | NM_001114397,NM | **DHX36** | DEAH-box helicase 36 | protein_coding | 73 | 48 | 74 | 49 | 0.668 |
| 170510 | gene-EIF4EBP2P1 | **EIF4EBP2P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170511 | gene-ENSAP1 | **ENSAP1** | endosulfine alpha pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170513 | gene-FAT1P1 | **FAT1P1** | FAT atypical cadherin 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170514 | gene-FTLP1 | **FTLP1** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170516 | gene-GAPDHP2 | **GAPDHP2** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 170522 | gene-GLRXP1 | **GLRXP1** | glutaredoxin pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170524 | gene-HNRNPA1P3 | **HNRNPA1P3** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.036 |
| 170526 | gene-HNRNPA3P2 | **HNRNPA3P2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170527 | gene-KRT18P3 | **KRT18P3** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170529 | gene-RPSAP1 | **RPSAP1** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170533 | gene-PA2G4P2 | **PA2G4P2** | proliferation-associated 2 | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 170535 | gene-PGAM3P | **PGAM3P** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170536 | gene-PPIAP21 | **PPIAP21** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 170537 | gene-PPIAP2 | **PPIAP2** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 170539 | gene-PPIAP3 | **PPIAP3** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.916 |
| 170541 | gene-PSMD10P1 | **PSMD10P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170543 | gene-RNF11P2 | **RNF11P2** | ring finger protein 11 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170547 | gene-AIMP1P1 | **AIMP1P1** | aminoacyl tRNA synthet | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170548 | gene-SF3A3P1 | **SF3A3P1** | splicing factor 3a, subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170552 | gene-SRMP1 | **SRMP1** | SRM pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170554 | gene-DYNLT3P1 | **DYNLT3P1** | dynein light chain Tctex- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170555 | gene-TPM3P2 | **TPM3P2** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 170556 | gene-UBE2V1P1 | **UBE2V1P1** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 170559 | gene-XPOTP1 | **XPOTP1** | exportin for tRNA pseud | pseudogene | 0 | 0 | 1 | 1 | 0.970 |
| 170572 | NM_130770 | **HTR3C** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170575 | NM_130759 | **GIMAP1** | GTPase, IMAP family me | protein_coding | 10 | 12 | 11 | 13 | 1.204 |
| 170589 | NM_130769,XM_01 | **GPHA2** | glycoprotein hormone su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170591 | NM_130772,XM_01 | **S100Z** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170622 | NM_001287392,NM | **COMMD6** | COMM domain containin | protein_coding | 49 | 52 | 50 | 53 | 1.051 |
| 170626 | NM_130776,NM_13 | **XAGE3** | X antigen family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170627 | NM_130775,XM_01 | **XAGE5** | X antigen family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170679 | NM_014068 | **PSORS1C1** | psoriasis susceptibility 1 | protein_coding | 0 | 0 | 1 | 1 | 1.107 |
| 170680 | NM_014069 | **PSORS1C2** | psoriasis susceptibility 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170685 | NM_001304963,NM | **NUDT10** | nudix hydrolase 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170688 | NR_104005 | **NUDT4P2** | nudix hydrolase 4 pseud | transcribed_pseu | 8 | 8 | 9 | 9 | 0.910 |
| 170689 | NM_139055,XM_00 | **ADAMTS15** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170690 | NM_139056,NR_13 | **ADAMTS16** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170691 | NM_139057,XM_00 | **ADAMTS17** | ADAM metallopeptidase | protein_coding | 16 | 14 | 17 | 15 | 0.894 |
| 170692 | NM_001326358,NM | **ADAMTS18** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170712 | NM_130902,XM_00 | **COX7B2** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170825 | NM_133267 | **GSX2** | GS homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170850 | NM_133329,NM_17 | **KCNG3** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170949 | NR_036686 | **DEFT1P** | defensin theta 1, pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 170954 | NM_001134870,NM | **PPP1R18** | protein phosphatase 1 re | protein_coding | 246 | 256 | 247 | 257 | 1.040 |
| 170958 | NM_001348156,NM | **ZNF525** | zinc finger protein 525 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 170959 | NM_001319124,NM | **ZNF431** | zinc finger protein 431 | protein_coding | 4 | 3 | 5 | 4 | 0.778 |
| 170960 | NM_133474 | **ZNF721** | zinc finger protein 721 | protein_coding | 9 | 8 | 10 | 9 | 0.816 |
| 170961 | NM_133475,XM_01 | **ANKRD24** | ankyrin repeat domain 24 | protein_coding | 0 | 0 | 1 | 1 | 0.920 |
| 171017 | NM_001039920,NM | **ZNF384** | zinc finger protein 384 | protein_coding | 26 | 28 | 27 | 29 | 1.042 |
| 171019 | NM_133638,XM_01 | **ADAMTS19** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171022 | NR_026690 | **ABHD11-AS1** | ABHD11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 171023 | NM_001164603,NM | **ASXL1** | ASXL transcriptional regu | protein_coding | 49 | 49 | 50 | 50 | 1.003 |
| 171024 | NM_001128933,NM | **SYNPO2** | synaptopodin 2 | protein_coding | 1 | 1 | 2 | 2 | 0.925 |
| 171169 | NM_133498 | **SPACA4** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171176 | gene-NICN2P | **NICN2P** | nicolin 2, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171177 | NM_133639 | **RHOV** | ras homolog family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171220 | NR_033796 | **DSTNP2** | DSTN pseudogene 2 | transcribed_pseu | 2 | 2 | 3 | 3 | 0.876 |
| 171221 | gene-DNAJB1P1 | **DNAJB1P1** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171222 | NM_001355247 | **UBE2L5** | ubiquitin conjugating en | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 171389 | NM_001276700,NM | **NLRP6** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171391 | NR_126342,NR_12 | **LOC171391** | uncharacterized LOC171 | lncRNA | 9 | 9 | 10 | 10 | 1.018 |
| 171392 | NM_138330 | **ZNF675** | zinc finger protein 675 | protein_coding | 8 | 6 | 9 | 7 | 0.764 |
| 171417 | gene-LOC171417 | **LOC171417** | thioredoxin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171418 | gene-GLRXP2 | **GLRXP2** | glutaredoxin pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171421 | gene-HSPE1P16 | **HSPE1P16** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 171423 | NR_002305 | **PDIA3P1** | protein disulfide isomera | transcribed_pseu | 4 | 4 | 5 | 5 | 0.949 |
| 171424 | gene-SPA17P1 | **SPA17P1** | sperm autoantigenic prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171425 | NM_206808,NR_10 | **CLYBL** | citramalyl-CoA lyase | protein_coding | 3 | 3 | 4 | 4 | 1.079 |
| 171427 | gene-CYP2F2P | **CYP2F2P** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171472 | gene-SRSF10P2 | **SRSF10P2** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171482 | NM_001171186,NM | **FAM9A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171483 | NM_205849,XM_02 | **FAM9B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171484 | NM_174901,XM_00 | **FAM9C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.070 |
| 171523 | NR_144551 | **CYP2T1P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 171546 | NM_138288 | **SPTSSA** | serine palmitoyltransfera | protein_coding | 47 | 44 | 48 | 45 | 0.931 |
| 171558 | NM_001243168,NM | **PTCRA** | pre T cell antigen recept | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 171559 | gene-HMGA1P2 | **HMGA1P2** | high mobility group AT-h | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 171560 | gene-TXNP6 | **TXNP6** | thioredoxin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 171568 | NM_001018050,NM | **POLR3H** | RNA polymerase III subu | protein_coding | 69 | 69 | 70 | 70 | 0.999 |
| 171586 | NM_001308256,NM | **ABHD3** | abhydrolase domain con | protein_coding | 38 | 32 | 39 | 33 | 0.831 |
| 191585 | NR_148920 | **PLAC4** | placenta enriched 4 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 192111 | NM_001170543,NM | **PGAM5** | PGAM family member 5, | protein_coding | 80 | 81 | 81 | 82 | 1.011 |
| 192134 | NM_138706 | **B3GNT6** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 1.118 |
| 192146 | gene-DDX50P1 | **DDX50P1** | DEAD-box helicase 50 p | pseudogene | 0 | 0 | 1 | 1 | 0.844 |
| 192217 | NR_132962 | **OXCT2P1** | 3-oxoacid CoA-transfera | transcribed_pseu | 0 | 0 | 1 | 1 | 0.927 |
| 192286 | NM_138820 | **HIGD2A** | HIG1 hypoxia inducible d | protein_coding | 246 | 231 | 247 | 232 | 0.939 |
| 192666 | NM_019016,XM_00 | **KRT24** | keratin 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 192668 | NM_001037160 | **CYS1** | cystin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 192669 | NM_024852,NM_17 | **AGO3** | argonaute RISC catalytic | protein_coding | 7 | 6 | 8 | 7 | 0.945 |
| 192670 | NM_017629,NR_14 | **AGO4** | argonaute RISC compon | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 192683 | NM_001178111,NM | **SCAMP5** | secretory carrier membra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 193629 | NR_027072 | **LINC00189** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 195814 | NM_001318049,NM | **SDR16C5** | short chain dehydrogena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 195827 | NM_153698,XM_00 | **PRXL2C** | peroxiredoxin like 2C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 195828 | NM_153695,XM_01 | **ZNF367** | zinc finger protein 367 | protein_coding | 23 | 20 | 24 | 21 | 0.894 |
| 195977 | NM_001278688,NM | **ANTXRL** | ANTXR like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196047 | NR_002791,NR_14 | **EMX2OS** | EMX2 opposite strand/ar | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 196051 | NM_001030059,NM | **PLPP4** | phospholipid phosphata | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196074 | NM_001113528,NM | **METTL15** | methyltransferase like 15 | protein_coding | 13 | 11 | 14 | 12 | 0.865 |
| 196188 | gene-RPS2P38 | **RPS2P38** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 196264 | NM_001286152,NM | **MPZL3** | myelin protein zero like 3 | protein_coding | 31 | 25 | 32 | 26 | 0.796 |
| 196294 | NM_001304274,NM | **IMMP1L** | inner mitochondrial mem | protein_coding | 32 | 32 | 33 | 33 | 1.016 |
| 196335 | NM_001005181 | **OR56B4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196374 | NM_001300814,NM | **KRT78** | keratin 78 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196383 | NM_145058,NR_13 | **RILPL2** | Rab interacting lysosoma | protein_coding | 27 | 24 | 28 | 25 | 0.890 |
| 196385 | NM_001372106,NM | **DNAH10** | dynein axonemal heavy c | protein_coding | 2 | 2 | 3 | 3 | 0.837 |
| 196394 | NM_001113402,NM | **AMN1** | antagonist of mitotic exit | protein_coding | 0 | 1 | 1 | 2 | 1.276 |
| 196403 | NM_001286245,NM | **DTX3** | deltex E3 ubiquitin ligase | protein_coding | 6 | 7 | 7 | 8 | 1.094 |
| 196410 | NM_152637 | **METTL7B** | methyltransferase like 7E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196415 | NM_001101339,XM | **C12orf77** | chromosome 12 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196441 | NM_144982 | **ZFC3H1** | zinc finger C3H1-type co | protein_coding | 28 | 22 | 29 | 23 | 0.792 |
| 196446 | NM_182530,XM_01 | **MYRFL** | myelin regulatory factor l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196463 | NM_001159727,NM | **PLBD2** | phospholipase B domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196469 | gene-LOC196469 | **LOC196469** | DNA dC->dU-editing enz | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 196472 | NM_153364 | **FAM71C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196475 | NR_024037,NR_15 | **RMST** | rhabdomyosarcoma 2 as | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 196477 | NM_152638,NR_13 | **CCER1** | coiled-coil glutamate rich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 196483 | NM_001289029,NM | **EEF2KMT** | eukaryotic elongation fac | protein_coding | 24 | 24 | 25 | 25 | 1.019 |
| 196500 | NM_001244014,NM | **PIANP** | PILR alpha associated ne | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196513 | NM_001319292,NM | **DCP1B** | decapping mRNA 1B | protein_coding | 10 | 9 | 11 | 10 | 0.956 |
| 196527 | NM_001025356,NM | **ANO6** | anoctamin 6 | protein_coding | 15 | 13 | 16 | 14 | 0.860 |
| 196528 | NM_001347839,NM | **ARID2** | AT-rich interaction domai | protein_coding | 15 | 13 | 16 | 14 | 0.865 |
| 196541 | NM_001010977,XM | **METTL21C** | methyltransferase like 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196549 | NR_027062 | **EEF1DP3** | eukaryotic translation elo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 196740 | NM_001031746,NM | **VSTM4** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 196743 | NM_152911,NM_20 | **PAOX** | polyamine oxidase | protein_coding | 2 | 3 | 3 | 4 | 1.265 |
| 196792 | NM_001204364,NM | **FAM24B** | family with sequence sim | protein_coding | 7 | 6 | 8 | 7 | 0.983 |
| 196872 | NR_024396 | **LINC00638** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.852 |
| 196883 | NM_001198568,NM | **ADCY4** | adenylate cyclase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.059 |
| 196913 | NR_131171 | **LINC01599** | long intergenic non-prote | lncRNA | 3 | 4 | 4 | 5 | 1.105 |
| 196951 | NM_001330293,NM | **FAM227B** | family with sequence sim | protein_coding | 2 | 1 | 3 | 2 | 0.765 |
| 196968 | NR_003260 | **DNM1P46** | dynamin 1 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 196993 | NR_168259,NR_168 | **CT62** | cancer/testis associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 196996 | NM_001012642,XM | **GRAMD2A** | GRAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.957 |
| 197003 | NR_026897 | **MGC15885** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 197021 | NM_001278562,NM | **LCTL** | lactase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 197131 | NM_174916 | **UBR1** | ubiquitin protein ligase E | protein_coding | 41 | 34 | 42 | 35 | 0.842 |
| 197135 | NM_001145112,NM | **PATL2** | PAT1 homolog 2 | protein_coding | 3 | 4 | 4 | 5 | 1.046 |
| 197187 | NR_024399,NR_024 | **SNAI3-AS1** | SNAI3 antisense RNA 1 | lncRNA | 2 | 3 | 3 | 4 | 1.073 |
| 197196 | NR_038859 | **LINC00311** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 197257 | NM_153486,NM_19 | **LDHD** | lactate dehydrogenase D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 197258 | NM_145059,XM_00 | **FCSK** | fucose kinase | protein_coding | 3 | 3 | 4 | 4 | 1.030 |
| 197259 | NM_001142497,NM | **MLKL** | mixed lineage kinase dor | protein_coding | 15 | 12 | 16 | 13 | 0.860 |
| 197320 | NM_001201407,NM | **ZNF778** | zinc finger protein 778 | protein_coding | 2 | 2 | 3 | 3 | 1.003 |
| 197322 | NM_001127214,NM | **ACSF3** | acyl-CoA synthetase fam | protein_coding | 17 | 20 | 18 | 21 | 1.185 |
| 197331 | gene-TUBB8P7 | **TUBB8P7** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 197335 | NM_145294,XM_01 | **WDR90** | WD repeat domain 90 | protein_coding | 5 | 5 | 6 | 6 | 1.049 |
| 197342 | NM_001257370,XM | **EME2** | essential meiotic structur | protein_coding | 5 | 4 | 6 | 5 | 0.817 |
| 197350 | NR_132322 | **CASP16P** | caspase 16, pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 197358 | NM_178844,NR_07 | **NLRC3** | NLR family CARD domai | protein_coding | 42 | 34 | 43 | 35 | 0.809 |
| 197370 | NM_145080,XM_00 | **NSMCE1** | NSE1 homolog, SMC5-S | protein_coding | 59 | 66 | 60 | 67 | 1.122 |
| 197407 | NM_001214906,NM | **ZNF48** | zinc finger protein 48 | protein_coding | 20 | 23 | 21 | 24 | 1.144 |
| 198437 | NM_001007125,NM | **LKAAEAR1** | LKAAEAR motif containir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199221 | NM_001170538,NM | **DZIP1L** | DAZ interacting zinc fing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199223 | NM_001105513,NM | **TTC21A** | tetratricopeptide repeat d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199675 | NM_174918 | **MCEMP1** | mast cell expressed mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199692 | NM_001290083,NM | **ZNF627** | zinc finger protein 627 | protein_coding | 4 | 4 | 5 | 5 | 1.018 |
| 199699 | NM_152654 | **DAND5** | DAN domain BMP antag | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199704 | NM_001288800,NM | **ZNF585A** | zinc finger protein 585A | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 199713 | NM_001127255,NM | **NLRP7** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199720 | NM_152657,XM_00 | **GGN** | gametogenetin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199731 | NM_145296,XM_00 | **CADM4** | cell adhesion molecule 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199745 | NM_001331102,NM | **THAP8** | THAP domain containing | protein_coding | 3 | 4 | 4 | 5 | 1.407 |
| 199746 | NM_001040425,NM | **U2AF1L4** | U2 small nuclear RNA au | protein_coding | 4 | 9 | 5 | 10 | 1.915 |
| 199777 | NM_001076675,NM | **ZNF626** | zinc finger protein 626 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199786 | NM_001098524,NM | **NIBAN3** | niban apoptosis regulato | protein_coding | 0 | 0 | 1 | 1 | 1.168 |
| 199800 | NM_001101340 | **ADM5** | adrenomedullin 5 (putati | protein_coding | 5 | 6 | 6 | 7 | 1.098 |
| 199827 | gene-RNASEH1P3 | **RNASEH1P3** | ribonuclease H1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 199834 | NM_178356 | **LCE4A** | late cornified envelope 4. | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199857 | NM_001305242,NM | **ALG14** | ALG14 UDP-N-acetylglu | protein_coding | 4 | 3 | 5 | 4 | 0.758 |
| 199870 | NM_001143912,NM | **FAM76A** | family with sequence sim | protein_coding | 9 | 10 | 10 | 11 | 1.060 |
| 199882 | XR_001737704,XR_ | **LOC199882** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 199899 | NR_038252 | **LINC00466** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 199900 | gene-MRPS21P1 | **MRPS21P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 199920 | NM_001004303,XM_ | **FYB2** | FYN binding protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199953 | NM_001010866,NM | **TMEM201** | transmembrane protein 2 | protein_coding | 44 | 48 | 45 | 49 | 1.106 |
| 199964 | NM_182532,XM_00 | **TMEM61** | transmembrane protein 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199974 | NM_178134,XM_02 | **CYP4Z1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 199990 | NM_001146310,NM | **FAAP20** | FA core complex associa | protein_coding | 35 | 36 | 36 | 37 | 1.019 |
| 200008 | NM_001353655,NM | **CDCP2** | CUB domain containing p | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 200010 | NM_001011547,NM | **SLC5A9** | solute carrier family 5 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200014 | NM_001330585,NM | **CC2D1B** | coiled-coil and C2 domai | protein_coding | 15 | 16 | 16 | 17 | 1.035 |
| 200025 | gene-PFN1P3 | **PFN1P3** | profilin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 200030 | NM_001101663,NM | **NBPF11** | NBPF member 11 | protein_coding | 6 | 5 | 7 | 6 | 0.876 |
| 200035 | NM_001012758,XM_ | **NUDT17** | nudix hydrolase 17 | protein_coding | 2 | 2 | 3 | 3 | 0.942 |
| 200081 | NM_001376857,NM | **TXLNA** | taxilin alpha | protein_coding | 119 | 118 | 120 | 119 | 0.985 |
| 200132 | NM_152665,XM_01 | **TCTEX1D1** | Tctex1 domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200149 | gene-TUBB8P6 | **TUBB8P6** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 200150 | NM_001195811,NM | **PLD5** | phospholipase D family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200159 | NM_001012970,NM | **C1orf100** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200162 | NM_206996,XM_00 | **SPAG17** | sperm associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200172 | NM_001168247,NM | **SLFNL1** | schlafen like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200185 | NM_173852 | **KRTCAP2** | keratinocyte associated p | protein_coding | 179 | 197 | 180 | 198 | 1.104 |
| 200186 | NM_181715,XM_00 | **CRTC2** | CREB regulated transcri | protein_coding | 56 | 59 | 57 | 60 | 1.044 |
| 200197 | NR_027136 | **TMEM51-AS1** | TMEM51 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 200205 | NM_001010867,NM | **IBA57** | iron-sulfur cluster assem | protein_coding | 2 | 2 | 3 | 3 | 1.114 |
| 200232 | NM_001012971,XR | **FAM209A** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 1.090 |
| 200261 | NR_034149 | **LINC00656** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 200298 | NR_103718 | **LINC00528** | long intergenic non-prote | lncRNA | 11 | 11 | 12 | 12 | 1.037 |
| 200312 | NM_001017981 | **RNF215** | ring finger protein 215 | protein_coding | 2 | 2 | 3 | 3 | 1.075 |
| 200315 | NM_001270406,NM | **APOBEC3A** | apolipoprotein B mRNA e | protein_coding | 3 | 3 | 4 | 4 | 1.040 |
| 200316 | NM_001006666,NM | **APOBEC3F** | apolipoprotein B mRNA e | protein_coding | 59 | 56 | 60 | 57 | 0.946 |
| 200350 | NM_012184 | **FOXD4L1** | forkhead box D4 like 1 | protein_coding | 3 | 4 | 4 | 5 | 1.180 |
| 200373 | NM_001271049,NR | **CFAP221** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200403 | NM_001345864,NM | **VWA3B** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200407 | NM_153836,XM_01 | **CREG2** | cellular repressor of E1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200420 | NR_003683 | **ALMS1P1** | ALMS1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.004 |
| 200424 | NM_001287491,NM | **TET3** | tet methylcytosine dioxyg | protein_coding | 15 | 12 | 16 | 13 | 0.822 |
| 200504 | NM_182536 | **GKN2** | gastrokine 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200523 | NM_152670,XM_00 | **TEX37** | testis expressed 37 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200539 | NM_144994 | **ANKRD23** | ankyrin repeat domain 2 | protein_coding | 3 | 2 | 4 | 3 | 0.780 |
| 200558 | NM_173545 | **APLF** | aprataxin and PNKP like | protein_coding | 2 | 2 | 3 | 3 | 0.893 |
| 200575 | gene-CRYGEP | **CRYGEP** | crystallin gamma E, pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 200576 | NM_001178000,NM | **PIKFYVE** | phosphoinositide kinase, | protein_coding | 22 | 17 | 23 | 18 | 0.760 |
| 200634 | NM_001168364,NM | **KRTCAP3** | keratinocyte associated p | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 200726 | NM_001102659 | **FAM237A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200728 | NM_198276,XM_01 | **TMEM17** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200734 | NM_001128210,NM | **SPRED2** | sprouty related EVH1 do | protein_coding | 22 | 18 | 23 | 19 | 0.811 |
| 200765 | NM_145702 | **TIGD1** | tigger transposable elem | protein_coding | 5 | 5 | 6 | 6 | 1.034 |
| 200772 | NR_033841 | **UICLM** | up-regulated in colorecta | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 200810 | NM_001015050,NM | **ALG1L** | ALG1 chitobiosyldiphosp | protein_coding | 0 | 0 | 1 | 1 | 1.211 |
| 200844 | NM_001351530,NM | **CFAP20DC** | CFAP20 domain containi | protein_coding | 2 | 2 | 3 | 3 | 0.985 |
| 200845 | NM_001128214,NM | **KCTD6** | potassium channel tetra | protein_coding | 10 | 10 | 11 | 11 | 0.998 |
| 200879 | NM_139248,XM_00 | **LIPH** | lipase H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200894 | NM_001174150,NM | **ARL13B** | ADP ribosylation factor li | protein_coding | 12 | 11 | 13 | 12 | 0.933 |
| 200895 | NM_001195643,NM | **DHFR2** | dihydrofolate reductase 2 | protein_coding | 11 | 11 | 12 | 12 | 0.993 |
| 200909 | NM_001145143,NM | **HTR3D** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200916 | NM_001099645,NM | **RPL22L1** | ribosomal protein L22 like | protein_coding | 32 | 30 | 33 | 31 | 0.938 |
| 200931 | NM_152672 | **SLC51A** | solute carrier family 51 su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 200933 | NM_001105573 | **FBXO45** | F-box protein 45 | protein_coding | 40 | 35 | 41 | 36 | 0.878 |
| 200942 | NM_173546,XM_00 | **KLHDC8B** | kelch domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.103 |
| 200958 | NM_001282506 | **MUC20** | mucin 20, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.264 |
| 200959 | NM_001105580 | **GABRR3** | gamma-aminobutyric aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201134 | NM_001037325,NM | **CEP112** | centrosomal protein 112 | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 201140 | NM_001105571,NM | **DHRS7C** | dehydrogenase/reductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201158 | NM_001135036,NM | **TVP23C** | trans-golgi network vesic | protein_coding | 7 | 6 | 8 | 7 | 0.982 |
| 201161 | NM_181716 | **CENPV** | centromere protein V | protein_coding | 28 | 32 | 29 | 33 | 1.115 |
| 201163 | NM_001353229,NM | **FLCN** | folliculin | protein_coding | 11 | 10 | 12 | 11 | 0.947 |
| 201164 | NM_178836,XM_01 | **PLD6** | phospholipase D family m | protein_coding | 9 | 8 | 10 | 9 | 0.888 |
| 201176 | NM_001282290,NM | **ARHGAP27** | Rho GTPase activating p | protein_coding | 27 | 26 | 28 | 27 | 0.974 |
| 201181 | NM_001378270 | **ZNF385C** | zinc finger protein 385C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201191 | NM_001257359,NM | **SAMD14** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 201229 | NM_001076680,XM_ | **LYRM9** | LYR motif containing 9 | protein_coding | 0 | 0 | 1 | 1 | 1.011 |

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|---|---|---|---|---|---|---|---|---|---|
| 201232 | NM_201566 | **SLC16A13** | solute carrier family 16 m | protein_coding | 8 | 9 | 9 | 10 | 1.037 |
| 201243 | NM_175734,XM_00 | **SPEM2** | SPEM family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201254 | NM_001271006,NM | **CENPX** | centromere protein X | protein_coding | 151 | 156 | 152 | 157 | 1.034 |
| 201255 | NM_144999,XR_93 | **LRRC45** | leucine rich repeat conta | protein_coding | 23 | 25 | 24 | 26 | 1.069 |
| 201259 | gene-RPL32P31 | **RPL32P31** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 201266 | NM_001159770,NM | **SLC39A11** | solute carrier family 39 m | protein_coding | 20 | 20 | 21 | 21 | 1.020 |
| 201283 | NR_026903 | **AMZ2P1** | archaelysin family metall | transcribed_pseu | 4 | 6 | 5 | 7 | 1.270 |
| 201288 | gene-NOS2P2 | **NOS2P2** | nitric oxide synthase 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 201292 | NM_001256124,NM | **TRIM65** | tripartite motif containing | protein_coding | 26 | 25 | 27 | 26 | 0.984 |
| 201294 | NM_199242 | **UNC13D** | unc-13 homolog D | protein_coding | 16 | 15 | 17 | 16 | 0.915 |
| 201299 | NM_001034836,NM | **RDM1** | RAD52 motif containing 1 | protein_coding | 13 | 11 | 14 | 12 | 0.815 |
| 201305 | NM_001320449,NM | **SPNS3** | sphingolipid transporter 3 | protein_coding | 7 | 7 | 8 | 8 | 0.947 |
| 201456 | NM_001142958,NM | **FBXO15** | F-box protein 15 | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 201475 | NM_001025300,XM | **RAB12** | RAB12, member RAS on | protein_coding | 7 | 7 | 8 | 8 | 1.071 |
| 201477 | NR_038895 | **DLGAP1-AS3** | DLGAP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 201501 | NM_001039360,NM | **ZBTB7C** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201514 | NM_001318002,NM | **ZNF584** | zinc finger protein 584 | protein_coding | 6 | 7 | 7 | 8 | 1.117 |
| 201516 | NM_152677,XM_01 | **ZSCAN4** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201562 | NM_001329783,NM | **HACD2** | 3-hydroxyacyl-CoA dehy | protein_coding | 49 | 41 | 50 | 42 | 0.842 |
| 201595 | NM_178862,XM_01 | **STT3B** | STT3 oligosaccharyltran | protein_coding | 136 | 119 | 137 | 120 | 0.871 |
| 201617 | NR_038221 | **LINC00870** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 201625 | NM_001366028,NM | **DNAH12** | dynein axonemal heavy c | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 201626 | NM_001322176,NM | **PDE12** | phosphodiesterase 12 | protein_coding | 20 | 17 | 21 | 18 | 0.867 |
| 201627 | NM_152678,XM_00 | **DENND6A** | DENN domain containing | protein_coding | 4 | 4 | 5 | 5 | 1.091 |
| 201633 | NM_173799,XM_02 | **TIGIT** | T cell immunoreceptor w | protein_coding | 28 | 30 | 29 | 31 | 1.068 |
| 201651 | NR_026915 | **AADACP1** | arylacetamide deacetyla | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 201725 | NM_001008393,NR | **C4orf46** | chromosome 4 open rea | protein_coding | 33 | 31 | 34 | 32 | 0.917 |
| 201780 | NM_152679 | **SLC10A4** | solute carrier family 10 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201798 | NM_145720,XM_00 | **TIGD4** | tigger transposable elem | protein_coding | 2 | 2 | 3 | 3 | 0.825 |
| 201799 | NM_152680,XM_01 | **TMEM154** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 201853 | NR_126435 | **LINC00504** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.943 |
| 201895 | NM_001317896,NM | **SMIM14** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.091 |
| 201931 | NM_001100389,XM | **TMEM192** | transmembrane protein 1 | protein_coding | 13 | 11 | 14 | 12 | 0.897 |
| 201965 | NM_001307922,NM | **RWDD4** | RWD domain containing | protein_coding | 47 | 45 | 48 | 46 | 0.968 |
| 201973 | NM_001300767,NM | **PRIMPOL** | primase and DNA directe | protein_coding | 11 | 10 | 12 | 11 | 0.928 |
| 202018 | NM_153365,XM_00 | **TAPT1** | transmembrane anterior | protein_coding | 19 | 20 | 20 | 21 | 1.044 |
| 202020 | NR_027696,NR_02 | **TAPT1-AS1** | TAPT1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.097 |
| 202051 | NM_194296,XM_00 | **SPATA24** | spermatogenesis associa | protein_coding | 10 | 10 | 11 | 11 | 1.021 |
| 202052 | NM_152686 | **DNAJC18** | DnaJ heat shock protein | protein_coding | 9 | 8 | 10 | 9 | 0.895 |
| 202122 | gene-RPL27P10 | **RPL27P10** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 202134 | NM_001265615 | **FAM153B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 202151 | NM_001161429,NM | **RANBP3L** | RAN binding protein 3 lik | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 202181 | NR_026921 | **LOC202181** | SUMO interacting motifs | transcribed_pseu | 0 | 0 | 1 | 1 | 0.931 |
| 202227 | gene-PPIAP78 | **PPIAP78** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 202243 | NM_001297696,NM | **CCDC125** | coiled-coil domain contai | protein_coding | 14 | 12 | 15 | 13 | 0.915 |
| 202299 | NR_026936 | **LINC01554** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 202309 | NM_001304428,NM | **GAPT** | GRB2 binding adaptor p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 202319 | gene-LOC202319 | **LOC202319** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 202333 | NM_153610,XM_01 | **CMYA5** | cardiomyopathy associat | protein_coding | 0 | 0 | 1 | 1 | 0.905 |
| 202374 | NM_001112724,NM | **STK32A** | serine/threonine kinase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 202459 | NR_028496 | **OSTCP1** | oligosaccharyltransferas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 202500 | NM_182539,XM_00 | **TCTE1** | t-complex-associated-tes | protein_coding | 0 | 1 | 1 | 2 | 1.922 |
| 202559 | NM_001350622,NM | **KHDRBS2** | KH RNA binding domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 202658 | NM_001199119 | **TRIM39-RPP21** | TRIM39-RPP21 readthro | protein_coding | 1 | 1 | 2 | 2 | 0.953 |
| 202781 | NR_028090 | **PAXIP1-AS1** | PAXIP1 antisense RNA 1 | lncRNA | 8 | 8 | 9 | 9 | 1.005 |
| 202789 | gene-RPL17P27 | **RPL17P27** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 202865 | NM_145304 | **C7orf33** | chromosome 7 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 202915 | NM_001097620,XM | **TMEM184A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203054 | NM_174922,XM_00 | **ADCK5** | aarF domain containing k | protein_coding | 2 | 2 | 3 | 3 | 1.048 |
| 203062 | NM_001291931,NM | **TSNARE1** | t-SNARE domain contain | protein_coding | 1 | 1 | 2 | 2 | 1.025 |
| 203068 | NM_001293212,NM | **TUBB** | tubulin beta class I | protein_coding | 2,521 | 2,606 | 2,522 | 2,607 | 1.033 |
| 203069 | NM_001136108,NM | **R3HCC1** | R3H domain and coiled-c | protein_coding | 39 | 39 | 40 | 40 | 1.011 |
| 203074 | NM_001197020,NM | **PRSS55** | serine protease 55 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203076 | NM_001040032,XM | **C8orf74** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203100 | NM_153692,XM_01 | **HTRA4** | HtrA serine peptidase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203102 | NM_001313994,NM | **ADAM32** | ADAM metallopeptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203111 | NM_001170806,NM | **ERICH5** | glutamate rich 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203190 | NM_139278 | **LGI3** | leucine rich repeat LGI fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203197 | NM_001330760,NM | **TMEM268** | transmembrane protein 2 | protein_coding | 13 | 14 | 14 | 15 | 1.077 |
| 203228 | NM_001256054,NM | **C9orf72** | C9orf72-SMCR8 comple | protein_coding | 4 | 3 | 5 | 4 | 0.958 |
| 203238 | NM_001348002,NM | **CCDC171** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 0.994 |
| 203245 | NM_197956,XR_24 | **NAIF1** | nuclear apoptosis induci | protein_coding | 10 | 11 | 11 | 12 | 1.132 |
| 203259 | NM_001184940,NM | **FAM219A** | family with sequence sim | protein_coding | 6 | 7 | 7 | 8 | 1.145 |
| 203260 | NM_001195200,NM | **CCDC107** | coiled-coil domain contai | protein_coding | 9 | 9 | 10 | 10 | 1.018 |
| 203274 | NR_146625,NR_14 | **LINC00537** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 1.100 |
| 203286 | NM_173551,XM_00 | **ANKS6** | ankyrin repeat and steril | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203328 | NM_001287005,NM | **SUSD3** | sushi domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 203413 | NM_001017978 | **CT83** | cancer/testis antigen 83 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203414 | NR_126059 | **LINC01560** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.179 |
| 203427 | NM_145305,XM_01 | **SLC25A43** | solute carrier family 25 m | protein_coding | 12 | 9 | 13 | 10 | 0.727 |
| 203429 | NR_026595 | **FAM226A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.112 |
| 203430 | NM_152694 | **RTL3** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 0.828 |
| 203447 | NM_198465,XM_00 | **NRK** | Nik related kinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203477 | gene-HMGA1P1 | **HMGA1P1** | high mobility group AT-h | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 203510 | gene-HMGB3P30 | **HMGB3P30** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 203522 | NM_001351601,NM | **INTS6L** | integrator complex subu | protein_coding | 16 | 14 | 17 | 15 | 0.871 |
| 203523 | NM_152695,XM_01 | **ZNF449** | zinc finger protein 449 | protein_coding | 2 | 3 | 3 | 4 | 1.182 |
| 203547 | NM_001017980,NM | **VMA21** | vacuolar ATPase assemt | protein_coding | 27 | 23 | 28 | 24 | 0.855 |
| 203562 | NM_182541 | **TMEM31** | transmembrane protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203569 | NM_207339,XM_01 | **PAGE2** | PAGE family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203611 | NM_001001722 | **CDY2B** | chromodomain Y-linked 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203859 | NM_001142649,NM | **ANO5** | anoctamin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 203930 | gene-LOC203930 | **LOC203930** | sorting nexin 7 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 204010 | NR_026825 | **RPSAP52** | ribosomal protein SA pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 204219 | NM_001290341,NM | **CERS3** | ceramide synthase 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 204474 | NM_174924,XM_01 | **PDILT** | protein disulfide isomera | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 204800 | gene-LOC204800 | **LOC204800** | actin related protein 2/3 c | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 204801 | NM_001297743,NM | **NLRP11** | NLR family pyrin domain | protein_coding | 1 | 0 | 2 | 1 | 0.818 |
| 204851 | NM_001369806,NM | **HIPK1** | homeodomain interacting | protein_coding | 43 | 35 | 44 | 36 | 0.807 |
| 204962 | NM_001130058,NM | **SLC44A5** | solute carrier family 44 m | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 205147 | NM_001105193,NM | **AMER3** | APC membrane recruitm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 205251 | NM_001355251,XM | **MTLN** | mitoregulin | protein_coding | 7 | 8 | 8 | 9 | 1.145 |
| 205272 | gene-CNN2P8 | **CNN2P8** | calponin 2 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 205327 | NM_153689 | **C2orf69** | chromosome 2 open rea | protein_coding | 39 | 34 | 40 | 35 | 0.858 |
| 205428 | NM_001134470,NM | **DIPK2A** | divergent protein kinase | protein_coding | 20 | 18 | 21 | 19 | 0.885 |
| 205564 | NM_001308045,NM | **SENP5** | SUMO specific peptidase | protein_coding | 32 | 27 | 33 | 28 | 0.849 |
| 205717 | NM_001009899,NR | **USF3** | upstream transcription fa | protein_coding | 7 | 6 | 8 | 7 | 0.833 |
| 205860 | NM_001303419,NM | **TRIML2** | tripartite motif family like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 206338 | NM_173800 | **LVRN** | laeverin | protein_coding | 0 | 0 | 1 | 1 | 1.057 |
| 206358 | NM_001308150,NM | **SLC36A1** | solute carrier family 36 m | protein_coding | 7 | 7 | 8 | 8 | 0.972 |
| 206412 | NM_001010868 | **C6orf163** | chromosome 6 open rea | protein_coding | 1 | 0 | 2 | 1 | 0.724 |
| 206426 | NR_027712 | **PIP5K1P1** | phosphatidylinositol-4-ph | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 207032 | gene-RPL36AP52 | **RPL36AP52** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 207063 | NM_145177,NM_14 | **DHRSX** | dehydrogenase/reductas | protein_coding | 5 | 5 | 6 | 6 | 0.957 |
| 207107 | NR_027082 | **SFTA1P** | surfactant associated 1, | transcribed_pseu | 0 | 0 | 1 | 1 | 0.878 |
| 207147 | NR_036483 | **TRY2P** | trypsinogen-like pseudog | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 219285 | NM_001303496,NM | **SAMD9L** | sterile alpha motif domai | protein_coding | 70 | 53 | 71 | 54 | 0.756 |
| 219287 | NM_152704,NM_19 | **AMER2** | APC membrane recruitm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219293 | NM_001039211 | **ATAD3C** | ATPase family AAA doma | protein_coding | 3 | 3 | 4 | 4 | 1.119 |
| 219333 | NM_182488,XM_00 | **USP12** | ubiquitin specific peptida | protein_coding | 33 | 30 | 34 | 31 | 0.916 |
| 219347 | NR_027428,NR_02 | **TMEM254-AS1** | TMEM254 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 219348 | NM_001012973,NM | **PLAC9** | placenta associated 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219402 | NM_001166261,NM | **MTIF3** | mitochondrial translation | protein_coding | 20 | 22 | 21 | 23 | 1.067 |
| 219409 | NM_145657 | **GSX1** | GS homeobox 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219417 | NM_001005204 | **OR8U1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219428 | NM_001004701 | **OR4C16** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 219429 | NM_001004700 | **OR4C11** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219431 | NM_001004059 | **OR4S2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219432 | NM_001004704 | **OR4C6** | olfactory receptor family | protein_coding | 7 | 5 | 8 | 6 | 0.770 |
| 219436 | NM_001004735 | **OR5D14** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219437 | NM_001004738 | **OR5L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219438 | NM_001001952 | **OR5D18** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219445 | NR_027688 | **OR7E5P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 219447 | NM_001001921 | **OR5AS1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219453 | NM_001004058 | **OR8K5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219464 | NM_001004746 | **OR5T2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219469 | NM_001005199 | **OR8H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219473 | NM_001005202 | **OR8K3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219477 | NM_001005205 | **OR8J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219479 | NM_001004744 | **OR5R1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219482 | NM_001004742 | **OR5M3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219484 | NM_001005282 | **OR5M8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219487 | NM_001005245 | **OR5M11** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219493 | NM_001004730 | **OR5AR1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219525 | NR_036445 | **OR5AK4P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 219527 | NM_001005210 | **LRRC55** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219537 | NM_001105565,XM | **SMTNL1** | smoothelin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 219539 | NM_001363487,NM | **YPEL4** | yippee like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219541 | NM_001317078,NM | **MED19** | mediator complex subun | protein_coding | 25 | 25 | 26 | 26 | 0.980 |
| 219557 | NM_152706,XM_01 | **TEX47** | testis expressed 47 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219578 | NM_181646 | **ZNF804B** | zinc finger protein 804B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219595 | NM_153696,XM_01 | **FOLH1B** | folate hydrolase 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219621 | NM_001366905,NM | **CABCOCO1** | ciliary associated calciun | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219623 | NM_178505,NR_13 | **TMEM26** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219654 | NM_153367,XM_01 | **ZCCHC24** | zinc finger CCHC-type co | protein_coding | 1 | 1 | 2 | 2 | 0.894 |
| 219670 | NM_001270383,NM | **ENKUR** | enkurin, TRPC channel i | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 219681 | NM_001282745,NM | **ARMC3** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219699 | NM_001244889,NM | **UNC5B** | unc-5 netrin receptor B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219731 | NR_038222 | **PROSER2-AS1** | PROSER2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 219736 | NM_001130159,NM | **STOX1** | storkhead box 1 | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 219738 | NM_145306,XM_005 | **FAM241B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219743 | NM_001040273,NM | **TYSND1** | trypsin domain containin | protein_coding | 3 | 3 | 4 | 4 | 0.878 |
| 219749 | NM_001329647,NM | **ZNF25** | zinc finger protein 25 | protein_coding | 2 | 2 | 3 | 3 | 1.271 |
| 219752 | gene-TACC1P1 | **TACC1P1** | transforming acidic coile | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 219770 | NM_153368 | **GJD4** | gap junction protein delt | protein_coding | 0 | 0 | 1 | 1 | 1.061 |
| 219771 | NM_001282852,NM | **CCNY** | cyclin Y | protein_coding | 8 | 8 | 9 | 9 | 0.986 |
| 219790 | NM_001282941,NM | **RTKN2** | rhotekin 2 | protein_coding | 7 | 6 | 8 | 7 | 0.799 |
| 219793 | NM_001318241,NM | **TBATA** | thymus, brain and testes | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219833 | NM_001256088,NM | **C11orf45** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219844 | NM_001134793,NM | **HYLS1** | HYLS1 centriolar and cili | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219854 | NM_001080546,NM | **TMEM218** | transmembrane protein 2 | protein_coding | 8 | 8 | 9 | 9 | 1.016 |
| 219855 | NM_001145290,NM | **SLC37A2** | solute carrier family 37 m | protein_coding | 1 | 0 | 2 | 1 | 0.853 |
| 219858 | NM_001005195 | **OR8B12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219865 | NM_001005198 | **OR8G5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219869 | NM_001004464 | **OR10G8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219870 | NM_001001953 | **OR10G9** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219873 | NM_001004474 | **OR10S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219874 | NM_001005187,XM | **OR6T1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219875 | NM_001001965 | **OR4D5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219899 | NM_001130047,NM | **TBCEL** | tubulin folding cofactor E | protein_coding | 10 | 10 | 11 | 11 | 1.011 |
| 219902 | NM_001198670,NM | **TLCD5** | TLC domain containing 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219927 | NM_181514,NM_18 | **MRPL21** | mitochondrial ribosomal | protein_coding | 183 | 186 | 184 | 187 | 1.018 |
| 219931 | NM_139075 | **TPCN2** | two pore segment chann | protein_coding | 6 | 8 | 7 | 9 | 1.152 |
| 219938 | NM_001291992,NM | **SPATA19** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219952 | NM_001005186 | **OR6Q1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219954 | NM_001005211 | **OR9I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219956 | NM_001005212 | **OR9Q1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219957 | NM_001005283 | **OR9Q2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219958 | NM_001004459 | **OR1S2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219959 | NM_001004458 | **OR1S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219960 | NM_001004471 | **OR10Q1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219965 | NM_001005489 | **OR5B17** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219968 | NM_001005218 | **OR5B21** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 0.914 |
| 219970 | NM_145016,XM_01 | **GLYATL2** | glycine-N-acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219972 | NM_001039396 | **MPEG1** | macrophage expressed 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219981 | NM_001001954 | **OR5A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219982 | NM_001004728 | **OR5A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219983 | NM_001004708 | **OR4D6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219986 | NM_001004706 | **OR4D11** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219988 | NM_152716 | **PATL1** | PAT1 homolog 1, proces | protein_coding | 46 | 41 | 47 | 42 | 0.875 |
| 219990 | NM_173801 | **OOSP2** | oocyte secreted protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 219995 | NM_001098835,NM | **MS4A15** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220001 | NM_152718,XM_00 | **VWCE** | von Willebrand factor C a | protein_coding | 1 | 1 | 2 | 2 | 0.913 |
| 220002 | NM_001161452,NM | **CYB561A3** | cytochrome b561 family | protein_coding | 46 | 51 | 47 | 52 | 1.111 |
| 220004 | NM_001170753,NM | **PPP1R32** | protein phosphatase 1 re | protein_coding | 0 | 1 | 1 | 2 | 1.348 |
| 220032 | NM_182833,XM_01 | **GDPD4** | glycerophosphodiester p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220042 | NM_001363481,NM | **DDIAS** | DNA damage induced ap | protein_coding | 30 | 25 | 31 | 26 | 0.834 |
| 220047 | NM_001286159,NM | **CCDC83** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220064 | NM_153451,XM_00 | **LTO1** | LTO1 maturation factor c | protein_coding | 19 | 16 | 20 | 17 | 0.850 |
| 220070 | NR_073536 | **SHANK2-AS3** | SHANK2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 220074 | NM_001145307,NM | **LRTOMT** | leucine rich transmembra | protein_coding | 9 | 10 | 10 | 11 | 1.028 |
| 220081 | NM_182542,XM_01 | **ERICH6B** | glutamate rich 6B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220082 | NM_001286341,NM | **CBY2** | chibby family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220107 | NM_001306135,NM | **DLEU7** | deleted in lymphocytic le | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220108 | NM_001242312,NM | **FAM124A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220112 | gene-CTAGE3P | **CTAGE3P** | CTAGE family member 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 220115 | NR_002793 | **TPTE2P3** | transmembrane phosph | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 220134 | NM_001039535,NM | **SKA1** | spindle and kinetochore | protein_coding | 65 | 56 | 66 | 57 | 0.865 |
| 220136 | NM_145020,XM_02 | **CFAP53** | cilia and flagella associa | protein_coding | 2 | 2 | 3 | 3 | 1.124 |
| 220147 | gene-CTBP2P3 | **CTBP2P3** | CTBP2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 220158 | NR_160904 | **GTSCR1** | Gilles de la Tourette syn | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 220164 | NM_152721,XM_01 | **DOK6** | docking protein 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220202 | NM_145178 | **ATOH7** | atonal bHLH transcriptio | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220213 | NM_001145373 | **OTUD1** | OTU deubiquitinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 220296 | NM_152722,XM_00 | **HEPACAM** | hepatic and glial cell adh | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220323 | NM_178507 | **OAF** | out at first homolog | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220359 | NM_145719 | **TIGD3** | tigger transposable elem | protein_coding | 0 | 0 | 1 | 1 | 0.919 |
| 220382 | NM_175885 | **FAM181B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220388 | NM_152723 | **CCDC89** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 220416 | NM_001282460,XM | **LRRC63** | leucine rich repeat conta | protein_coding | 1 | 2 | 2 | 3 | 1.276 |
| 220429 | NR_003268 | **CTAGE10P** | CTAGE family member 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 220433 | gene-RPS4XP16 | **RPS4XP16** | ribosomal protein S4X ps | pseudogene | 1 | 0 | 2 | 1 | 0.603 |
| 220441 | NM_173557,XM_00 | **RNF152** | ring finger protein 152 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220594 | NR_003554 | **USP32P2** | ubiquitin specific peptida | transcribed_pseu | 1 | 0 | 2 | 1 | 0.825 |
| 220717 | gene-RPLP0P6 | **RPLP0P6** | ribosomal protein lateral | pseudogene | 10 | 11 | 11 | 12 | 1.013 |
| 220729 | NR_003266 | **LOC220729** | succinate dehydrogenas | transcribed_pseu | 16 | 15 | 17 | 16 | 0.936 |
| 220786 | gene-CDK7P1 | **CDK7P1** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 220793 | gene-FUNDC2P1 | **FUNDC2P1** | FUN14 domain containin | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 220832 | NR_002935 | **FABP5P3** | fatty acid binding protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 220869 | NM_001024916,NM | **CBWD5** | COBW domain containin | protein_coding | 41 | 38 | 42 | 39 | 0.925 |
| 220885 | gene-RPSAP15 | **RPSAP15** | ribosomal protein SA pse | pseudogene | 32 | 31 | 33 | 32 | 0.996 |
| 220906 | NR_033805 | **WAC-AS1** | WAC antisense RNA 1 (I | lncRNA | 6 | 6 | 7 | 7 | 1.062 |
| 220929 | NM_001143766,NM | **ZNF438** | zinc finger protein 438 | protein_coding | 0 | 0 | 1 | 1 | 0.901 |
| 220930 | NR_024284,NR_14 | **ZEB1-AS1** | ZEB1 antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 0.930 |
| 220963 | NM_001323977,NM | **SLC16A9** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220965 | NM_001001971,NM | **FAM13C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 220972 | NM_001002266,NM | **MARCHF8** | membrane associated rir | protein_coding | 3 | 3 | 4 | 4 | 0.949 |
| 220979 | NR_126421,NR_16 | **ZNF22-AS1** | ZNF22 antisense RNA 1 | lncRNA | 5 | 4 | 6 | 5 | 0.860 |
| 220980 | NR_033842 | **TMEM72-AS1** | TMEM72 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 220988 | NM_001330247,NM | **HNRNPA3** | heterogeneous nuclear r | protein_coding | 643 | 595 | 644 | 596 | 0.925 |
| 220992 | NM_001318140,NM | **ZNF485** | zinc finger protein 485 | protein_coding | 6 | 4 | 7 | 5 | 0.808 |
| 221002 | NM_001282862,NM | **RASGEF1A** | RasGEF domain family r | protein_coding | 24 | 24 | 25 | 25 | 0.998 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 221035 | NM_001001330,XM_ | **REEP3** | receptor accessory prote | protein_coding | 4 | 3 | 5 | 4 | 0.905 |
| 221037 | NM_001282948,NM_ | **JMJD1C** | jumonji domain containir | protein_coding | 8 | 6 | 9 | 7 | 0.808 |
| 221044 | NM_001303118,NM_ | **UCMA** | upper zone of growth pla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221060 | NR_160789 | **RPP38-DT** | RPP38 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 0.907 |
| 221061 | NM_001010924,XM_ | **FAM171A1** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 221074 | NM_001145195,NM_ | **SLC39A12** | solute carrier family 39 m | protein_coding | 3 | 3 | 4 | 4 | 1.062 |
| 221078 | NM_001351115,NM_ | **NSUN6** | NOP2/Sun RNA methyltr | protein_coding | 4 | 4 | 5 | 5 | 0.983 |
| 221079 | NM_178815,XM_005 | **ARL5B** | ADP ribosylation factor li | protein_coding | 6 | 5 | 7 | 6 | 0.876 |
| 221091 | NM_203422 | **LRRN4CL** | LRRN4 C-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 221092 | NM_001079559 | **HNRNPUL2** | heterogeneous nuclear r | protein_coding | 208 | 209 | 209 | 210 | 1.005 |
| 221120 | NM_139178 | **ALKBH3** | alkB homolog 3, alpha-ke | protein_coding | 56 | 63 | 57 | 64 | 1.112 |
| 221122 | NR_026681 | **LINC02685** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 221143 | NM_001318939,NM_ | **EEF1AKMT1** | EEF1A lysine methyltran | protein_coding | 11 | 15 | 12 | 16 | 1.290 |
| 221150 | NM_001166017,NM_ | **SKA3** | spindle and kinetochore | protein_coding | 60 | 52 | 61 | 53 | 0.869 |
| 221154 | NM_152726,XM_01 | **MICU2** | mitochondrial calcium up | protein_coding | 83 | 70 | 84 | 71 | 0.844 |
| 221178 | NM_001166271,NM_ | **SPATA13** | spermatogenesis associa | protein_coding | 65 | 55 | 66 | 56 | 0.854 |
| 221180 | gene-CYCSP33 | **CYCSP33** | CYCS pseudogene 33 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 221184 | NM_152727,XR_00 | **CPNE2** | copine 2 | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 221188 | NM_001304376,NM_ | **ADGRG5** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 0.892 |
| 221191 | NM_001080492,NM_ | **PRSS54** | serine protease 54 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221223 | NM_001143685,NM_ | **CES5A** | carboxylesterase 5A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221241 | NR_027245 | **LINC00305** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 221262 | NR_152435 | **CCDC162P** | coiled-coil domain contai | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 221264 | NM_001145128,NM_ | **AK9** | adenylate kinase 9 | protein_coding | 2 | 3 | 3 | 4 | 1.546 |
| 221294 | NM_152729,XM_00 | **NT5DC1** | 5'-nucleotidase domain c | protein_coding | 6 | 5 | 7 | 6 | 0.918 |
| 221301 | NM_001256887,NM_ | **CALHM4** | calcium homeostasis mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221302 | NM_001361189,NM_ | **ZUP1** | zinc finger containing ub | protein_coding | 19 | 18 | 20 | 19 | 0.971 |
| 221303 | NM_001085480 | **FAM162B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221322 | NM_001367759,NM_ | **TBC1D32** | TBC1 domain family mer | protein_coding | 2 | 2 | 3 | 3 | 0.997 |
| 221336 | NM_001318539,NM_ | **BEND6** | BEN domain containing 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221357 | NM_153699 | **GSTA5** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221391 | NM_181744,NR_03 | **OPN5** | opsin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221393 | NM_001347855,NM_ | **ADGRF4** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 0.911 |
| 221395 | NM_001098518,NM_ | **ADGRF5** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221400 | NM_001010870,NM_ | **TDRD6** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 221409 | NM_001372081,NM_ | **SPATS1** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221416 | NR_160954,NR_16 | **C6orf223** | chromosome 6 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 221421 | NM_001193341,NM_ | **RSPH9** | radial spoke head compc | protein_coding | 0 | 0 | 1 | 1 | 1.078 |
| 221424 | NM_001012974,NM_ | **LRRC73** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 0.917 |
| 221438 | NR_002794 | **TREML5P** | triggering receptor expre | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 221442 | NR_026938 | **ADCY10P1** | ADCY10 pseudogene 1 | transcribed_pseu | 1 | 0 | 2 | 1 | 0.897 |
| 221443 | NM_001329684,NM_ | **OARD1** | O-acyl-ADP-ribose deac | protein_coding | 41 | 50 | 42 | 51 | 1.198 |
| 221458 | NM_001289020,NM_ | **KIF6** | kinesin family member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221468 | NM_001162900,NM_ | **TMEM217** | transmembrane protein 2 | protein_coding | 1 | 1 | 2 | 2 | 1.146 |
| 221472 | NM_173558,XM_01 | **FGD2** | FYVE, RhoGEF and PH | protein_coding | 2 | 3 | 3 | 4 | 1.338 |
| 221476 | NM_001199159,NM_ | **PI16** | peptidase inhibitor 16 | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 221477 | NM_001286635,NM_ | **C6orf89** | chromosome 6 open rea | protein_coding | 51 | 46 | 52 | 47 | 0.910 |
| 221481 | NM_001286574,NM_ | **ARMC12** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 0.966 |
| 221491 | NM_001008703,NM_ | **SMIM29** | small integral membrane | protein_coding | 42 | 50 | 43 | 51 | 1.211 |
| 221496 | NM_001143944,NM_ | **LEMD2** | LEM domain nuclear env | protein_coding | 31 | 31 | 32 | 32 | 0.981 |
| 221504 | NM_152735 | **ZBTB9** | zinc finger and BTB dom | protein_coding | 25 | 26 | 26 | 27 | 1.035 |
| 221527 | NM_181842,XM_01 | **ZBTB12** | zinc finger and BTB dom | protein_coding | 12 | 11 | 13 | 12 | 0.974 |
| 221545 | NM_001109938,NM_ | **C6orf136** | chromosome 6 open rea | protein_coding | 23 | 26 | 24 | 27 | 1.136 |
| 221547 | gene-RANP1 | **RANP1** | RAN pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.180 |
| 221584 | NR_024063 | **ZSCAN12P1** | zinc finger and SCAN do | transcribed_pseu | 1 | 0 | 2 | 1 | 0.762 |
| 221613 | NM_170745 | **H2AC1** | H2A clustered histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221656 | NM_001364614,NM_ | **KDM1B** | lysine demethylase 1B | protein_coding | 19 | 16 | 20 | 17 | 0.840 |
| 221662 | NM_001143941,NM_ | **RBM24** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221687 | NM_001165032,NM_ | **RNF182** | ring finger protein 182 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221692 | NM_001242648,NM_ | **PHACTR1** | phosphatase and actin re | protein_coding | 3 | 2 | 4 | 3 | 0.789 |
| 221710 | NM_001135575 | **SMIM13** | small integral membrane | protein_coding | 20 | 18 | 21 | 19 | 0.877 |
| 221711 | NM_001040274 | **SYCP2L** | synaptonemal complex p | protein_coding | 0 | 0 | 1 | 1 | 1.069 |
| 221717 | gene-MRPL48P1 | **MRPL48P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 221718 | NR_027793 | **LINC00518** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 221749 | NM_183373,XM_01 | **PXDC1** | PX domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221756 | NR_033851 | **SERPINB9P1** | serpin family B member 9 | transcribed_pseu | 1 | 0 | 2 | 1 | 0.858 |
| 221785 | NM_001350979,NM_ | **ZSCAN25** | zinc finger and SCAN do | protein_coding | 29 | 29 | 30 | 30 | 1.018 |
| 221786 | NM_145111,XM_01 | **FAM200A** | family with sequence sim | protein_coding | 9 | 8 | 10 | 9 | 0.885 |
| 221806 | NM_001135924,NM_ | **VWDE** | von Willebrand factor D a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221823 | NM_175886 | **PRPS1L1** | phosphoribosyl pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221830 | NM_001002926 | **POLR1F** | RNA polymerase I subun | protein_coding | 43 | 41 | 44 | 42 | 0.943 |
| 221833 | NM_182700,NM_19 | **SP8** | Sp8 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221838 | gene-EEF1A1P6 | **EEF1A1P6** | eukaryotic translation elc | pseudogene | 301 | 325 | 302 | 326 | 1.080 |
| 221883 | NR_002795 | **HOXA11-AS** | HOXA11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.277 |
| 221895 | NM_175061,XM_00 | **JAZF1** | JAZF zinc finger 1 | protein_coding | 21 | 19 | 22 | 20 | 0.909 |
| 221908 | NM_001346938,NM_ | **PPP1R35** | protein phosphatase 1 re | protein_coding | 65 | 68 | 66 | 69 | 1.052 |
| 221914 | NM_152742 | **GPC2** | glypican 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221927 | NM_001350626,NM_ | **BRAT1** | BRCA1 associated ATM a | protein_coding | 50 | 47 | 51 | 48 | 0.934 |
| 221935 | NM_001079653,NM_ | **SDK1** | sidekick cell adhesion m | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 221937 | NM_001037165 | **FOXK1** | forkhead box K1 | protein_coding | 17 | 15 | 18 | 16 | 0.852 |
| 221938 | NM_001100600,NM_ | **MMD2** | monocyte to macrophage | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 221946 | NR_126168 | **LOC221946** | uncharacterized LOC221 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 221955 | NM_001142936,NM_ | **DAGLB** | diacylglycerol lipase beta | protein_coding | 8 | 8 | 9 | 9 | 0.984 |
| 221960 | NM_198097 | **CCZ1B** | CCZ1 homolog B, vacuo | protein_coding | 68 | 60 | 69 | 61 | 0.882 |
| 221981 | NM_015204,XM_00 | **THSD7A** | thrombospondin type 1 d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222005 | gene-SLC25A5P3 | **SLC25A5P3** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 222008 | NM_001301009,NM_ | **VSTM2A** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222029 | NR_026929 | **DKFZp434L192** | uncharacterized protein I | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 222052 | gene-TTC4P1 | **TTC4P1** | tetratricopeptide repeat d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 222068 | NM_001303058,NM_ | **TMED4** | transmembrane p24 traff | protein_coding | 71 | 71 | 72 | 72 | 1.001 |
| 222161 | NR_002186 | **DKFZP586I1420** | uncharacterized protein I | transcribed_pseu | 1 | 2 | 2 | 3 | 1.275 |
| 222166 | NM_152793,XM_005 | **MTURN** | maturin, neural progenito | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 222171 | NM_001329996,NM_ | **PRR15** | proline rich 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222183 | NM_001110199,NM_ | **SRRM3** | serine/arginine repetitive | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222194 | NM_198467 | **RSBN1L** | round spermatid basic pr | protein_coding | 31 | 27 | 32 | 28 | 0.888 |
| 222223 | NM_001142749,NM_ | **ELAPOR2** | endosome-lysosome ass | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 222229 | NM_001317721,NM_ | **LRWD1** | leucine rich repeats and | protein_coding | 54 | 53 | 55 | 54 | 0.994 |
| 222234 | NM_001145268,NM_ | **FAM185A** | family with sequence sim | protein_coding | 3 | 3 | 4 | 4 | 0.900 |
| 222235 | NM_001111038,NM_ | **FBXL13** | F-box and leucine rich re | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 222236 | NM_001122838,NM_ | **NAPEPLD** | N-acyl phosphatidylethar | protein_coding | 1 | 1 | 2 | 2 | 0.903 |
| 222255 | NM_001318229,NM_ | **ATXN7L1** | ataxin 7 like 1 | protein_coding | 1 | 1 | 2 | 2 | 1.100 |
| 222256 | NM_001301161,NM_ | **CDHR3** | cadherin related family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222389 | NM_001100912,NM_ | **BEND7** | BEN domain containing 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222484 | NM_153371,XM_01 | **LNX2** | ligand of numb-protein X | protein_coding | 23 | 23 | 24 | 24 | 0.999 |
| 222487 | NM_001308360,NM_ | **ADGRG3** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.042 |
| 222537 | NM_153612,XM_00 | **HS3ST5** | heparan sulfate-glucosar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222545 | NM_001286354,NM_ | **GPRC6A** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222546 | NM_173560,XM_01 | **RFX6** | regulatory factor X6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222553 | NM_001029858,XM_ | **SLC35F1** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222584 | NM_001010872,XM_ | **FAM83B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222611 | NM_001368115,NM_ | **ADGRF2** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 0.886 |
| 222642 | NM_001010873,NM_ | **TSPO2** | translocator protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222643 | NM_173561 | **UNC5CL** | unc-5 family C-terminal l | protein_coding | 1 | 1 | 2 | 2 | 0.850 |
| 222658 | NM_001286579,NM_ | **KCTD20** | potassium channel tetrar | protein_coding | 78 | 68 | 79 | 69 | 0.878 |
| 222659 | NM_152990,XM_01 | **PXT1** | peroxisomal testis enrich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222662 | NM_182548 | **LHFPL5** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222663 | NM_001303136,NM_ | **SCUBE3** | signal peptide, CUB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222696 | NM_001012455,XM_ | **ZSCAN23** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222698 | NM_001007531 | **NKAPL** | NFKB activating protein l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222699 | NR_002936 | **TOB2P1** | transducer of ERBB2, 2 p | transcribed_pseu | 1 | 1 | 2 | 2 | 1.121 |
| 222826 | NM_173563,XM_005 | **FAM217A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222865 | NM_001134450,NM_ | **TMEM130** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222894 | NM_152898 | **FERD3L** | Fer3 like bHLH transcript | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 222901 | NR_026673 | **RPL23P8** | ribosomal protein L23 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.368 |
| 222950 | NM_173564 | **NYAP1** | neuronal tyrosine phospl | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 222962 | NM_001040661,NM_ | **SLC29A4** | solute carrier family 29 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 222967 | NM_173565,XM_00! | **RSPH10B** | radial spoke head 10 hor | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 223075 | NM_001257967,NM | **ITPRID1** | ITPR interacting domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 223082 | NM_147128,XR_92( | **ZNRF2** | zinc and ring finger 2 | protein_coding | 6 | 5 | 7 | 6 | 0.784 |
| 223117 | NM_152754,XM_01: | **SEMA3D** | semaphorin 3D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 225689 | NM_139021,XM_01: | **MAPK15** | mitogen-activated protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245711 | NM_001008779,NM | **SPDYA** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 0.929 |
| 245802 | NM_001376909,NM | **MS4A6E** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245806 | NM_153453,NM_18 | **VGLL2** | vestigial like family meml | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245812 | NM_152755 | **CNPY4** | canopy FGF signaling re | protein_coding | 17 | 16 | 18 | 17 | 0.931 |
| 245908 | NM_152250 | **DEFB105A** | defensin beta 105A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245909 | NM_152251 | **DEFB106A** | defensin beta 106A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245910 | NM_001037668 | **DEFB107A** | defensin beta 107A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245911 | NM_001002035 | **DEFB108B** | defensin beta 108B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245912 | NR_024044 | **DEFB109A** | defensin beta 109A (pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 245913 | NM_001037497,NM | **DEFB110** | defensin beta 110 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245915 | NM_001369057 | **DEFB112** | defensin beta 112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245927 | NM_001037729 | **DEFB113** | defensin beta 113 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245928 | NM_001037499 | **DEFB114** | defensin beta 114 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245929 | NM_001037730 | **DEFB115** | defensin beta 115 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245930 | NM_001037731 | **DEFB116** | defensin beta 116 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245932 | NM_001271209,NM | **DEFB119** | defensin beta 119 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245934 | NM_001011878,NM | **DEFB121** | defensin beta 121 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245935 | NR_045677 | **DEFB122** | defensin beta 122 (pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 245936 | NM_153324,NR_12( | **DEFB123** | defensin beta 123 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245937 | NM_001037500,XM | **DEFB124** | defensin beta 124 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245938 | NM_153325 | **DEFB125** | defensin beta 125 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245939 | NM_001037732 | **DEFB128** | defensin beta 128 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245940 | NM_001037804 | **DEFB130A** | defensin beta 130A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245972 | NM_152565 | **ATP6V0D2** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 245973 | NM_001039362,NM | **ATP6V1C2** | ATPase H+ transporting | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 246100 | NM_139250 | **CTAG1A** | cancer/testis antigen 1A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246112 | gene-TAF13P1 | **TAF13P1** | TATA-box binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 246119 | NR_001542 | **TTTY10** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 246122 | NR_001534 | **TTTY7** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 246126 | NR_045128,NR_04! | **TXLNGY** | taxilin gamma pseudoge | transcribed_pseu | 27 | 23 | 28 | 24 | 0.853 |
| 246135 | gene-TAF9BP1 | **TAF9BP1** | TATA-box binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 246175 | NM_001286790,NM | **CNOT6L** | CCR4-NOT transcription | protein_coding | 13 | 11 | 14 | 12 | 0.860 |
| 246176 | NM_139285 | **GAS2L2** | growth arrest specific 2 li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246181 | NR_040288,NR_04( | **AKR7L** | aldo-keto reductase fami | transcribed_pseu | 0 | 0 | 1 | 1 | 0.991 |
| 246182 | NR_002796 | **AKR7A2P1** | aldo-keto reductase fami | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 246184 | NM_139286,XM_01 | **CDC26** | cell division cycle 26 | protein_coding | 105 | 101 | 106 | 102 | 0.968 |
| 246213 | NM_001145288,NM | **SLC17A8** | solute carrier family 17 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246243 | NM_001286834,NM | **RNASEH1** | ribonuclease H1 | protein_coding | 50 | 45 | 51 | 46 | 0.902 |
| 246269 | NM_001323005,NM | **AFG1L** | AFG1 like ATPase | protein_coding | 2 | 2 | 3 | 3 | 1.055 |
| 246283 | id-TRBV22OR9-2 | **TRBV22OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 246285 | id-TRBV26OR9-2 | **TRBV26OR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 246286 | id-TRBVAOR9-2 | **TRBVAOR9-2** | T cell receptor beta varia | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 246312 | NR_038870,NR_03! | **C21orf91-OT1** | C21orf91 overlapping tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 246329 | NM_001286256,NM | **STAC3** | SH3 and cysteine rich dc | protein_coding | 1 | 2 | 2 | 3 | 1.120 |
| 246330 | NM_001098510,NM | **PELI3** | pellino E3 ubiquitin prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246705 | NR_027246 | **LINC00314** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 246714 | gene-CKS1BP2 | **CKS1BP2** | CDC28 protein kinase re | pseudogene | 15 | 15 | 16 | 16 | 1.008 |
| 246715 | gene-CKS1BP3 | **CKS1BP3** | CDC28 protein kinase re | pseudogene | 12 | 12 | 13 | 13 | 0.983 |
| 246716 | gene-YWHAQP2 | **YWHAQP2** | YWHAQ pseudogene 2 | pseudogene | 7 | 8 | 8 | 9 | 1.135 |
| 246717 | gene-ELOBP1 | **ELOBP1** | elongin B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 246719 | gene-UBE2SP1 | **UBE2SP1** | ubiquitin conjugating en: | pseudogene | 22 | 22 | 23 | 23 | 1.022 |
| 246720 | gene-DYNLL1P1 | **DYNLL1P1** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 246721 | NM_032959 | **POLR2J2** | RNA polymerase II subu | protein_coding | 28 | 30 | 29 | 31 | 1.051 |
| 246723 | gene-ATP5PDP4 | **ATP5PDP4** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 246731 | gene-PPIHP1 | **PPIHP1** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.068 |
| 246737 | gene-YWHAZP4 | **YWHAZP4** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 246744 | NM_001007532 | **STH** | saitohin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246754 | NR_027025 | **MTVR2** | mouse mammary tumor | transcribed_pseu | 0 | 0 | 1 | 1 | 0.946 |
| 246777 | NM_145658 | **SPESP1** | sperm equatorial segme | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246778 | NM_145659,XM_01: | **IL27** | interleukin 27 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 246784 | gene-SMU1P1 | **SMU1P1** | SMU1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.978 |
| 246785 | gene-OLA1P1 | **OLA1P1** | OLA1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.958 |
| 252839 | NM_001288564,NM | **TMEM9** | transmembrane protein 9 | protein_coding | 8 | 7 | 9 | 8 | 0.872 |
| 252884 | NM_001322286,NM | **ZNF396** | zinc finger protein 396 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 252946 | NR_001553 | **FAM197Y2** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252948 | NR_001552 | **TTTY16** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252949 | NR_001526 | **TTTY17A** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252950 | NR_001550 | **TTTY18** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252951 | NR_001546 | **TTTY20** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252952 | NR_001549 | **TTTY19** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252953 | NR_001535 | **TTTY21** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252954 | NR_001539 | **TTTY22** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252955 | NR_001540 | **TTTY23** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 252956 | gene-TPM3P1 | **TPM3P1** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 252968 | gene-TNPO1P2 | **TNPO1P2** | transportin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 252969 | NM_001135746,NM | **NEIL2** | nei like DNA glycosylase | protein_coding | 0 | 0 | 1 | 1 | 1.107 |
| 252983 | NM_178509,XM_00! | **STXBP4** | syntaxin binding protein | protein_coding | 2 | 4 | 3 | 5 | 1.573 |
| 252995 | NM_001171940,NM | **FNDC5** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253012 | NM_001039372,NM | **HEPACAM2** | HEPACAM family membe | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 253013 | gene-RPL31P8 | **RPL31P8** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 253017 | NM_001010874,NM | **TECRL** | trans-2,3-enoyl-CoA redu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253018 | NR_026791 | **HCG27** | HLA complex group 27 | lncRNA | 3 | 3 | 4 | 4 | 0.872 |
| 253039 | NR_024408,NR_15: | **CUTALP** | cutA divalent cation toler | transcribed_pseu | 21 | 21 | 22 | 22 | 1.018 |
| 253044 | NR_045123 | **LINGO1-AS1** | LINGO1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253128 | NR_034140 | **LINC00612** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253143 | NM_173566 | **PRR14L** | proline rich 14 like | protein_coding | 15 | 12 | 16 | 13 | 0.827 |
| 253152 | NM_173567 | **EPHX4** | epoxide hydrolase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253175 | NM_001003894,NM | **CDY1B** | chromodomain Y-linked : | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253190 | NM_001284334,NM | **SERHL2** | serine hydrolase like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.886 |
| 253260 | NM_001285439,NM | **RICTOR** | RPTOR independent cor | protein_coding | 15 | 13 | 16 | 14 | 0.839 |
| 253264 | NR_038223,NR_03! | **ZNF503-AS1** | ZNF503 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253272 | gene-PCGF7P | **PCGF7P** | polycomb group ring finc | pseudogene | 0 | 0 | 1 | 1 | 0.964 |
| 253314 | NM_001099408,NM | **EIF4E1B** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253430 | NM_152230,XM_01: | **IPMK** | inositol polyphosphate m | protein_coding | 5 | 4 | 6 | 5 | 0.948 |
| 253461 | NM_001080412,NM | **ZBTB38** | zinc finger and BTB dom | protein_coding | 49 | 44 | 50 | 45 | 0.895 |
| 253512 | NM_001010875,NM | **SLC25A30** | solute carrier family 25 m | protein_coding | 55 | 48 | 56 | 49 | 0.870 |
| 253558 | NM_001002257,NM | **LCLAT1** | lysocardiolipin acyltransf | protein_coding | 13 | 13 | 14 | 14 | 0.950 |
| 253559 | NM_001167674,NM | **CADM2** | cell adhesion molecule 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253573 | NR_033844 | **LINC02052** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253582 | NM_001010876,XM | **TMEM244** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253635 | NM_001278505,NM | **GPATCH11** | G-patch domain containi | protein_coding | 30 | 28 | 31 | 29 | 0.933 |
| 253639 | NM_001256167,NM | **ZNF620** | zinc finger protein 620 | protein_coding | 1 | 2 | 2 | 3 | 1.071 |
| 253650 | NM_001331100,NM | **ANKRD18A** | ankyrin repeat domain 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253665 | gene-ELOBP2 | **ELOBP2** | elongin B pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 253714 | NM_001350599,NM | **MMS22L** | MMS22 like, DNA repair | protein_coding | 17 | 13 | 18 | 14 | 0.788 |
| 253724 | NR_027249 | **TTC41P** | tetratricopeptide repeat d | transcribed_pseu | 0 | 0 | 1 | 1 | 1.096 |
| 253725 | NM_001169106,NM | **WASHC2C** | WASH complex subunit : | protein_coding | 14 | 13 | 15 | 14 | 0.927 |
| 253738 | NM_001005463,NM | **EBF3** | EBF transcription factor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253769 | NM_001202550,NM | **WDR27** | WD repeat domain 27 | protein_coding | 3 | 3 | 4 | 4 | 0.895 |
| 253782 | NM_001256126,NM | **CERS6** | ceramide synthase 6 | protein_coding | 66 | 56 | 67 | 57 | 0.851 |
| 253827 | NM_001031679,NM | **MSRB3** | methionine sulfoxide red | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253832 | NM_001286638,NM | **ZDHHC20** | zinc finger DHHC-type pa | protein_coding | 84 | 67 | 85 | 68 | 0.801 |
| 253868 | NR_033263 | **MIR1-1HG-AS1** | MIR1-1HG antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253935 | NM_178127,XM_01: | **ANGPTL5** | angiopoietin like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253943 | NM_001277813,NM | **YTHDF3** | YTH N6-methyladenosin | protein_coding | 43 | 39 | 44 | 40 | 0.906 |
| 253959 | NM_001283043,NM | **RALGAPA1** | Ral GTPase activating pr | protein_coding | 10 | 8 | 11 | 9 | 0.775 |
| 253962 | NR_038439 | **CACNA1G-AS1** | CACNA1G antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253970 | NR_138597,NR_13! | **SFTA3** | surfactant associated 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 253980 | NM_178863,NR_11( | **KCTD13** | potassium channel tetrar | protein_coding | 20 | 18 | 21 | 19 | 0.877 |
| 253982 | NM_181718,XM_01: | **ASPHD1** | aspartate beta-hydroxyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 253986 | gene-RPL10AP2 | **RPL10AP2** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 0.968 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 254013 | NM_001135863,NM | **ETFBKMT** | electron transfer flavoprc | protein_coding | 1 | 1 | 2 | 2 | 1.010 |
| 254028 | NR_122043 | **LOC254028** | uncharacterized LOC254 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 254042 | NM_001322278,NM | **METAP1D** | methionyl aminopeptidas | protein_coding | 16 | 16 | 17 | 17 | 0.967 |
| 254048 | NM_173569,XM_005 | **UBN2** | ubinuclein 2 | protein_coding | 7 | 6 | 8 | 7 | 0.832 |
| 254050 | NM_001098519,NM | **LRRC43** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254065 | NM_153252,XM_005 | **BRWD3** | bromodomain and WD re | protein_coding | 6 | 5 | 7 | 6 | 0.777 |
| 254099 | NR_038869 | **LINC01342** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 254100 | NR_038923 | **ZNRD2-AS1** | ZNRD2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.010 |
| 254102 | NM_001099409,NM | **EHBP1L1** | EH domain binding prote | protein_coding | 158 | 163 | 159 | 164 | 1.036 |
| 254122 | NM_152760,XM_00 | **SNX32** | sorting nexin 32 | protein_coding | 0 | 0 | 1 | 1 | 1.179 |
| 254128 | NR_037856,NR_037 | **NIFK-AS1** | NIFK antisense RNA 1 | lncRNA | 12 | 12 | 13 | 13 | 1.009 |
| 254158 | NM_001169574,NM | **CXorf58** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 254170 | NM_203301 | **FBXO33** | F-box protein 33 | protein_coding | 11 | 12 | 12 | 13 | 1.014 |
| 254173 | NM_001130045,NM | **TTLL10** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254187 | NM_152762,XM_01 | **TSGA10IP** | testis specific 10 interact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254225 | NM_001098638,XM | **RNF169** | ring finger protein 169 | protein_coding | 15 | 11 | 16 | 12 | 0.742 |
| 254228 | NM_153711 | **CALHM5** | calcium homeostasis mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254240 | NM_174932,XM_01 | **BPIFC** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254251 | NM_001166139,NM | **LCORL** | ligand dependent nuclea | protein_coding | 14 | 12 | 15 | 13 | 0.902 |
| 254263 | NM_182553,NR_07 | **CNIH2** | cornichon family AMPA r | protein_coding | 0 | 1 | 1 | 2 | 1.575 |
| 254268 | NM_152763,NR_04 | **AKNAD1** | AKNA domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254272 | NM_001039397,XM | **TBC1D28** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254295 | NM_001100876,NM | **PHYHD1** | phytanoyl-CoA dioxygena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254312 | NR_015413,NR_02 | **LINC00710** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 254359 | NM_001348571,NM | **ZDHHC24** | zinc finger DHHC-type co | protein_coding | 3 | 4 | 4 | 5 | 1.300 |
| 254394 | NM_001378356,NM | **MCM9** | minichromosome mainte | protein_coding | 8 | 8 | 9 | 9 | 0.980 |
| 254398 | gene-ARHGAP42P4 | **ARHGAP42P4** | ARHGAP42 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 254427 | NM_153256,XM_01 | **PROSER2** | proline and serine rich 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254428 | NM_173854,XM_00 | **SLC41A1** | solute carrier family 41 m | protein_coding | 21 | 18 | 22 | 19 | 0.858 |
| 254439 | NM_001136485,NM | **C11orf86** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254528 | NM_001163560,NM | **MEIOB** | meiosis specific with OB- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254531 | NM_153613,XM_00 | **LPCAT4** | lysophosphatidylcholine | protein_coding | 96 | 95 | 97 | 96 | 0.995 |
| 254552 | NM_001243750,NM | **NUDT8** | nudix hydrolase 8 | protein_coding | 12 | 20 | 13 | 21 | 1.643 |
| 254559 | NR_015411,NR_13 | **MIR9-3HG** | MIR9-3 host gene | lncRNA | 25 | 26 | 26 | 27 | 1.068 |
| 254664 | gene-MAPK6P2 | **MAPK6P2** | mitogen-activated protein | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 254700 | gene-USP12PX | **USP12PX** | USP12 pseudogene X-lir | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 254773 | NM_175735,XM_01 | **LYG2** | lysozyme g2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254778 | NM_152765 | **VXN** | vexin | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 254783 | NM_001005490,XM | **OR6C74** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254786 | NM_054104 | **OR6C3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254827 | NM_207015,XM_00 | **NAALADL2** | N-acetylated alpha-linke | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254863 | NM_152766 | **TMEM256** | transmembrane protein 2 | protein_coding | 21 | 25 | 22 | 26 | 1.220 |
| 254879 | NM_001005471 | **OR2T6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254887 | NM_001320466,NM | **ZDHHC23** | zinc finger DHHC-type pa | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 254896 | NR_046173 | **LOC254896** | uncharacterized LOC254 | lncRNA | 5 | 6 | 6 | 7 | 1.249 |
| 254910 | NM_178438 | **LCE5A** | late cornified envelope 5, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254948 | gene-RPL9P8 | **RPL9P8** | ribosomal protein L9 pse | pseudogene | 382 | 357 | 383 | 358 | 0.935 |
| 254950 | NM_181623 | **KRTAP15-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254956 | NM_001286828,NM | **MORN5** | MORN repeat containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 254958 | gene-REXO1L1P | **REXO1L1P** | REXO1 like 1, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 254973 | NM_001005235 | **OR1L4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255022 | NM_001001412 | **CALHM1** | calcium homeostasis mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255025 | NR_015400 | **LINC00879** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255027 | NM_001128423,NM | **MPV17L** | MPV17 mitochondrial inn | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255031 | NR_015401,NR_07 | **LINC00957** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.055 |
| 255043 | NM_001372013,NM | **TMEM86B** | transmembrane protein 8 | protein_coding | 9 | 9 | 10 | 10 | 1.076 |
| 255057 | NM_152769,XM_01 | **CBARP** | CACN subunit beta asso | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 255061 | NM_001077503,NM | **TAC4** | tachykinin precursor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255082 | NR_026939,NR_02 | **CASC2** | cancer susceptibility 2 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 255101 | NM_001278295,NM | **CFAP65** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255104 | NM_001349112,NM | **TMCO4** | transmembrane and coil | protein_coding | 37 | 37 | 38 | 38 | 1.017 |
| 255119 | NM_001206997,NM | **CFAP299** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255130 | NR_034081 | **IGFBP7-AS1** | IGFBP7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255167 | NR_024423,NR_02 | **LINC01018** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255180 | NR_136885 | **GOLGA2P11** | GOLGA2 pseudogene 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 255187 | NR_122044 | **SH3TC2-DT** | SH3TC2 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255189 | NM_213600,NR_03 | **PLA2G4F** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255193 | NR_033400 | **CSNK1G2-AS1** | CSNK1G2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255208 | gene-TUBB8P9 | **TUBB8P9** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 255220 | NM_001003936,NM | **TXNDC8** | thioredoxin domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255231 | NM_001330647,NM | **MCOLN2** | mucolipin 2 | protein_coding | 22 | 19 | 23 | 20 | 0.899 |
| 255239 | NM_178510,XM_01 | **ANKK1** | ankyrin repeat and kinas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255252 | NM_153260,XM_01 | **LRRC57** | leucine rich repeat conta | protein_coding | 11 | 11 | 12 | 12 | 1.017 |
| 255275 | NM_001145113 | **MYADML2** | myeloid associated differ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255308 | NM_001357731,NM | **EIF2S3B** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 0.964 |
| 255313 | NM_173571,XM_01 | **CT47A11** | cancer/testis antigen fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255324 | NM_001270989,NM | **EPGN** | epithelial mitogen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255330 | NR_034158 | **NUP210P1** | nucleoporin 210 pseudog | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 255349 | NM_001001663,XM | **TMEM211** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255374 | NM_203397,XM_00 | **MBLAC1** | metallo-beta-lactamase d | protein_coding | 5 | 5 | 6 | 6 | 1.042 |
| 255394 | NM_001286262,NM | **TCP11L2** | t-complex 11 like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 255403 | NM_001039127,NM | **ZNF718** | zinc finger protein 718 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255411 | NM_001351123,NM | **TEX49** | testis expressed 49 | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 255426 | NM_175062 | **RASGEF1C** | RasGEF domain family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255480 | NR_038440 | **TBX5-AS1** | TBX5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255488 | NM_182757,XM_00 | **RNF144B** | ring finger protein 144B | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 255512 | NR_029409 | **TOLLIP-AS1** | TOLLIP antisense RNA 1 | lncRNA | 3 | 2 | 4 | 3 | 0.659 |
| 255520 | NM_153702,XM_00 | **ELMOD2** | ELMO domain containing | protein_coding | 11 | 10 | 12 | 11 | 0.898 |
| 255620 | gene-UNC93B6 | **UNC93B6** | unc-93 homolog B6 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 255626 | NM_170610 | **H2BC1** | H2B clustered histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255631 | NM_001349955,NM | **COL24A1** | collagen type XXIV alpha | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 255649 | NR_130719 | **OOSP1** | oocyte secreted protein 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 255654 | NR_040002 | **LINC01743** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 255725 | NM_001004052 | **OR52B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255738 | NM_174936,NR_11 | **PCSK9** | proprotein convertase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255743 | NM_001033047,NM | **NPNT** | nephronectin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255758 | NM_001351628,NM | **TCTEX1D2** | Tctex1 domain containing | protein_coding | 24 | 24 | 25 | 25 | 1.004 |
| 255762 | NM_001363519,NM | **PDZD9** | PDZ domain containing 9 | protein_coding | 0 | 0 | 1 | 1 | 1.075 |
| 255783 | NM_178511,NR_03 | **INAFM1** | InaF motif containing 1 | protein_coding | 4 | 5 | 5 | 6 | 1.208 |
| 255798 | NM_001077657,NM | **SMCO1** | single-pass membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.157 |
| 255809 | NM_001136482,XM | **C19orf38** | chromosome 19 open rea | protein_coding | 1 | 0 | 2 | 1 | 0.731 |
| 255812 | NR_003264 | **SDHAP1** | succinate dehydrogenas | transcribed_pseu | 9 | 9 | 10 | 10 | 1.041 |
| 255877 | NM_181844 | **BCL6B** | BCL6B transcription repr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255919 | NM_001281789,NM | **CNEP1R1** | CTD nuclear envelope ph | protein_coding | 20 | 18 | 21 | 19 | 0.931 |
| 255926 | NR_001448 | **ADAM5** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 255928 | NM_001146261,NM | **SYT14** | synaptotagmin 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 255967 | NM_175854,XM_00 | **PAN3** | poly(A) specific ribonucle | protein_coding | 20 | 17 | 21 | 18 | 0.833 |
| 256006 | NM_001164443,NM | **ANKRD31** | ankyrin repeat domain 3 | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 256021 | NR_046159,NR_04 | **LINC01619** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 256051 | NM_001199295,NM | **ZNF549** | zinc finger protein 549 | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 256076 | NM_001278298,NM | **COL6A5** | collagen type VI alpha 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256085 | gene-WRBP1 | **WRBP1** | tryptophan rich basic prc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 256126 | NM_001105578,XM | **SYCE2** | synaptonemal complex c | protein_coding | 1 | 2 | 2 | 3 | 1.382 |
| 256130 | NM_001363562,NM | **TMEM196** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256144 | NM_001004702 | **OR4C3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256148 | NM_001004725 | **OR4S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256158 | NM_001291815,XM | **HMCN2** | hemicentin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256223 | NM_001190790 | **CDRT15L2** | CMT1A duplicated regior | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256227 | NM_001164460,NM | **STEAP1B** | STEAP family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256236 | NR_002798 | **NAPSB** | napsin B aspartic peptid | transcribed_pseu | 0 | 0 | 1 | 1 | 1.186 |
| 256281 | NM_001318380,NM | **NUDT14** | nudix hydrolase 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256297 | NM_178161 | **PTF1A** | pancreas associated trar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256302 | NM_152914 | **NATD1** | N-acetyltransferase dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256309 | NM_001145411,NM | **CCDC110** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256329 | NM_173573,XM_01 | **LMNTD2** | lamin tail domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.006 |
| 256355 | NR_026676 | **RPS2P32** | ribosomal protein S2 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 256356 | NM_001039547,NR_ | **GK5** | glycerol kinase 5 | protein_coding | 13 | 10 | 14 | 11 | 0.811 |
| 256364 | NM_001300793,NM | **EML3** | EMAP like 3 | protein_coding | 40 | 44 | 41 | 45 | 1.092 |
| 256369 | NM_001351596,NR_ | **CCDC197** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256374 | gene-PPIAP72 | **PPIAP72** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.270 |
| 256380 | NM_001286408,NM | **SCML4** | Scm polycomb group pro | protein_coding | 8 | 6 | 9 | 7 | 0.746 |
| 256394 | NM_001080451,XM | **SERPINA11** | serpin family A member 1 | protein_coding | 1 | 0 | 2 | 1 | 0.890 |
| 256435 | NM_001160011,NM | **ST6GALNAC3** | ST6 N-acetylgalactosami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256471 | NM_001363520,NM | **MFSD8** | major facilitator superfan | protein_coding | 6 | 6 | 7 | 7 | 0.925 |
| 256472 | NM_153266 | **TMEM151A** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 256536 | NM_174937 | **TCERG1L** | transcription elongation r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256586 | NM_001143917,NM | **LYSMD2** | LysM domain containing | protein_coding | 22 | 26 | 23 | 27 | 1.200 |
| 256643 | NM_001367774,NM | **BCLAF3** | BCLAF1 and THRAP3 fa | protein_coding | 2 | 2 | 3 | 3 | 0.802 |
| 256646 | NM_001284292,NM | **NUTM1** | NUT midline carcinoma f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256691 | NM_001347990,NM | **MAMDC2** | MAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256710 | NM_001304964,NM | **GLIPR1L1** | GLIPR1 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256714 | NM_001168465,NM | **MAP7D2** | MAP7 domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 256764 | NM_001277176,NM | **WDR72** | WD repeat domain 72 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256815 | NM_001351306,NM | **C10orf67** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256880 | NR_125923 | **H2AZ1-DT** | H2AZ1 divergent transcri | lncRNA | 0 | 1 | 1 | 2 | 1.835 |
| 256892 | NM_001004752 | **OR51F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256933 | NM_148896 | **NPB** | neuropeptide B | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 256949 | NM_198471,XM_00 | **KANK3** | KN motif and ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256957 | NM_001321395,NM | **HEATR9** | HEAT repeat containing 9 | protein_coding | 0 | 0 | 1 | 1 | 1.123 |
| 256979 | NM_001030019,NM | **SUN3** | Sad1 and UNC84 domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 256987 | NM_001174071,NM | **SERINC5** | serine incorporator 5 | protein_coding | 1 | 1 | 2 | 2 | 1.014 |
| 257000 | NR_027064 | **TINCR** | TINCR ubiquitin domain | lncRNA | 0 | 0 | 1 | 1 | 0.915 |
| 257019 | NM_001244959,NM | **FRMD3** | FERM domain containing | protein_coding | 0 | 0 | 1 | 1 | 0.928 |
| 257044 | NM_001130957,NM | **CATSPERE** | catsper channel auxiliary | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 257062 | NM_152784,XM_01 | **CATSPERD** | cation channel sperm as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257068 | NM_001185106,NM | **PLCXD2** | phosphatidylinositol spe | protein_coding | 3 | 3 | 4 | 4 | 0.919 |
| 257093 | gene-PSME2P1 | **PSME2P1** | proteasome activator sub | pseudogene | 1 | 1 | 2 | 2 | 0.969 |
| 257101 | NM_001114759,NM | **ZNF683** | zinc finger protein 683 | protein_coding | 5 | 4 | 6 | 5 | 0.824 |
| 257106 | NM_001025598,NM | **ARHGAP30** | Rho GTPase activating p | protein_coding | 311 | 291 | 312 | 292 | 0.936 |
| 257144 | NM_001190259,NM | **GCSAM** | germinal center associat | protein_coding | 1 | 0 | 2 | 1 | 0.775 |
| 257160 | NM_001077239,NM | **RNF214** | ring finger protein 214 | protein_coding | 15 | 14 | 16 | 15 | 0.963 |
| 257169 | NM_001278629,NM | **C9orf43** | chromosome 9 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.945 |
| 257177 | NM_001013625 | **CFAP126** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257194 | NM_173808,XM_01 | **NEGR1** | neuronal growth regulat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257202 | NM_182701 | **GPX6** | glutathione peroxidase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257203 | NR_026719 | **DSCR9** | Down syndrome critical r | lncRNA | 3 | 2 | 4 | 3 | 0.892 |
| 257218 | NM_001042683,NM | **SHPRH** | SNF2 histone linker PHD | protein_coding | 12 | 11 | 13 | 12 | 0.905 |
| 257236 | NM_153376 | **CCDC96** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.809 |
| 257240 | NM_153270 | **KLHL34** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 257313 | NM_198152,XM_01 | **UTS2B** | urotensin 2B | protein_coding | 1 | 1 | 2 | 2 | 1.150 |
| 257358 | NR_026945,NR_10 | **LINC01366** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.166 |
| 257364 | NM_001318146,NM | **SNX33** | sorting nexin 33 | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 257396 | NR_034107,NR_10 | **LOC257396** | uncharacterized LOC257 | lncRNA | 7 | 7 | 8 | 8 | 0.994 |
| 257397 | NM_152787,XM_00 | **TAB3** | TGF-beta activated kinas | protein_coding | 14 | 12 | 15 | 13 | 0.873 |
| 257407 | NM_001144994 | **C2orf72** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 257415 | NM_001040057,NM | **FAM133B** | family with sequence sim | protein_coding | 40 | 37 | 41 | 38 | 0.913 |
| 257468 | gene-MEIS3P2 | **MEIS3P2** | Meis homeobox 3 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 257629 | NM_145865 | **ANKS4B** | ankyrin repeat and sterile | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 258010 | NM_001320340,NM | **SVIP** | small VCP interacting pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259173 | NM_001190707,NM | **ALS2CL** | ALS2 C-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259197 | NM_001145466,NM | **NCR3** | natural cytotoxicity trigge | protein_coding | 393 | 396 | 394 | 397 | 1.010 |
| 259215 | NM_001003693 | **LY6G6F** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259217 | NM_001330164,NM | **HSPA12A** | heat shock protein family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259230 | NM_147156,XM_00 | **SGMS1** | sphingomyelin synthase | protein_coding | 13 | 14 | 14 | 15 | 1.020 |
| 259232 | NM_001350748,NM | **NALCN** | sodium leak channel, no | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259234 | NR_027695 | **DSCR10** | Down syndrome critical r | lncRNA | 3 | 4 | 4 | 5 | 1.153 |
| 259236 | NM_001370524,NM | **TMIE** | transmembrane inner ea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259239 | NM_147197 | **WFDC11** | WAP four-disulfide core d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259240 | NM_147198 | **WFDC9** | WAP four-disulfide core d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259249 | NM_147199 | **MRGPRX1** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259266 | NM_001206846,NM | **ASPM** | assembly factor for spinc | protein_coding | 39 | 29 | 40 | 30 | 0.759 |
| 259282 | NM_148894,XM_00 | **BOD1L1** | biorientation of chromos | protein_coding | 24 | 19 | 25 | 20 | 0.826 |
| 259283 | NR_167901,NR_16 | **MDS2** | myelodysplastic syndrom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 259285 | NM_176881 | **TAS2R39** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259286 | NM_176882 | **TAS2R40** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259287 | NM_176883 | **TAS2R41** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259289 | NM_176884 | **TAS2R43** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259290 | NM_176885 | **TAS2R31** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.033 |
| 259292 | NM_176887 | **TAS2R46** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259293 | NM_001097643 | **TAS2R30** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.118 |
| 259294 | NM_176888 | **TAS2R19** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.098 |
| 259295 | NM_176889 | **TAS2R20** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.269 |
| 259296 | NM_176890 | **TAS2R50** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 259307 | NM_001258017,NM | **IL4I1** | interleukin 4 induced 1 | protein_coding | 0 | 1 | 1 | 2 | 1.222 |
| 259308 | NM_001141917 | **FAM205A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 260293 | NM_001320289,NM | **CYP4X1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 260294 | NR_033323 | **NSUN5P2** | NSUN5 pseudogene 2 | transcribed_pseu | 17 | 21 | 18 | 22 | 1.181 |
| 260332 | gene-ECEL1P3 | **ECEL1P3** | endothelin converting en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260334 | NM_001358689,XM_ | **TUBB8B** | tubulin beta 8B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 260335 | gene-ELF2P2 | **ELF2P2** | ELF2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260336 | gene-ELF2P3 | **ELF2P3** | ELF2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260337 | gene-UHRF2P1 | **UHRF2P1** | ubiquitin like with PHD a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260340 | gene-TFAMP2 | **TFAMP2** | transcription factor A, mi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260341 | NR_001288 | **TFAMP1** | transcription factor A, mit | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 260342 | gene-COPS8P1 | **COPS8P1** | COP9 signalosome subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260421 | gene-LOC260421 | **LOC260421** | actin related protein 2/3 c | pseudogene | 0 | 0 | 1 | 1 | 0.970 |
| 260422 | gene-LOC260422 | **LOC260422** | actin related protein 2/3 c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 260425 | NM_001142782,NM | **MAGI3** | membrane associated gu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 260429 | NM_152891,XM_01 | **PRSS33** | serine protease 33 | protein_coding | 2 | 2 | 3 | 3 | 1.017 |
| 260434 | NM_152901 | **PYDC1** | pyrin domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 260436 | NM_152997 | **FDCSP** | follicular dendritic cell se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 261726 | NM_001031800,NM | **TIPRL** | TOR signaling pathway r | protein_coding | 80 | 73 | 81 | 74 | 0.923 |
| 261729 | NM_001040665,NM | **STEAP2** | STEAP2 metalloreductas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 261734 | NM_001291593,NM | **NPHP4** | nephrocystin 4 | protein_coding | 5 | 5 | 6 | 6 | 1.054 |
| 261735 | gene-TVP23CP2 | **TVP23CP2** | TVP23C pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266553 | XM_017011612 | **OFCC1** | orofacial cleft 1 candidat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 266623 | gene-SLC25A5P1 | **SLC25A5P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266625 | gene-NDUFA9P1 | **NDUFA9P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266629 | NM_001257378,NM | **SEC14L3** | SEC14 like lipid binding | protein_coding | 0 | 0 | 1 | 1 | 0.935 |
| 266643 | gene-EDDM3CP | **EDDM3CP** | epididymal protein 3C, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266655 | NM_001355256,NR | **BRD3OS** | BRD3 opposite strand | protein_coding | 3 | 3 | 4 | 4 | 1.129 |
| 266657 | gene-TAS2R15P | **TAS2R15P** | taste 2 receptor member | pseudogene | 0 | 0 | 1 | 1 | 0.862 |
| 266673 | gene-ZNF402P | **ZNF402P** | zinc finger protein 402, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266675 | NM_153274,XM_01 | **BEST4** | bestrophin 4 | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 266683 | gene-EIF3MP1 | **EIF3MP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266694 | gene-LOC266694 | **LOC266694** | embryonic ectoderm dev | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266697 | NR_024592 | **POM121L4P** | POM121 transmembrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 266698 | gene-ARHGAP42P3 | **ARHGAP42P3** | ARHGAP42 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266699 | gene-FABP5P11 | **FABP5P11** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.076 |
| 266722 | NM_153456,XM_01 | **HS6ST3** | heparan sulfate 6-O-sulf | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 266723 | gene-PSMC6P1 | **PSMC6P1** | proteasome 26S subunit | pseudogene | 1 | 1 | 2 | 2 | 1.313 |
| 266724 | gene-HSPA9P1 | **HSPA9P1** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 266727 | NM_153487,XM_00 | **MDGA1** | MAM domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 266740 | NM_001321400,NM | **MAGEA2B** | MAGE family member A2 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 266743 | NM_001318804,NM | **NPAS4** | neuronal PAS domain pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 266747 | NM_001329424,NM | **RGL4** | ral guanine nucleotide di | protein_coding | 53 | 56 | 54 | 57 | 1.050 |
| 266783 | gene-PSMD2P1 | **PSMD2P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 0.960 |
| 266785 | gene-NUP50P2 | **NUP50P2** | nucleoporin 50 pseudoge | pseudogene | 1 | 1 | 2 | 2 | 0.938 |
| 266786 | gene-NUP50P3 | **NUP50P3** | nucleoporin 50 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.955 |
| 266812 | NM_153757 | **NAP1L5** | nucleosome assembly pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 266917 | NR_040254 | **D21S2088E** | D21S2088E | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 266919 | NR_038855 | **LINC00307** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 266920 | gene-AK2P1 | **AK2P1** | adenylate kinase 2 pseu | pseudogene | 1 | 2 | 2 | 3 | 1.326 |
| 266954 | gene-CABYRP1 | **CABYRP1** | calcium binding tyrosine | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 266971 | NR_002319 | **PIPSL** | PIP5K1A and PSMD4 like | transcribed_pseu | 1 | 1 | 2 | 2 | 1.001 |
| 266977 | NM_025048,NM_15 | **ADGRF1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 267002 | NM_001017434,NM | **PGBD2** | piggyBac transposable e | protein_coding | 3 | 2 | 4 | 3 | 0.936 |
| 267004 | NM_170753 | **PGBD3** | piggyBac transposable e | protein_coding | 0 | 0 | 1 | 1 | 1.063 |
| 267005 | gene-PGBD3P1 | **PGBD3P1** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 267007 | gene-PGBD3P3 | **PGBD3P3** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 267008 | gene-PGBD3P4 | **PGBD3P4** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 267009 | gene-RPS9P2 | **RPS9P2** | ribosomal protein S9 pse | pseudogene | 0 | 0 | 1 | 1 | 0.884 |
| 267010 | NR_029422 | **RNU12** | RNA, U12 small nuclear | snRNA | 0 | 2 | 1 | 3 | 3.048 |
| 267012 | NM_001161812,NM | **DAOA** | D-amino acid oxidase act | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 267020 | NM_001165877 | **ATP5MGL** | ATP synthase membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 276719 | gene-SOCS2P1 | **SOCS2P1** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 280636 | NM_001321335,NM | **SELENOH** | selenoprotein H | protein_coding | 187 | 199 | 188 | 200 | 1.064 |
| 280637 | gene-PSMD7P1 | **PSMD7P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 280644 | gene-PSMD10P2 | **PSMD10P2** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 280655 | NR_002937 | **IGBP1P1** | immunoglobulin (CD79A | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 280657 | NR_028366 | **SSX6P** | SSX family member 6, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 280658 | NM_173358,XM_01 | **SSX7** | SSX family member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 280659 | NR_027250 | **SSX8P** | SSX family member 8, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 280660 | NR_073393 | **SSX9P** | SSX family member 9, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 280661 | gene-EIF1AXP1 | **EIF1AXP1** | EIF1AX pseudogene 1 | pseudogene | 19 | 16 | 20 | 17 | 0.859 |
| 280664 | NM_172006,NM_17 | **WFDC10B** | WAP four-disulfide core | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282566 | NR_024092 | **LINC00515** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.884 |
| 282616 | NM_172138 | **IFNL2** | interferon lambda 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282617 | NM_001346937,NM | **IFNL3** | interferon lambda 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282618 | NM_172140 | **IFNL1** | interferon lambda 1 | protein_coding | 1 | 1 | 2 | 2 | 0.839 |
| 282679 | NM_001363477,NM | **AQP11** | aquaporin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 282694 | gene-NASPP1 | **NASPP1** | nuclear autoantigenic sp | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 282697 | gene-DIS3L2P1 | **DIS3L2P1** | DIS3 like 3'-5' exoribonuc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 282706 | NR_040247 | **DAOA-AS1** | DAOA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 282763 | NM_001005567,NR_ | **OR51B5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282770 | NM_001005491 | **OR10AG1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282775 | NM_001005492 | **OR5J2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282808 | NM_001031834 | **RAB40AL** | RAB40A like | protein_coding | 0 | 0 | 1 | 1 | 0.884 |
| 282809 | NM_001199777,NM | **POC1B** | POC1 centriolar protein I | protein_coding | 23 | 19 | 24 | 20 | 0.836 |
| 282890 | NM_001010877,NM | **ZNF311** | zinc finger protein 311 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282966 | NM_001042427,NM | **C10orf53** | chromosome 10 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282967 | gene-MAPK6P6 | **MAPK6P6** | mitogen-activated protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 282969 | NM_001098483,NM | **FUOM** | fucose mutarotase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282973 | NM_001105521,NM | **JAKMIP3** | Janus kinase and microt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282974 | NM_001318878,NM | **STK32C** | serine/threonine kinase 3 | protein_coding | 7 | 5 | 8 | 6 | 0.753 |
| 282980 | NR_040253 | **LINC00700** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 282991 | NM_001001342,NM | **BLOC1S2** | biogenesis of lysosomal | protein_coding | 41 | 43 | 42 | 44 | 1.034 |
| 282996 | NM_001134363,XM | **RBM20** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 282997 | NR_026932 | **PDCD4-AS1** | PDCD4 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.192 |
| 283008 | NM_001355263,XM | **NUTM2E** | NUT family member 2E | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 283011 | NR_026835 | **FLJ37201** | tigger transposable elem | transcribed_pseu | 1 | 1 | 2 | 2 | 0.752 |
| 283014 | gene-EIF2S2P3 | **EIF2S2P3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.960 |
| 283025 | NR_024340 | **LINC01553** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283028 | NR_136644 | **LOC283028** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283033 | NR_033846,NR_13 | **LINC00841** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283038 | NR_033848 | **LOC283038** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283045 | NR_104162 | **LOC283045** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283050 | NR_015429,NR_02 | **ZMIZ1-AS1** | ZMIZ1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283078 | NM_001242702,NM | **MKX** | mohawk homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283080 | NR_164114 | **C10orf126** | chromosome 10 open re | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283089 | NR_033850 | **WDR11-AS1** | WDR11 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283092 | NM_001001955 | **OR4C13** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283093 | NM_001005270 | **OR4C12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283102 | NR_027713 | **KRT8P41** | keratin 8 pseudogene 41 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 283104 | NR_036485 | **SBF2-AS1** | SBF2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.108 |
| 283106 | NM_001256686 | **CSNK2A3** | casein kinase 2 alpha 3 | protein_coding | 1 | 1 | 2 | 2 | 0.948 |
| 283110 | NM_001348257 | **OR52Z1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283111 | NM_001004760 | **OR51V1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283114 | gene-RPS25P1 | **RPS25P1** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.094 |
| 283116 | NM_001206626,XM | **TRIM49B** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283120 | NR_002196,NR_13 | **H19** | H19 imprinted maternall | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283129 | NM_001037225,NM | **MAJIN** | membrane anchored jun | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283130 | NM_001077241,NM | **SLC25A45** | solute carrier family 25 m | protein_coding | 4 | 4 | 5 | 5 | 1.085 |
| 283131 | NR_028272,NR_13 | **NEAT1** | nuclear paraspeckle ass | lncRNA | 152 | 141 | 153 | 142 | 0.930 |
| 283140 | NR_126004 | **LINC02762** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.088 |
| 283143 | NR_034148 | **LINC00900** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283149 | NM_001378213,NM | **BCL9L** | BCL9 like | protein_coding | 8 | 8 | 9 | 9 | 0.974 |
| 283150 | NM_181721,XM_01 | **FOXR1** | forkhead box R1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283152 | NM_001145018 | **CCDC153** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 283159 | NM_001002917 | **OR8D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283160 | NM_001002918 | **OR8D2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283162 | NM_001005196 | **OR8B4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283165 | NR_040078 | **KIRREL3-AS3** | KIRREL3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283171 | NR_164144 | **LINC02873** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 283172 | gene-LOC283172 | **LOC283172** | calponin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283177 | NR_033852 | **B3GAT1-DT** | B3GAT1 diverget transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283189 | NM_001005284 | **OR9G4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283194 | NR_033853 | **LOC283194** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283197 | NR_026946 | **LINC00301** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283208 | NM_001288748,NM | **P4HA3** | prolyl 4-hydroxylase sub | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283209 | NM_173582,XM_01 | **PGM2L1** | phosphoglucomutase 2 l | protein_coding | 1 | 1 | 2 | 2 | 0.811 |
| 283212 | NM_001039548 | **KLHL35** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283214 | NR_046090 | **LOC283214** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283219 | NM_001029859,XM | **KCTD21** | potassium channel tetrar | protein_coding | 3 | 3 | 4 | 4 | 1.040 |
| 283226 | gene-FNTAP1 | **FNTAP1** | farnesyltransferase, CAA | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283229 | NM_001286606,NM | **CRACR2B** | calcium release activatec | protein_coding | 11 | 13 | 12 | 14 | 1.138 |
| 283232 | NM_001042463,NM | **TMEM80** | transmembrane protein 8 | protein_coding | 34 | 39 | 35 | 40 | 1.146 |
| 283234 | NM_032251,XM_00 | **CCDC88B** | coiled-coil domain contai | protein_coding | 67 | 65 | 68 | 66 | 0.960 |
| 283236 | gene-EEF1DP8 | **EEF1DP8** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283237 | NM_001318812,NM | **TTC9C** | tetratricopeptide repeat c | protein_coding | 48 | 47 | 49 | 48 | 0.966 |
| 283238 | NM_001136506,NM | **SLC22A24** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283248 | NM_001363648,NM | **RCOR2** | REST corepressor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283254 | NM_173811,XM_01 | **HARBI1** | harbinger transposase d | protein_coding | 5 | 7 | 6 | 8 | 1.269 |
| 283257 | gene-TRIM51FP | **TRIM51FP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283267 | NR_015451 | **LINC00294** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 283284 | NM_173588,NR_16 | **IGSF22** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283297 | NM_207186 | **OR10A4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283298 | NM_001370498,NM | **OLFML1** | olfactomedin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283299 | NR_036678 | **LOC283299** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283303 | NR_027138 | **MRGPRG-AS1** | MRGPRG antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283310 | NM_001368062,NM | **OTOGL** | otogelin like | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 283314 | NR_026947 | **C1RL-AS1** | C1RL antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 0.940 |
| 283316 | NM_001297650,NM | **CD163L1** | CD163 molecule like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283320 | gene-HSPD1P12 | **HSPD1P12** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283332 | NR_026948,NR_14 | **LINC02396** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283335 | NR_033854 | **LOC283335** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 283337 | NM_001004304,XM | **ZNF740** | zinc finger protein 740 | protein_coding | 15 | 14 | 16 | 15 | 0.915 |
| 283345 | NR_002803 | **RPL13P5** | ribosomal protein L13 ps | transcribed_pseu | 1 | 2 | 2 | 3 | 1.586 |
| 283349 | NM_178169,NR_04 | **RASSF3** | Ras association domain | protein_coding | 33 | 30 | 34 | 31 | 0.902 |
| 283352 | NR_104172,NR_10 | **TMEM132D-AS1** | TMEM132D antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283358 | NM_173593 | **B4GALNT3** | beta-1,4-N-acetyl-galacto | protein_coding | 22 | 23 | 23 | 24 | 1.047 |
| 283365 | NM_001005493 | **OR6C6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283373 | NM_173595,XM_01 | **ANKRD52** | ankyrin repeat domain 5 | protein_coding | 35 | 33 | 36 | 34 | 0.933 |
| 283375 | NM_001135195,NM | **SLC39A5** | solute carrier family 39 m | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 283377 | NM_207344 | **SPRYD4** | SPRY domain containing | protein_coding | 3 | 3 | 4 | 4 | 0.863 |
| 283383 | NM_001330497,NM | **ADGRD1** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283385 | NM_001363685,NM | **MORN3** | MORN repeat containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283387 | NR_148947 | **LOC283387** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 283392 | NR_026836,NR_02 | **TRHDE-AS1** | TRHDE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283398 | gene-SUCLG2P2 | **SUCLG2P2** | SUCLG2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 283403 | NR_164127,NR_164 | **LINC02874** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283404 | NR_027358 | **LINC00592** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283412 | gene-RPL29P12 | **RPL29P12** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 0.891 |
| 283416 | NR_121682 | **LINC01465** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.854 |
| 283417 | NM_173812,XM_00 | **DPY19L2** | dpy-19 like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283420 | NM_207345 | **CLEC9A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283422 | NR_036555 | **LINC01559** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283431 | NM_001303130,NM | **GAS2L3** | growth arrest specific 2 li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283432 | NR_033855 | **LINC00485** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283435 | NR_147498 | **LINC02825** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283440 | NR_146317,NR_14 | **ITFG2-AS1** | ITFG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.038 |
| 283446 | NM_001101421,XM_ | **MYO1H** | myosin IH | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283450 | NM_001109662 | **HECTD4** | HECT domain E3 ubiquit | protein_coding | 11 | 8 | 12 | 9 | 0.798 |
| 283455 | NM_173598,XM_01 | **KSR2** | kinase suppressor of ras | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283458 | gene-NME2P1 | **NME2P1** | NME2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 283459 | NM_176818,NR_03 | **GATC** | glutamyl-tRNA amidotrar | protein_coding | 38 | 33 | 39 | 34 | 0.886 |
| 283460 | NR_024345 | **HNF1A-AS1** | HNF1A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283461 | NM_001031748,NM | **C12orf40** | chromosome 12 open re | protein_coding | 0 | 0 | 1 | 1 | 0.904 |
| 283463 | NM_173600 | **MUC19** | mucin 19, oligomeric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283464 | NM_001099650,NM | **GXYLT1** | glucoside xylosyltransfer | protein_coding | 24 | 21 | 25 | 22 | 0.883 |
| 283471 | NM_182559 | **TMPRSS12** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283480 | NR_036486 | **FGF14-IT1** | FGF14 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 283481 | NR_036487 | **FGF14-AS2** | FGF14 antisense RNA 2 | lncRNA | 4 | 5 | 5 | 6 | 1.112 |
| 283483 | NR_051977 | **LINC00551** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283486 | NR_135280 | **LINC00567** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283487 | NR_027701 | **PRECSIT** | p53 regulated carcinoma | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283489 | NM_001164144,NM | **CHAMP1** | chromosome alignment r | protein_coding | 36 | 33 | 37 | 34 | 0.918 |
| 283491 | NR_002171 | **OR7E156P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 283507 | NR_003365 | **SUGT1P3** | SUGT1 pseudogene 3 | transcribed_pseu | 0 | 1 | 1 | 2 | 1.451 |
| 283514 | NM_198849 | **SIAH3** | siah E3 ubiquitin protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283518 | NM_173605,NM_19 | **KCNRG** | potassium channel regul | protein_coding | 1 | 1 | 2 | 2 | 0.833 |
| 283521 | NM_001351003,NM | **TMEM272** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283523 | gene-TERF1P5 | **TERF1P5** | TERF1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.037 |
| 283537 | NM_001135919,NM | **SLC46A3** | solute carrier family 46 m | protein_coding | 8 | 6 | 9 | 7 | 0.788 |
| 283547 | NR_039982 | **LINC00639** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283551 | NR_126496,NR_12 | **LINC01588** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.028 |
| 283553 | NR_038358 | **LINC00640** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283554 | NM_001099652,NM | **GPR137C** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 283556 | gene-UBE2L1 | **UBE2L1** | ubiquitin conjugating en | pseudogene | 13 | 15 | 14 | 16 | 1.184 |
| 283571 | NM_001080408,NM | **PROX2** | prospero homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 283575 | NR_110554 | **LINC02288** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283576 | NM_001364172,NM | **ZDHHC22** | zinc finger DHHC-type p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283578 | NM_001346131,NM | **TMED8** | transmembrane p24 traff | protein_coding | 11 | 9 | 12 | 10 | 0.836 |
| 283579 | NR_161323,NR_16 | **C14orf178** | chromosome 14 open re | lncRNA | 1 | 1 | 2 | 2 | 1.080 |
| 283585 | NR_038445 | **LINC01148** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283587 | NR_046094 | **LINC01146** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283592 | NR_027004 | **FAM181A-AS1** | FAM181A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283596 | NR_001459,NR_00 | **SNHG10** | small nucleolar RNA hos | lncRNA | 12 | 13 | 13 | 14 | 1.062 |
| 283598 | NR_161367,NR_16 | **C14orf177** | chromosome 14 putative | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283600 | NM_001350877,NM | **SLC25A47** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283601 | NR_024096 | **LINC00523** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283603 | gene-RPL26P4 | **RPL26P4** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.200 |
| 283617 | NM_001348266,NR | **OR4K3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283624 | NR_038970,NR_03 | **LINC00641** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.899 |
| 283629 | NM_001184739,NM | **TSSK4** | testis specific serine kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283631 | gene-BTF3P2 | **BTF3P2** | BTF3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 283635 | NM_001079519,NM | **FAM177A1** | family with sequence sim | protein_coding | 19 | 18 | 20 | 19 | 0.981 |
| 283638 | NM_001112726,NM | **CEP170B** | centrosomal protein 170I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283643 | NM_001134875,NM | **TEDC1** | tubulin epsilon and delta | protein_coding | 29 | 31 | 30 | 32 | 1.069 |
| 283651 | NR_022014 | **HMGN2P46** | high mobility group nucl | transcribed_pseu | 0 | 0 | 1 | 1 | 1.031 |
| 283652 | NM_205850,XM_01 | **SLC24A5** | solute carrier family 24 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283659 | NM_173814,XM_01 | **PRTG** | protogenin | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 283663 | NR_024433 | **LINC00926** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.832 |
| 283665 | NR_147215 | **LOC283665** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283673 | NR_026949 | **EWSAT1** | Ewing sarcoma associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283677 | NM_001042367,NM | **REC114** | REC114 meiotic recombi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283682 | NR_138083 | **LINC01579** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283683 | NR_040057 | **LOC283683** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283685 | NM_001304388 | **GOLGA6L2** | golgin A6 family like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283687 | NR_028330 | **ST20-AS1** | ST20 antisense RNA 1 | lncRNA | 9 | 9 | 10 | 10 | 0.934 |
| 283688 | NR_033833 | **LINC00927** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283692 | NR_046096 | **CPEB1-AS1** | CPEB1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283693 | NR_036446 | **ACTG1P17** | actin gamma 1 pseudoge | transcribed_pseu | 1 | 0 | 2 | 1 | 0.865 |
| 283694 | NM_001005241 | **OR4N4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283698 | gene-SYNGR2P1 | **SYNGR2P1** | synaptogyrin 2 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283710 | NM_001243538,XM | **LOC283710** | uncharacterized LOC283 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283711 | gene-UBE2CP4 | **UBE2CP4** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 283726 | NM_001008226,NM | **SAXO2** | stabilizer of axonemal mi | protein_coding | 1 | 1 | 2 | 2 | 0.836 |
| 283731 | NR_027073,NR_15 | **LOC283731** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283738 | NR_038229 | **NTRK3-AS1** | NTRK3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283742 | NM_173611 | **FAM98B** | family with sequence sim | protein_coding | 76 | 70 | 77 | 71 | 0.911 |
| 283747 | gene-ELOCP2 | **ELOCP2** | elongin C pseudogene 2 | pseudogene | 3 | 2 | 4 | 3 | 0.838 |
| 283748 | NM_178034,XM_01 | **PLA2G4D** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283755 | NR_036432 | **HERC2P3** | hect domain and RLD 2 | transcribed_pseu | 2 | 3 | 3 | 4 | 1.020 |
| 283761 | NR_027074,NR_02 | **LINC00928** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283767 | NM_001001413,XM | **GOLGA6L1** | golgin A6 family like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283768 | NM_001350919,NM | **GOLGA8G** | golgin A8 family member | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 283777 | NM_182562 | **FAM169B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283796 | NR_024074 | **GOLGA8IP** | golgin A8 family member | transcribed_pseu | 0 | 0 | 1 | 1 | 0.900 |
| 283807 | NM_001367807,NM | **FBXL22** | F-box and leucine rich re | protein_coding | 0 | 1 | 1 | 2 | 1.369 |
| 283820 | NM_001004060,NM | **NOMO2** | NODAL modulator 2 | protein_coding | 78 | 82 | 79 | 83 | 1.039 |
| 283847 | NM_001136505,XM | **TERB1** | telomere repeat binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283848 | NM_001190201,NM | **CES4A** | carboxylesterase 4A | protein_coding | 14 | 12 | 15 | 13 | 0.852 |
| 283849 | NM_178516 | **EXOC3L1** | exocyst complex compor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283854 | NR_135281 | **CASC22** | cancer susceptibility 22 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283856 | NR_027078 | **LOC283856** | uncharacterized LOC283 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283860 | NR_024347 | **LINC00304** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 283867 | NR_027755 | **LINC00922** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283869 | NM_001099456 | **NPW** | neuropeptide W | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283870 | NM_182563 | **BRICD5** | BRICHOS domain contai | protein_coding | 3 | 3 | 4 | 4 | 1.108 |
| 283871 | NM_001042371 | **PGP** | phosphoglycolate phosp | protein_coding | 22 | 24 | 23 | 25 | 1.094 |
| 283875 | NR_033861 | **LINC00514** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283876 | NR_033904 | **LINC00921** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.783 |
| 283887 | NR_135196,NR_13 | **LINC02175** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283888 | NR_037158 | **IL21R-AS1** | IL21R antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.022 |
| 283897 | NM_175900 | **C16orf54** | chromosome 16 open re | protein_coding | 12 | 11 | 13 | 12 | 0.896 |
| 283899 | NM_001304562,NM | **INO80E** | INO80 complex subunit E | protein_coding | 139 | 138 | 140 | 139 | 0.994 |
| 283902 | NR_027756 | **HCCAT5** | hepatocellular carcinoma | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283914 | NR_027079,NR_02 | **LINC01566** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283922 | NR_026950 | **LOC283922** | pyruvate dehydrogenase | transcribed_pseu | 6 | 6 | 7 | 7 | 0.961 |
| 283927 | NM_001105663,NM | **NUDT7** | nudix hydrolase 7 | protein_coding | 1 | 1 | 2 | 2 | 0.841 |
| 283932 | NR_024348 | **FBXL19-AS1** | FBXL19 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 0.919 |
| 283933 | NM_001136509,NM | **ZNF843** | zinc finger protein 843 | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 283948 | NM_001301159,NM | **NHLRC4** | NHL repeat containing 4 | protein_coding | 0 | 0 | 1 | 1 | 1.048 |
| 283951 | NM_001272051 | **C16orf91** | chromosome 16 open re | protein_coding | 40 | 49 | 41 | 50 | 1.210 |
| 283953 | NM_001146336,NM | **TMEM114** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283955 | gene-PKD1P2 | **PKD1P2** | polycystin 1, transient re | pseudogene | 4 | 4 | 5 | 5 | 0.934 |
| 283970 | NR_003610 | **PDXDC2P-NPIPB14P** | nuclear pore complex-int | transcribed_pseu | 5 | 4 | 6 | 5 | 0.810 |
| 283971 | NM_173619,XM_01 | **CLEC18C** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283981 | NR_027231,NR_02 | **LINC00685** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.038 |
| 283982 | NR_027146 | **LINC00469** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283985 | NM_178128,XM_00 | **FADS6** | fatty acid desaturase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283987 | NM_030630,XM_00 | **HID1** | HID1 domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 283989 | NM_207346 | **TSEN54** | tRNA splicing endonucle | protein_coding | 117 | 128 | 118 | 129 | 1.097 |

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|---|---|---|---|---|---|---|---|---|---|
| 283991 | NM_182565 | **UBALD2** | UBA like domain contain | protein_coding | 301 | 294 | 302 | 295 | 0.975 |
| 283994 | NR_135283,NR_13 | **LINC00868** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 283999 | NM_001204210,NM | **TMEM235** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284001 | NM_001316321,NM | **CCDC57** | coiled-coil domain contai | protein_coding | 6 | 4 | 7 | 5 | 0.628 |
| 284004 | NM_001330542,NM | **HEXD** | hexosaminidase D | protein_coding | 15 | 14 | 16 | 15 | 0.979 |
| 284009 | NR_028335 | **LOC284009** | uncharacterized LOC284 | lncRNA | 1 | 1 | 2 | 2 | 0.833 |
| 284013 | NM_001144939,NM | **VMO1** | vitelline membrane outer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284018 | NM_001382359,NM | **C17orf58** | chromosome 17 open rea | protein_coding | 24 | 27 | 25 | 28 | 1.122 |
| 284021 | NM_001085423,NM | **MILR1** | mast cell immunoglobuli | protein_coding | 0 | 0 | 1 | 1 | 0.901 |
| 284023 | NM_001358699,NR | **RNF227** | ring finger protein 227 | protein_coding | 3 | 2 | 4 | 3 | 0.794 |
| 284029 | NR_026951 | **LINC00324** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.008 |
| 284034 | NR_034144,NR_03 | **LINC00670** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284040 | NM_001204477 | **CDRT4** | CMT1A duplicated regior | protein_coding | 9 | 7 | 10 | 8 | 0.867 |
| 284047 | NR_036647 | **CCDC144B** | coiled-coil domain contai | transcribed_pseu | 2 | 1 | 3 | 2 | 0.724 |
| 284058 | NM_001193465,NM | **KANSL1** | KAT8 regulatory NSL cor | protein_coding | 24 | 24 | 25 | 25 | 1.008 |
| 284064 | gene-RPL29P31 | **RPL29P31** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 284067 | NM_001136483,NM | **CFAP97D1** | CFAP97 domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284069 | NM_198475,XM_01 | **FAM171A2** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284071 | NM_001145080,XM | **MEIOC** | meiosis specific with coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284076 | NM_001130918,NM | **TTLL6** | tubulin tyrosine ligase lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284080 | NR_038230 | **PICART1** | p53 inducible cancer ass | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284085 | NR_028334 | **KRT18P55** | keratin 18 pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.924 |
| 284086 | NM_178170 | **NEK8** | NIMA related kinase 8 | protein_coding | 2 | 2 | 3 | 3 | 0.908 |
| 284098 | NM_001346754,NM | **PIGW** | phosphatidylinositol glyc | protein_coding | 81 | 74 | 82 | 75 | 0.919 |
| 284099 | NM_001321399,NM | **C17orf78** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284100 | NR_024178 | **YWHAEP7** | tyrosine 3-monooxygena | transcribed_pseu | 0 | 0 | 1 | 1 | 1.053 |
| 284106 | NM_001136498 | **CISD3** | CDGSH iron sulfur doma | protein_coding | 66 | 68 | 67 | 69 | 1.031 |
| 284110 | NM_178171,XM_00 | **GSDMA** | gasdermin A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284111 | NM_001143838,NM | **SLC13A5** | solute carrier family 13 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284114 | NM_001320444,NM | **TMEM102** | transmembrane protein 1 | protein_coding | 5 | 5 | 6 | 6 | 1.058 |
| 284116 | NR_033415 | **KRT42P** | keratin 42 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 284119 | NM_012232,XM_00 | **CAVIN1** | caveolae associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284123 | NR_028336 | **FAM27E5** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284124 | NR_027084 | **FLJ36000** | uncharacterized FLJ360( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284129 | NM_001166347,NM | **SLC26A11** | solute carrier family 26 m | protein_coding | 10 | 12 | 11 | 13 | 1.225 |
| 284131 | NM_001164637,NM | **ENDOV** | endonuclease V | protein_coding | 5 | 5 | 6 | 6 | 1.113 |
| 284161 | NM_001165993,NM | **GDPD1** | glycerophosphodiester p | protein_coding | 3 | 2 | 4 | 3 | 0.793 |
| 284167 | gene-POLRMTP1 | **POLRMTP1** | RNA polymerase mitoch | pseudogene | 1 | 1 | 2 | 2 | 0.959 |
| 284184 | NM_001086521,NM | **NDUFAF8** | NADH:ubiquinone oxidor | protein_coding | 74 | 85 | 75 | 86 | 1.141 |
| 284185 | NR_038080 | **LINC00482** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 284186 | NR_165247 | **TMEM105** | TMEM105 long non-codi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284191 | NR_148948 | **LOC284191** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284194 | NM_001042685,NM | **LGALS9B** | galectin 9B | protein_coding | 5 | 4 | 6 | 5 | 0.926 |
| 284196 | gene-KRT17P6 | **KRT17P6** | keratin 17 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 284203 | gene-RNASEH1P1 | **RNASEH1P1** | ribonuclease H1 pseudo( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 284207 | NM_001004431,NM | **METRNL** | meteorin like, glial cell di | protein_coding | 126 | 147 | 127 | 148 | 1.170 |
| 284215 | NR_036489 | **DLGAP1-AS5** | DLGAP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284217 | NM_005559 | **LAMA1** | laminin subunit alpha 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284230 | gene-RPL36AP49 | **RPL36AP49** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.131 |
| 284232 | NR_138091 | **ANKRD20A9P** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.996 |
| 284233 | NR_026756 | **CYP4F35P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 284240 | NR_148949 | **LOC284240** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284241 | NR_136643 | **LOC284241** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284252 | NM_001136205,NM | **KCTD1** | potassium channel tetra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284254 | NM_001307955,NM | **DYNAP** | dynactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284257 | NM_001257964 | **BOD1L2** | biorientation of chromos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284260 | NR_046174,NR_04 | **LINC00907** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.940 |
| 284266 | NM_213602 | **SIGLEC15** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284269 | gene-LOC284269 | **LOC284269** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 284273 | NM_001306093,NM | **ZADH2** | zinc binding alcohol deh | protein_coding | 22 | 20 | 23 | 21 | 0.908 |
| 284274 | NM_001037331,NM | **SMIM21** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284276 | NR_015417 | **LINC00908** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284288 | gene-RSL24D1P11 | **RSL24D1P11** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 0.805 |
| 284293 | NM_001123366,XM | **HMSD** | histocompatibility minor s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284294 | NR_033881 | **LINC01924** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284297 | NM_001144950,NM | **SSC5D** | scavenger receptor cyste | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284306 | NM_173631 | **ZNF547** | zinc finger protein 547 | protein_coding | 6 | 6 | 7 | 7 | 1.129 |
| 284307 | NM_001010879,NM | **ZIK1** | zinc finger protein intera | protein_coding | 0 | 0 | 1 | 1 | 1.020 |
| 284309 | NM_001348007,NM | **ZNF776** | zinc finger protein 776 | protein_coding | 8 | 8 | 9 | 9 | 0.994 |
| 284312 | NM_182572,XM_00 | **ZSCAN1** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284323 | NM_001010880,NM | **ZNF780A** | zinc finger protein 780A | protein_coding | 10 | 10 | 11 | 11 | 0.969 |
| 284325 | NM_001353805,NM | **C19orf54** | chromosome 19 open rea | protein_coding | 18 | 19 | 19 | 20 | 1.041 |
| 284338 | NM_199285,XM_00 | **PRR19** | proline rich 19 | protein_coding | 2 | 2 | 3 | 3 | 1.271 |
| 284339 | NM_001366910,NM | **TMEM145** | transmembrane protein 1 | protein_coding | 2 | 3 | 3 | 4 | 1.098 |
| 284340 | NM_198477,NR_13 | **CXCL17** | C-X-C motif chemokine li | protein_coding | 0 | 0 | 1 | 1 | 1.092 |
| 284344 | NR_033888 | **LOC284344** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284346 | NM_174945,XM_00 | **ZNF575** | zinc finger protein 575 | protein_coding | 1 | 1 | 2 | 2 | 1.023 |
| 284348 | NM_001031749,NM | **LYPD5** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284349 | NM_001297752,NM | **ZNF283** | zinc finger protein 283 | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 284352 | NM_019121,XM_00 | **PPP1R37** | protein phosphatase 1 re | protein_coding | 6 | 6 | 7 | 7 | 1.070 |
| 284353 | NM_198478,XM_01 | **NKPD1** | NTPase KAP family P-loo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284355 | NM_198479 | **TPRX1** | tetrapeptide repeat home | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284358 | NM_001130915,NM | **MAMSTR** | MEF2 activating motif an | protein_coding | 0 | 0 | 1 | 1 | 0.823 |
| 284359 | NM_001321864,NM | **IZUMO1** | izumo sperm-egg fusion | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284361 | NM_175063,NM_20 | **EMC10** | ER membrane protein cc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284365 | NR_038359 | **LINC01869** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284366 | NM_012315 | **KLK9** | kallikrein related peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284367 | NR_047529,NR_04 | **SIGLEC17P** | sialic acid binding Ig like | transcribed_pseu | 43 | 46 | 44 | 47 | 1.055 |
| 284369 | NM_001308437,NM | **SIGLECL1** | SIGLEC family like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284370 | NM_001199324,NM | **ZNF615** | zinc finger protein 615 | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 284371 | NM_001136499,NM | **ZNF841** | zinc finger protein 841 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284379 | NR_002938 | **LOC284379** | solute carrier family 7 me | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 284382 | NM_178525 | **ACTL9** | actin like 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284383 | NM_001004699 | **OR2Z1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284385 | NR_122038 | **ZNF561-AS1** | ZNF561 antisense RNA 1 | lncRNA | 6 | 4 | 7 | 5 | 0.836 |
| 284390 | NM_001012753,NM | **ZNF763** | zinc finger protein 763 | protein_coding | 1 | 1 | 2 | 2 | 1.018 |
| 284391 | NM_001136501,NR | **ZNF844** | zinc finger protein 844 | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 284393 | gene-RPL10P16 | **RPL10P16** | ribosomal protein L10 ps | pseudogene | 6 | 10 | 7 | 11 | 1.470 |
| 284395 | NR_040029 | **LOC284395** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 0.931 |
| 284402 | NM_001025591 | **SCGB2B2** | secretoglobin family 2B r | protein_coding | 0 | 1 | 1 | 2 | 1.118 |
| 284403 | NM_001083961,NM | **WDR62** | WD repeat domain 62 | protein_coding | 32 | 31 | 33 | 32 | 0.972 |
| 284406 | NM_001321917,NM | **ZFP82** | ZFP82 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284408 | NR_040027,NR_04 | **ZNF790-AS1** | ZNF790 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284412 | NR_029390 | **LOC284412** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284415 | NM_001288791,NM | **VSTM1** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284417 | NM_001085488,NM | **TMEM150B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284418 | NM_001145402 | **FAM71E2** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284422 | NM_001136503 | **SMIM24** | small integral membrane | protein_coding | 1 | 1 | 2 | 2 | 0.939 |
| 284424 | NR_027148 | **MIR7-3HG** | MIR7-3 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284427 | NM_001321298,NM | **SLC25A41** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 284428 | NM_001136507 | **MBD3L5** | methyl-CpG binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284433 | NM_001004466 | **OR10H5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284434 | NM_001007525,NM | **NWD1** | NACHT and WD repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284439 | NM_001321544,NM | **SLC25A42** | solute carrier family 25 m | protein_coding | 7 | 7 | 8 | 8 | 1.005 |
| 284440 | NR_026956 | **LINC00663** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 284441 | gene-LOC284441 | **LOC284441** | actin related protein 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.058 |
| 284443 | NM_001076678,NM | **ZNF493** | zinc finger protein 493 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284451 | NM_182577,XM_00 | **ODF3L2** | outer dense fiber of sper | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284454 | NR_036515 | **LOC284454** | uncharacterized LOC284 | lncRNA | 3 | 2 | 4 | 3 | 0.804 |
| 284459 | NM_001329761,NM | **ZNF875** | zinc finger protein 875 | protein_coding | 2 | 2 | 3 | 3 | 0.796 |
| 284467 | NM_001004440,NM | **TAFA3** | TAFA chemokine like fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284485 | NM_001144956 | **RIIAD1** | regulatory subunit of typ | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284486 | NM_182578,XM_01 | **THEM5** | thioesterase superfamily | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284498 | NM_001010881,XM | **C1orf167** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284521 | NM_001304535,NM | **OR2L13** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284525 | NM_178527,XM_01 | **SLC9C2** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 284532 | NM_001001966 | **OR14A16** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284541 | NM_001010969,NM | **CYP4A22** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284546 | NM_001136508,XM_ | **C1orf185** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284551 | NR_027085 | **LINC01226** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284561 | XR_001737736 | **LINC02806** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 0.994 |
| 284565 | NM_001170755,NM | **NBPF15** | NBPF member 15 | protein_coding | 1 | 1 | 2 | 2 | 0.895 |
| 284573 | NR_027902 | **LINC00303** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284576 | NR_038425 | **LEMD1-AS1** | LEMD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284577 | NR_148934 | **LEMD1-DT** | LEMD1 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284578 | NR_027086,NR_15 | **MFSD4A-AS1** | MFSD4A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284581 | NR_046097,NR_04 | **LOC284581** | uncharacterized LOC284 | lncRNA | 2 | 2 | 3 | 3 | 0.914 |
| 284593 | NR_027055 | **FAM41C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284600 | XR_002958526 | **LOC284600** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284611 | NM_001010883 | **FAM102B** | family with sequence sim | protein_coding | 44 | 37 | 45 | 38 | 0.838 |
| 284612 | NM_001040709,XM | **SYPL2** | synaptophysin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284613 | NM_001134400,NM | **CYB561D1** | cytochrome b561 family | protein_coding | 9 | 8 | 10 | 9 | 0.945 |
| 284615 | NM_001039888 | **ANKRD34A** | ankyrin repeat domain 3 | protein_coding | 1 | 2 | 2 | 3 | 1.016 |
| 284618 | NR_145424,NR_14 | **RUSC1-AS1** | RUSC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.889 |
| 284620 | gene-LOC284620 | **LOC284620** | claudin 6 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 284632 | NR_027087 | **LINC02800** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284648 | NR_036490 | **LINC01686** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 284649 | NR_040063 | **SMG7-AS1** | SMG7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 284654 | NM_001038633,NM | **RSPO1** | R-spondin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284656 | NM_001099439,NM | **EPHA10** | EPH receptor A10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284661 | NR_027088 | **LINC01777** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284672 | gene-PTGES3P1 | **PTGES3P1** | prostaglandin E synthas | pseudogene | 9 | 10 | 10 | 11 | 1.029 |
| 284677 | NR_147122,NR_14 | **SNHG28** | small nucleolar RNA hos | lncRNA | 0 | 1 | 1 | 2 | 1.209 |
| 284680 | NM_182581,XM_00 | **SPATA46** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284685 | gene-LOC284685 | **LOC284685** | EWS RNA binding protei | pseudogene | 0 | 0 | 1 | 1 | 1.087 |
| 284688 | NR_026957 | **LINC01142** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284695 | NM_001320185,NM | **ZNF326** | zinc finger protein 326 | protein_coding | 23 | 23 | 24 | 24 | 0.977 |
| 284697 | NM_001376131,NM | **BTBD8** | BTB domain containing 8 | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 284716 | NM_173642,XM_00 | **RIMKLA** | ribosomal modification p | protein_coding | 5 | 5 | 6 | 6 | 1.052 |
| 284723 | NM_207348,XM_01 | **SLC25A34** | solute carrier family 25 m | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 284729 | NR_026567 | **ESPNP** | espin pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 284739 | NM_001348090,XM | **C20orf204** | chromosome 20 open rea | protein_coding | 1 | 1 | 2 | 2 | 1.047 |
| 284749 | NR_026958 | **LINC00494** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284751 | NR_034124 | **LINC01270** | long intergenic non-prot | lncRNA | 3 | 2 | 4 | 3 | 0.696 |
| 284756 | NR_126504,NR_16 | **C20orf197** | chromosome 20 putative | lncRNA | 10 | 7 | 11 | 8 | 0.724 |
| 284757 | NR_046099 | **MIR646HG** | MIR646 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.984 |
| 284759 | NM_001122962,NM | **SIRPB2** | signal regulatory protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284764 | gene-FTLP3 | **FTLP3** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 0.958 |
| 284788 | NR_027089,NR_02 | **LOC284788** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284798 | NR_027091,NR_02 | **LOC284798** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284800 | NR_026713 | **FAM182A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284801 | NR_040095 | **MIR663AHG** | MIR663A host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284802 | NR_003579,NR_14 | **FRG1BP** | FSHD region gene 1 fam | transcribed_pseu | 26 | 37 | 27 | 38 | 1.387 |
| 284805 | NM_182584,XM_02 | **C20orf203** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 284821 | gene-RPL13AP7 | **RPL13AP7** | ribosomal protein L13a p | pseudogene | 1 | 1 | 2 | 2 | 0.979 |
| 284825 | NR_126010,NR_12 | **LINC01697** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284827 | NM_181600 | **KRTAP13-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284835 | NR_024100 | **LINC00323** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284836 | NR_152722 | **LINC00319** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284837 | NR_026961 | **AATBC** | apoptosis associated tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284865 | NR_038460 | **LOC284865** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284889 | NR_038911 | **MIF-AS1** | MIF antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.676 |
| 284898 | NM_001318329,NR | **LOC284898** | uncharacterized LOC284 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284900 | NR_026962,NR_02 | **TTC28-AS1** | TTC28 antisense RNA 1 | lncRNA | 25 | 23 | 26 | 24 | 0.925 |
| 284904 | NM_001161368,NM | **SEC14L4** | SEC14 like lipid binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284912 | XR_001755513,XR_ | **LOC284912** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284930 | NR_122046 | **LOC284930** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 284933 | NR_038917 | **LOC284933** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284942 | NR_026981,NR_02 | **RPL23AP82** | ribosomal protein L23a p | transcribed_pseu | 12 | 11 | 13 | 12 | 0.959 |
| 284948 | NM_201594,XM_01 | **SH2D6** | SH2 domain containing 6 | protein_coding | 0 | 0 | 1 | 1 | 1.120 |
| 284950 | NR_038888 | **LOC284950** | uncharacterized LOC284 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 284958 | NM_001350494,XM | **NT5DC4** | 5'-nucleotidase domain c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 284988 | gene-RHOQP3 | **RHOQP3** | ras homolog family mem | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 284992 | NM_001080539,NM | **CCDC150** | coiled-coil domain contai | protein_coding | 10 | 8 | 11 | 9 | 0.859 |
| 284996 | NM_173647,XM_00 | **RNF149** | ring finger protein 149 | protein_coding | 52 | 45 | 53 | 46 | 0.875 |
| 284998 | NR_038231 | **LINC01114** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285000 | NR_038891 | **LOC285000** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285003 | gene-MRPL36P1 | **MRPL36P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.042 |
| 285016 | NM_001002919,XM | **ALKAL2** | ALK and LTK ligand 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285025 | NM_001316745,NM | **CCDC141** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285033 | NR_046322 | **STARD7-AS1** | STARD7 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 0.907 |
| 285043 | NR_122048 | **LINC01936** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285045 | NR_027097,NR_02 | **LINC00486** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285051 | NM_001163561,NM | **STPG4** | sperm-tail PG-rich repea | protein_coding | 0 | 0 | 1 | 1 | 0.900 |
| 285053 | gene-RPL18AP6 | **RPL18AP6** | ribosomal protein L18a p | pseudogene | 3 | 2 | 4 | 3 | 0.748 |
| 285074 | NR_026846 | **ANAPC1P2** | ANAPC1 pseudogene 2 | transcribed_pseu | 12 | 11 | 13 | 12 | 0.924 |
| 285084 | NR_038897 | **LINC01305** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285093 | NM_173821,XM_01 | **RTP5** | receptor transporter prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285095 | NM_001382368,NM | **FAM240C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285097 | NR_149023 | **LOC285097** | uncharacterized FLJ383 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285103 | NR_033903 | **MED15P9** | mediator complex subun | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285116 | NR_077058 | **AHCTF1P1** | AT-hook containing trans | transcribed_pseu | 1 | 1 | 2 | 2 | 0.877 |
| 285126 | NM_001303127,NM | **DNAJC5G** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285141 | NM_001289947,NM | **ERICH2** | glutamate rich 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285148 | NM_001039613,NM | **IAH1** | isoamyl acetate hydrolyz | protein_coding | 17 | 18 | 18 | 19 | 1.007 |
| 285150 | NR_040080 | **FLJ33534** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285154 | NR_027252 | **CYP1B1-AS1** | CYP1B1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285172 | NM_001321618,NM | **FAM126B** | family with sequence sim | protein_coding | 27 | 21 | 28 | 22 | 0.794 |
| 285175 | NM_001371986,NM | **UNC80** | unc-80 homolog, NALCN | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285180 | NM_198483,NR_03 | **RUFY4** | RUN and FYVE domain | protein_coding | 0 | 0 | 1 | 1 | 0.914 |
| 285189 | NR_003506 | **PLGLA** | plasminogen like A (pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285190 | NM_182588,XM_01 | **RGPD4** | RANBP2 like and GRIP | protein_coding | 1 | 1 | 2 | 2 | 0.886 |
| 285191 | NR_149021 | **LOC285191** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 285193 | NM_001033575,NM | **DUSP28** | dual specificity phosphat | protein_coding | 5 | 5 | 6 | 6 | 0.962 |
| 285194 | NR_015391 | **TUSC7** | tumor suppressor candic | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285195 | NM_173653,XM_01 | **SLC9A9** | solute carrier family 9 me | protein_coding | 3 | 2 | 4 | 3 | 0.722 |
| 285203 | NM_001278689,NM | **EOGT** | EGF domain specific O-l | protein_coding | 2 | 3 | 3 | 4 | 1.038 |
| 285205 | NR_015394 | **LINC00636** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285220 | NM_001080448,NM | **EPHA6** | EPH receptor A6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285224 | NR_037890 | **DNAJB8-AS1** | DNAJB8 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285231 | NM_001159927,NM | **FBXW12** | F-box and WD repeat do | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 285232 | gene-LOC285232 | **LOC285232** | phosphoribosyl pyrophos | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285237 | NM_173824,XM_00 | **C3orf38** | chromosome 3 open rea | protein_coding | 42 | 39 | 43 | 40 | 0.939 |
| 285242 | NM_001256613,NM | **HTR3E** | 5-hydroxytryptamine rec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285260 | gene-RPL31P18 | **RPL31P18** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285266 | NR_040100 | **ENTPD3-AS1** | ENTPD3 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.929 |
| 285267 | NM_001145082,NM | **ZNF619** | zinc finger protein 619 | protein_coding | 6 | 7 | 7 | 8 | 1.106 |
| 285268 | NM_001098414,NM | **ZNF621** | zinc finger protein 621 | protein_coding | 16 | 14 | 17 | 15 | 0.886 |
| 285282 | NM_001363964,NM | **RABL3** | RAB, member of RAS on | protein_coding | 15 | 13 | 16 | 14 | 0.861 |
| 285286 | NR_104116 | **LINC00877** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 0.751 |
| 285296 | gene-UNC93B3 | **UNC93B3** | unc-93 homolog B3 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285303 | gene-LOC285303 | **LOC285303** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285311 | NM_001007534 | **C3orf56** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285313 | NM_001178145,NM | **IGSF10** | immunoglobulin superfa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285314 | gene-PABPC1P10 | **PABPC1P10** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 285315 | NM_001308229,NM | **C3orf33** | chromosome 3 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.968 |
| 285326 | NR_034055 | **LINC00692** | long intergenic non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285329 | gene-UBQLN4P1 | **UBQLN4P1** | ubiquilin 4 pseudogene : | pseudogene | 1 | 2 | 2 | 3 | 1.209 |
| 285331 | NM_001012506,NM | **CCDC66** | coiled-coil domain contai | protein_coding | 12 | 10 | 13 | 11 | 0.805 |
| 285335 | NM_001320531,NM | **SLC9C1** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285343 | NM_001029839,NM | **TCAIM** | T cell activation inhibitor, | protein_coding | 13 | 11 | 14 | 12 | 0.847 |
| 285346 | NM_001287349 | **ZNF852** | zinc finger protein 852 | protein_coding | 7 | 6 | 8 | 7 | 0.864 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 285349 | NM_173658 | **ZNF660** | zinc finger protein 660 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285352 | NR_033373 | **KIF9-AS1** | KIF9 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.862 |
| 285359 | NR_002941 | **PDCL3P4** | PDCL3 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285362 | NM_001164674,NM | **SUMF1** | sulfatase modifying factc | protein_coding | 2 | 2 | 3 | 3 | 0.977 |
| 285367 | NM_001142547,NM | **RPUSD3** | RNA pseudouridine synth | protein_coding | 52 | 59 | 53 | 60 | 1.138 |
| 285368 | NM_001318871,NM | **PRRT3** | proline rich transmembra | protein_coding | 0 | 0 | 1 | 1 | 1.055 |
| 285370 | NR_027102,NR_152 | **LINC00606** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285375 | NR_027103 | **LINC00620** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285381 | NM_001047434,NM | **DPH3** | diphthamide biosynthesi | protein_coding | 30 | 28 | 31 | 29 | 0.951 |
| 285382 | NM_001025266 | **C3orf70** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285386 | NM_198485,XM_00 | **TPRG1** | tumor protein p63 regula | protein_coding | 0 | 0 | 1 | 1 | 0.860 |
| 285389 | NR_136179,NR_13 | **LINC02028** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285401 | NR_027104 | **LINC00698** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285407 | NR_073386,NR_07 | **ALG1L9P** | ALG1 like 9, pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 0.881 |
| 285412 | gene-TOX4P1 | **TOX4P1** | TOX high mobility group | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285415 | gene-MRPL42P1 | **MRPL42P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285419 | NR_027105,NR_02 | **LINC01091** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285422 | XR_939280 | **LOC285422** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285423 | NM_001363507,NM | **IQCM** | IQ motif containing M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285429 | NM_001029955 | **DCAF4L1** | DDB1 and CUL4 associa | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 285440 | NM_207352,XM_00 | **CYP4V2** | cytochrome P450 family | protein_coding | 3 | 4 | 4 | 5 | 1.258 |
| 285441 | NR_033900,NR_03 | **F11-AS1** | F11 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285442 | gene-LOC285442 | **LOC285442** | mitochondrial translation | pseudogene | 5 | 4 | 6 | 5 | 0.867 |
| 285453 | gene-LOC285453 | **LOC285453** | TXNDC9 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285456 | NR_026968 | **RPL34-DT** | RPL34 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 1.007 |
| 285463 | NR_104331 | **CTBP1-AS** | CTBP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 285484 | NR_037863 | **LINC02495** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.123 |
| 285489 | NM_001164673,NM | **DOK7** | docking protein 7 | protein_coding | 2 | 2 | 3 | 3 | 0.959 |
| 285492 | NR_040045 | **LINC00955** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285498 | NM_001131034,NM | **RNF212** | ring finger protein 212 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285500 | XR_001741928,XR | **LOC285500** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 0.867 |
| 285501 | NR_028342 | **LINC01098** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285505 | NR_147407,NR_147 | **FAM198B-AS1** | FAM198B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285512 | NR_002806 | **FAM13A-AS1** | FAM13A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285513 | NM_198281,XM_00 | **GPRIN3** | GPRIN family member 3 | protein_coding | 9 | 7 | 10 | 8 | 0.800 |
| 285521 | NM_001297732,NM | **COX18** | cytochrome c oxidase as | protein_coding | 12 | 14 | 13 | 15 | 1.180 |
| 285525 | NM_182592,XM_01 | **YIPF7** | Yip1 domain family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285527 | NM_015030,XM_00 | **FRYL** | FRY like transcription co | protein_coding | 35 | 27 | 36 | 28 | 0.769 |
| 285533 | NM_173662,XM_00 | **RNF175** | ring finger protein 175 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285540 | NR_037934 | **SEPSECS-AS1** | SEPSECS antisense RN | lncRNA | 1 | 1 | 2 | 2 | 1.140 |
| 285547 | NR_034054 | **LINC01097** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285548 | NR_015450 | **LINC01096** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285550 | NM_001145191,XM | **FAM200B** | family with sequence sim | protein_coding | 8 | 8 | 9 | 9 | 0.989 |
| 285555 | NM_174952,XM_01 | **STPG2** | sperm tail PG-rich repea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285556 | NM_001354435,XM | **C4orf54** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 285577 | NR_033898 | **LINC01019** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285588 | NM_001171183 | **EFCAB9** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 285590 | NM_001017995,NM | **SH3PXD2B** | SH3 and PX domains 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285591 | gene-LOC285591 | **LOC285591** | inorganic pyrophosphata | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 285593 | NR_027108,NR_02 | **LOC285593** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285596 | NM_173663,NR_14 | **FAM153A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285598 | NM_001317948,NM | **ARL10** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 285600 | NM_001145678,NM | **KIAA0825** | KIAA0825 | protein_coding | 1 | 0 | 2 | 1 | 0.720 |
| 285601 | NM_199243 | **GPR150** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285605 | NM_001308081,NM | **DTWD2** | DTW domain containing | protein_coding | 2 | 1 | 3 | 2 | 0.892 |
| 285613 | NM_001130029,NM | **RELL2** | RELT like 2 | protein_coding | 4 | 4 | 5 | 5 | 0.862 |
| 285622 | NR_003719 | **NBPF22P** | NBPF member 22, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285626 | NR_037889 | **LOC285626** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285627 | NR_027110 | **LINC01845** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285629 | NR_027111,NR_151 | **LINC02159** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285634 | gene-INTS6P1 | **INTS6P1** | integrator complex subur | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 285636 | NM_175921,XM_00 | **C5orf51** | chromosome 5 open rea | protein_coding | 27 | 21 | 28 | 22 | 0.805 |
| 285638 | NR_149040 | **LOC285638** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.065 |
| 285641 | NM_001145017,NM | **SLC36A3** | solute carrier family 36 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285643 | NM_001099293 | **KIF4B** | kinesin family member 4l | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 285647 | gene-SUDS3P1 | **SUDS3P1** | SDS3 homolog, SIN3A c | pseudogene | 0 | 0 | 1 | 1 | 1.420 |
| 285659 | NM_206880 | **OR2V2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285668 | NR_126523,NR_12 | **C5orf64** | chromosome 5 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285671 | NM_001113561,NM | **RNF180** | ring finger protein 180 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285672 | NM_173829,XM_01 | **SREK1IP1** | SREK1 interacting protei | protein_coding | 11 | 10 | 12 | 11 | 0.871 |
| 285676 | NM_001178089,NM | **ZNF454** | zinc finger protein 454 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285679 | NM_001142306,NM | **C5orf60** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285692 | NR_027112 | **LINC02112** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285696 | NR_027253 | **BASP1-AS1** | BASP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285704 | NM_001012761,NM | **RGMB** | repulsive guidance mole | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285706 | gene-CRLF3P2 | **CRLF3P2** | CRLF3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285708 | NR_103753,NR_10 | **LINC00491** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285735 | NR_026969 | **LINC00326** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285737 | gene-ACKR4P1 | **ACKR4P1** | ACKR4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285740 | NR_027113,NR_02 | **PHACTR2-AS1** | PHACTR2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285741 | gene-TPT1P4 | **TPT1P4** | tumor protein, translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285753 | NM_001083535,NM | **CEP57L1** | centrosomal protein 57 li | protein_coding | 7 | 5 | 8 | 6 | 0.733 |
| 285755 | NM_001111298,NM | **PPIL6** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 0.877 |
| 285758 | NR_038863 | **MROCKI** | MARCKS cis regulating l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285759 | NR_027060 | **LINC02880** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285761 | NM_001366458,NM | **DCBLD1** | discoidin, CUB and LCCl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285762 | NR_046100 | **LOC285762** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285766 | NR_126020 | **LOC285766** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285768 | NR_027115,NR_02 | **LINC01622** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285780 | NR_026970 | **LY86-AS1** | LY86 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285782 | NM_001170692,NM | **CAGE1** | cancer antigen 1 | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 285785 | gene-RPL39P3 | **RPL39P3** | ribosomal protein L39 ps | pseudogene | 49 | 56 | 50 | 57 | 1.146 |
| 285796 | NR_028390 | **PACRG-AS1** | PACRG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285800 | NM_175922 | **PRR18** | proline rich 18 | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 285804 | NR_126021 | **LOC285804** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285819 | NR_038992 | **LOC285819** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285829 | gene-SUMO2P1 | **SUMO2P1** | SUMO2 pseudogene 1 | pseudogene | 2 | 3 | 3 | 4 | 1.143 |
| 285830 | NR_026972,NR_02 | **HLA-F-AS1** | HLA-F antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.948 |
| 285834 | NR_003948,NR_14 | **HCG22** | HLA complex group 22 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285847 | NR_027117 | **LOC285847** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285848 | NM_001145716,NM | **PNPLA1** | patatin like phospholipas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285849 | gene-COX6A1P2 | **COX6A1P2** | cytochrome c oxidase su | pseudogene | 9 | 9 | 10 | 10 | 1.077 |
| 285852 | NM_198153,XR_00 | **TREML4** | triggering receptor expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285855 | NM_001366481,NM | **RPL7L1** | ribosomal protein L7 like | protein_coding | 195 | 180 | 196 | 181 | 0.927 |
| 285857 | NR_149142 | **LINC02537** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285872 | gene-THAP5P1 | **THAP5P1** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 285877 | NM_182595 | **POM121L12** | POM121 transmembrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285878 | NR_038994 | **VSTM2A-OT1** | VSTM2A overlapping tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285888 | NM_001103176,NM | **CNPY1** | canopy FGF signaling re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285889 | NR_038232 | **LOC285889** | uncharacterized LOC285 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285893 | gene-ARAFP3 | **ARAFP3** | ARAF pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 285900 | gene-RPL6P20 | **RPL6P20** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 285905 | NR_146905,NR_14 | **INTS4P1** | integrator complex subur | transcribed_pseu | 1 | 0 | 2 | 1 | 0.828 |
| 285908 | NR_026873 | **LINC00174** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.041 |
| 285941 | NR_161201,NR_16 | **LINC02860** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285943 | NR_122069 | **HOXA-AS2** | HOXA cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 1.197 |
| 285954 | NR_027118,NR_02 | **INHBA-AS1** | INHBA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285955 | NM_001378423,NM | **SPDYE1** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 285958 | NR_003697,NR_15 | **SNHG15** | small nucleolar RNA hos | lncRNA | 80 | 94 | 81 | 95 | 1.172 |
| 285961 | NR_027269,NR_14 | **SEPTIN7P9** | septin 7 pseudogene 9 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 285962 | NR_015392 | **WEE2-AS1** | WEE2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285965 | NR_033897 | **EPHA1-AS1** | EPHA1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 285966 | NM_001130026,NM | **TCAF2** | TRPM8 channel associat | protein_coding | 0 | 0 | 1 | 1 | 1.094 |
| 285971 | NM_173680 | **ZNF775** | zinc finger protein 775 | protein_coding | 4 | 4 | 5 | 5 | 1.126 |
| 285972 | NR_034033 | **LINC00996** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.706 |
| 285973 | NM_001317056,NR | **ATG9B** | autophagy related 9B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 285987 | NR_015448 | **DLX6-AS1** | DLX6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 285989 | NM_001013258,NM | **ZNF789** | zinc finger protein 789 | protein_coding | 15 | 16 | 16 | 17 | 1.070 |
| 286002 | NR_028137 | **SLC26A4-AS1** | SLC26A4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286006 | NM_001134468,NM | **LSMEM1** | leucine rich single-pass r | protein_coding | 1 | 1 | 2 | 2 | 1.079 |
| 286016 | NR_002187 | **TPI1P2** | triosephosphate isomera | transcribed_pseu | 3 | 3 | 4 | 4 | 0.999 |
| 286023 | NR_046323 | **FLJ40288** | uncharacterized FLJ402 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286042 | NR_024361,NR_02 | **FAM86B3P** | family with sequence sir | transcribed_pseu | 0 | 0 | 1 | 1 | 1.024 |
| 286046 | NM_173683,NR_13 | **XKR6** | XK related 6 | protein_coding | 0 | 0 | 1 | 1 | 1.128 |
| 286053 | NM_001349485,NM | **NSMCE2** | NSE2 (MMS21) homolog | protein_coding | 24 | 23 | 25 | 24 | 0.960 |
| 286059 | NR_038873 | **LOC286059** | TNF receptor superfamil | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 286065 | gene-MAPK6P4 | **MAPK6P4** | mitogen-activated proteir | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 286075 | NM_001100598,NM | **ZNF707** | zinc finger protein 707 | protein_coding | 8 | 8 | 9 | 9 | 0.950 |
| 286076 | NR_015445 | **LINC02878** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 286077 | NM_198488 | **FAM83H** | family with sequence sir | protein_coding | 1 | 1 | 2 | 2 | 0.996 |
| 286083 | NR_111948 | **LOC286083** | uncharacterized LOC286 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286094 | NR_026706,NR_12( | **LINC01591** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286097 | NM_001349810,NM | **MICU3** | mitochondrial calcium up | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286101 | NR_023392 | **ZNF252P** | zinc finger protein 252, p | transcribed_pseu | 8 | 7 | 9 | 8 | 0.879 |
| 286102 | NR_002807 | **TMED10P1** | transmembrane p24 traff | transcribed_pseu | 0 | 0 | 1 | 1 | 1.081 |
| 286103 | NR_026974 | **ZNF252P-AS1** | ZNF252P antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.925 |
| 286114 | NR_033894 | **LINC02153** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286122 | NR_126398,NR_12( | **C8orf31** | chromosome 8 open reac | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286128 | NM_001271156,NM | **ZFP41** | ZFP41 zinc finger proteir | protein_coding | 3 | 3 | 4 | 4 | 0.983 |
| 286133 | NM_173833 | **SCARA5** | scavenger receptor class | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286135 | NR_024473 | **LINC02209** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286140 | NR_003129 | **RNF5P1** | ring finger protein 5 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 0.877 |
| 286144 | NM_001171795,NM | **TRIQK** | triple QxxK/R motif conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286148 | NM_181787,XM_00! | **DPY19L4** | dpy-19 like 4 | protein_coding | 10 | 8 | 11 | 9 | 0.835 |
| 286150 | gene-RPS2P33 | **RPS2P33** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286151 | NM_001029860,NR_ | **FBXO43** | F-box protein 43 | protein_coding | 1 | 1 | 2 | 2 | 0.838 |
| 286156 | gene-MAPK6P5 | **MAPK6P5** | mitogen-activated proteir | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 286157 | gene-PCBP2P2 | **PCBP2P2** | poly(rC) binding protein : | pseudogene | 0 | 0 | 1 | 1 | 0.922 |
| 286177 | NR_038874 | **LOC286177** | uncharacterized LOC286 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286178 | NR_134276 | **LOC286178** | uncharacterized LOC286 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286183 | NM_001304533,NR_ | **NKAIN3** | sodium/potassium transp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286184 | NR_038875 | **LINC01289** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286186 | NR_033893 | **LINC01299** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286187 | NM_001013626,NM | **PPP1R42** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286189 | NR_038877 | **C8orf34-AS1** | C8orf34 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286190 | NR_038881 | **LACTB2-AS1** | LACTB2 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286204 | NM_173689,NR_10 | **CRB2** | crumbs cell polarity com | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286205 | NM_001144877,NM | **SCAI** | suppressor of cancer cel | protein_coding | 4 | 3 | 5 | 4 | 0.812 |
| 286207 | NM_001012502,NR_ | **CFAP157** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 286223 | NM_001001938,NM | **C9orf47** | chromosome 9 open reac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286234 | NM_178828 | **SPATA31E1** | SPATA31 subfamily E m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286238 | XR_428525,XR_929 | **LINC02843** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286239 | gene-ME2P1 | **ME2P1** | malic enzyme 2 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286256 | NM_178536,XM_00( | **LCN12** | lipocalin 12 | protein_coding | 0 | 0 | 1 | 1 | 0.797 |
| 286257 | NM_001329678,NM | **PAXX** | PAXX non-homologous e | protein_coding | 48 | 45 | 49 | 46 | 0.947 |
| 286262 | NM_001128228 | **TPRN** | taperin | protein_coding | 13 | 15 | 14 | 16 | 1.147 |
| 286297 | NR_046175 | **LOC286297** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 286310 | gene-LCN1P1 | **LCN1P1** | lipocalin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286319 | NM_001004125 | **TUSC1** | tumor suppressor candic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286333 | NR_024366 | **FAM225A** | family with sequence sir | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286336 | NM_033387,XM_01: | **FAM78A** | family with sequence sir | protein_coding | 42 | 40 | 43 | 41 | 0.972 |
| 286343 | NM_203403,XM_00! | **LURAP1L** | leucine rich adaptor prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286348 | gene-RPL7P33 | **RPL7P33** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286359 | NR_026847 | **LOC286359** | uncharacterized LOC286 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286362 | NM_001001956 | **OR13C9** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286365 | NM_001004484 | **OR13D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286370 | NR_038882 | **MIR4290HG** | MIR4290 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286380 | NM_199135 | **FOXD4L3** | forkhead box D4 like 3 | protein_coding | 0 | 1 | 1 | 2 | 1.355 |
| 286410 | NM_001010986,NM | **ATP11C** | ATPase phospholipid tra | protein_coding | 12 | 11 | 13 | 12 | 0.908 |
| 286411 | NR_028344,NR_02! | **LINC00632** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286423 | gene-MRRFP1 | **MRRFP1** | mitochondrial ribosome r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286430 | NM_001319967 | **NLRP2B** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286436 | NM_001164416,NM | **H2BW2** | H2B.W histone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286437 | NR_039980 | **LOC286437** | uncharacterized LOC286 | lncRNA | 2 | 2 | 3 | 3 | 0.982 |
| 286442 | NR_038968 | **LINC01281** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 286444 | gene-RPS2P55 | **RPS2P55** | ribosomal protein S2 pse | pseudogene | 6 | 9 | 7 | 10 | 1.392 |
| 286451 | NM_001195214,NM | **YIPF6** | Yip1 domain family mem | protein_coding | 21 | 19 | 22 | 20 | 0.918 |
| 286453 | gene-LOC286453 | **LOC286453** | chondroitin sulfate N-ace | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286456 | gene-LOC286456 | **LOC286456** | NGFI-A binding protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286464 | NM_001304548,NM | **CFAP47** | cilia and flagella associat | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 286467 | NR_026975,NR_15: | **FIRRE** | firre intergenic repeating | lncRNA | 0 | 0 | 1 | 1 | 0.854 |
| 286472 | gene-RAC1P4 | **RAC1P4** | Rac family small GTPase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286480 | NR_110506 | **UBE2E4P** | ubiquitin conjugating en: | transcribed_pseu | 0 | 0 | 1 | 1 | 0.953 |
| 286494 | gene-BRAFP1 | **BRAFP1** | BRAF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286495 | NR_030737 | **TTC3P1** | tetratricopeptide repeat c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.039 |
| 286499 | NM_001171109,NM | **FAM133A** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 286512 | gene-EIF4A2P4 | **EIF4A2P4** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.965 |
| 286514 | NM_173699 | **MAGEB18** | MAGE family member B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286527 | NM_001350211,NM | **TMSB15B** | thymosin beta 15B | protein_coding | 4 | 4 | 5 | 5 | 1.004 |
| 286530 | NM_178129,NM_17 | **P2RY8** | P2Y receptor family mem | protein_coding | 3 | 3 | 4 | 4 | 0.964 |
| 286544 | gene-MXRA5Y | **MXRA5Y** | matrix remodeling associ | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286554 | NR_002923,NR_03: | **BCORP1** | BCL6 corepressor pseud | transcribed_pseu | 2 | 2 | 3 | 3 | 0.990 |
| 286556 | gene-CDY3P | **CDY3P** | chromodomain Y-linked : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286557 | NR_001547 | **RBMY1A3P** | RNA binding motif protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 286573 | gene-TPTE2P4 | **TPTE2P4** | transmembrane phosphc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 286676 | NM_001199799,NM | **ILDR1** | immunoglobulin like dom | protein_coding | 0 | 0 | 1 | 1 | 1.033 |
| 286749 | NM_001198593,NM | **STON1-GTF2A1L** | STON1-GTF2A1L readth | protein_coding | 3 | 3 | 4 | 4 | 0.810 |
| 286753 | NM_172367 | **TRARG1** | trafficking regulator of GI | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 286754 | gene-LEFTY3 | **LEFTY3** | left-right determination fa | pseudogene | 0 | 0 | 1 | 1 | 0.928 |
| 286826 | NM_001270409,NM | **LIN9** | lin-9 DREAM MuvB core | protein_coding | 16 | 15 | 17 | 16 | 0.904 |
| 286827 | NM_173084 | **TRIM59** | tripartite motif containing | protein_coding | 45 | 45 | 46 | 46 | 1.006 |
| 286828 | NR_003720 | **CSN1S2AP** | casein alpha s2 like A, p: | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 286887 | NM_173086 | **KRT6C** | keratin 6C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 286967 | NR_027402 | **FAM223B** | family with sequence sir | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 287015 | NM_152616,XM_01: | **TRIM42** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317648 | NR_015453 | **NOP14-AS1** | NOP14 antisense RNA 1 | lncRNA | 3 | 4 | 4 | 5 | 1.111 |
| 317649 | NM_001134649,NM | **EIF4E3** | eukaryotic translation init | protein_coding | 5 | 5 | 6 | 6 | 0.922 |
| 317662 | NM_173348,XM_00! | **FAM149B1** | family with sequence sir | protein_coding | 7 | 8 | 8 | 9 | 1.051 |
| 317671 | NM_001131065,NM | **RFESD** | Rieske Fe-S domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317684 | gene-MAPK6P3 | **MAPK6P3** | mitogen-activated proteir | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 317686 | gene-MAPK6P1 | **MAPK6P1** | mitogen-activated proteir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317687 | gene-BANF1P1 | **BANF1P1** | BANF1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317701 | NM_173856 | **VN1R2** | vomeronasal 1 receptor 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317702 | NM_174980 | **VN1R3** | vomeronasal 1 receptor 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317703 | NM_173857,XM_01: | **VN1R4** | vomeronasal 1 receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317705 | NR_160309 | **VN1R5** | vomeronasal 1 receptor 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 317716 | NR_026760 | **BPIFA4P** | BPI fold containing famil | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 317719 | NM_001329595,NM | **KLHL10** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317726 | gene-HMGN2P2 | **HMGN2P2** | high mobility group nucl | pseudogene | 1 | 1 | 2 | 2 | 0.998 |
| 317727 | gene-LOC317727 | **LOC317727** | ataxin 2 like pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317729 | gene-BLZF2P | **BLZF2P** | basic leucine zipper nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317749 | NM_001193635,NM | **DHRS4L2** | dehydrogenase/reductas | protein_coding | 6 | 5 | 7 | 6 | 0.825 |
| 317751 | NR_004382 | **MESTIT1** | MEST intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 317753 | gene-PSMD12P1 | **PSMD12P1** | PSMD12 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317754 | NM_174981,XM_00( | **POTED** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317760 | NR_037933 | **ADAM20P1** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 0.937 |
| 317761 | NM_174978,XM_01: | **C14orf39** | chromosome 14 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317762 | NM_001144995,XM | **CCDC85C** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.992 |
| 317767 | gene-SCOCP1 | **SCOCP1** | short coiled-coil protein p | pseudogene | 0 | 0 | 1 | 1 | 1.133 |
| 317772 | NM_175065 | **H2AC21** | H2A clustered histone 21 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 317774 | gene-SEPTIN7P1 | **SEPTIN7P1** | septin 7 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 317775 | gene-CHORDC2P | **CHORDC2P** | cysteine and histidine ric | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 317780 | gene-CKS1BP1 | **CKS1BP1** | CDC28 protein kinase re | pseudogene | 3 | 3 | 4 | 4 | 1.054 |
| 317781 | NM_175066,XM_01 | **DDX51** | DEAD-box helicase 51 | protein_coding | 16 | 18 | 17 | 19 | 1.085 |
| 317784 | gene-COILP1 | **COILP1** | coilin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319085 | NR_002808 | **ITPK1-AS1** | ITPK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 319087 | gene-COX5AP2 | **COX5AP2** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319089 | NM_001310135,NM | **TTC6** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 319093 | gene-RHOQP1 | **RHOQP1** | ras homolog family mem | pseudogene | 4 | 2 | 5 | 3 | 0.706 |
| 319099 | gene-DDX18P1 | **DDX18P1** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319100 | NM_175067 | **TAAR6** | trace amine associated r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 319101 | NM_175068,XM_01 | **KRT73** | keratin 73 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 319103 | NR_002916 | **SNORD8** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.791 |
| 319111 | gene-DNAJC8P1 | **DNAJC8P1** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.191 |
| 319112 | gene-EEF1A1P2 | **EEF1A1P2** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319114 | gene-ENSAP2 | **ENSAP2** | endosulfine alpha pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319115 | gene-EIF2S2P1 | **EIF2S2P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319117 | gene-EIF3LP1 | **EIF3LP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 319118 | gene-EIF4BP1 | **EIF4BP1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319119 | gene-ATP5MC2P2 | **ATP5MC2P2** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319120 | gene-YWHAZP1 | **YWHAZP1** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319122 | gene-UNGP3 | **UNGP3** | uracil-DNA glycosylase p | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 319123 | gene-ZFP64P1 | **ZFP64P1** | ZFP64 zinc finger protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319127 | gene-NARS1P1 | **NARS1P1** | asparaginyl-tRNA synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319128 | gene-PPIAP6 | **PPIAP6** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 319129 | gene-RPSAP5 | **RPSAP5** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 319130 | gene-HMGB1P14 | **HMGB1P14** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.027 |
| 319131 | gene-HMGN1P1 | **HMGN1P1** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.824 |
| 319132 | gene-HMGN2P1 | **HMGN2P1** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 319134 | gene-HNRNPUP1 | **HNRNPUP1** | heterogeneous nuclear r | pseudogene | 1 | 0 | 2 | 1 | 0.857 |
| 319135 | gene-RPL10AP1 | **RPL10AP1** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319137 | gene-ATP5MC1P2 | **ATP5MC1P2** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319138 | gene-BNIP3P1 | **BNIP3P1** | BCL2 interacting protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319139 | NR_001276 | **SNORD56B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 319140 | gene-GCATP1 | **GCATP1** | glycine C-acetyltransfera | pseudogene | 1 | 1 | 2 | 2 | 1.142 |
| 319143 | gene-RPL21P10 | **RPL21P10** | ribosomal protein L21 ps | pseudogene | 1 | 0 | 2 | 1 | 0.702 |
| 319144 | gene-RPL21P13 | **RPL21P13** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 319145 | gene-RPL21P8 | **RPL21P8** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326105 | gene-UBE2CP1 | **UBE2CP1** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326107 | gene-STK16P1 | **STK16P1** | serine/threonine kinase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326269 | gene-SRMP2 | **SRMP2** | SRM pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326272 | gene-SNRPGP1 | **SNRPGP1** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326275 | gene-RPL12P7 | **RPL12P7** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.890 |
| 326276 | gene-SF3B4P1 | **SF3B4P1** | splicing factor 3b, subun | pseudogene | 0 | 0 | 1 | 1 | 1.067 |
| 326277 | gene-SETP2 | **SETP2** | SET pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326278 | gene-RPL13AP2 | **RPL13AP2** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326279 | gene-RPL15P2 | **RPL15P2** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 326288 | gene-RPL17P4 | **RPL17P4** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326289 | gene-RPL18AP1 | **RPL18AP1** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.080 |
| 326292 | gene-RPL22P2 | **RPL22P2** | ribosomal protein L22 ps | pseudogene | 0 | 1 | 1 | 2 | 1.682 |
| 326293 | gene-RPL23AP10 | **RPL23AP10** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326294 | gene-RPL23AP11 | **RPL23AP11** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326296 | gene-HSBP1P1 | **HSBP1P1** | heat shock factor binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326297 | gene-RPL26P2 | **RPL26P2** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.191 |
| 326299 | gene-RPL27P1 | **RPL27P1** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326300 | gene-HSPE1P2 | **HSPE1P2** | heat shock protein family | pseudogene | 0 | 1 | 1 | 2 | 1.297 |
| 326302 | gene-NEK2P1 | **NEK2P1** | NEK2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326303 | gene-RPL36P3 | **RPL36P3** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326305 | gene-MOCS3P1 | **MOCS3P1** | molybdenum cofactor sy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326307 | gene-RPL3P4 | **RPL3P4** | ribosomal protein L3 pse | pseudogene | 10 | 12 | 11 | 13 | 1.147 |
| 326308 | gene-RPL41P4 | **RPL41P4** | ribosomal protein L41 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326309 | gene-RPL7AP5 | **RPL7AP5** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326310 | gene-RPL7AP6 | **RPL7AP6** | ribosomal protein L7a ps | pseudogene | 26 | 30 | 27 | 31 | 1.155 |
| 326317 | gene-RPS15AP3 | **RPS15AP3** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326320 | gene-RPS18P2 | **RPS18P2** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 0.896 |
| 326321 | gene-RPS24P2 | **RPS24P2** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 326322 | gene-RPS24P3 | **RPS24P3** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326325 | gene-RPS2P2 | **RPS2P2** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326326 | gene-RPS2P3 | **RPS2P3** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326340 | NM_175619,XR_002 | **ZAR1** | zygote arrest 1 | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 326341 | gene-SSXP3 | **SSXP3** | SSX family pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326342 | NR_024075 | **ADGRE4P** | adhesion G protein-coup | transcribed_pseu | 0 | 0 | 1 | 1 | 1.006 |
| 326343 | NR_003658,NR_027 | **MT1DP** | metallothionein 1D, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 326591 | gene-MORF4L1P1 | **MORF4L1P1** | mortality factor 4 like 1 p | pseudogene | 1 | 1 | 2 | 2 | 0.866 |
| 326593 | gene-MORF4L1P3 | **MORF4L1P3** | mortality factor 4 like 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326594 | gene-MORF4L1P2 | **MORF4L1P2** | mortality factor 4 like 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326596 | gene-MAD2L1P1 | **MAD2L1P1** | mitotic arrest deficient 2 l | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 326605 | gene-NCOA4P1 | **NCOA4P1** | nuclear receptor coactiva | pseudogene | 0 | 0 | 1 | 1 | 0.761 |
| 326606 | gene-NDUFB8P1 | **NDUFB8P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326607 | gene-NMNAT1P1 | **NMNAT1P1** | NMNAT1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326613 | gene-NUTF2P2 | **NUTF2P2** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.117 |
| 326614 | gene-PEBP1P1 | **PEBP1P1** | phosphatidylethanolamir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326615 | gene-MED15P1 | **MED15P1** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326616 | gene-PDLIM1P1 | **PDLIM1P1** | PDZ and LIM domain 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 326624 | NM_001006638,NM | **RAB37** | RAB37, member RAS on | protein_coding | 1 | 1 | 2 | 2 | 0.905 |
| 326625 | NM_052845,NR_03 | **MMAB** | metabolism of cobalamin | protein_coding | 10 | 12 | 11 | 13 | 1.135 |
| 326627 | gene-RANBP20P | **RANBP20P** | RAN binding protein 20 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 327657 | NM_001042518,NM | **SERPINA9** | serpin family A member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 327659 | gene-PUDPP2 | **PUDPP2** | pseudouridine 5'-phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 333926 | NM_005167 | **PPM1J** | protein phosphatase, Mg | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 333929 | NM_178310 | **SNAI3** | snail family transcription | protein_coding | 0 | 0 | 1 | 1 | 0.948 |
| 333932 | NM_001005464 | **H3C15** | H3 clustered histone 15 | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 337867 | NM_001144072,NM | **UBAC2** | UBA domain containing 2 | protein_coding | 73 | 76 | 74 | 77 | 1.041 |
| 337872 | gene-H2BU2P | **H2BU2P** | H2B.U histone 2, pseudo | pseudogene | 4 | 3 | 5 | 4 | 0.878 |
| 337873 | NR_036461 | **H2BC20P** | H2B clustered histone 2( | transcribed_pseu | 4 | 4 | 5 | 5 | 1.015 |
| 337874 | gene-H2BC19P | **H2BC19P** | H2B clustered histone 1( | pseudogene | 6 | 4 | 7 | 5 | 0.754 |
| 337875 | NR_027337,NR_16( | **H2BP1** | H2B histone pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 337876 | NM_175856,XM_00( | **CHSY3** | chondroitin sulfate synth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337878 | NM_181606 | **KRTAP7-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337879 | NM_175857 | **KRTAP8-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337880 | NM_175858 | **KRTAP11-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337882 | NM_181607 | **KRTAP19-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337959 | NM_181621 | **KRTAP13-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337960 | NM_181622 | **KRTAP13-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337963 | NM_181624 | **KRTAP23-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337966 | NM_181602 | **KRTAP6-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337967 | NM_181604 | **KRTAP6-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337968 | NM_181605 | **KRTAP6-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337969 | NM_181608 | **KRTAP19-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337970 | NM_181609 | **KRTAP19-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337971 | NM_181610 | **KRTAP19-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337972 | NM_181611 | **KRTAP19-5** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337973 | NM_181612 | **KRTAP19-6** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337974 | NM_181614 | **KRTAP19-7** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337975 | NM_181615 | **KRTAP20-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337976 | NM_181616 | **KRTAP20-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337977 | NM_181619 | **KRTAP21-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337978 | NM_181617 | **KRTAP21-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337979 | NM_181620 | **KRTAP22-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 337985 | NM_001128077 | **KRTAP20-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338002 | NR_126006 | **LINC00524** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338004 | NR_033375 | **LINC00226** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338005 | NR_027457 | **LINC00221** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338017 | gene-KRT8P1 | **KRT8P1** | keratin 8 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338069 | NR_002329 | **ST7-OT4** | ST7 overlapping transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338091 | gene-PSMD10P3 | **PSMD10P3** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338094 | NM_176782,XM_00( | **FAM151A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338095 | gene-PSME2P3 | **PSME2P3** | proteasome activator sut | pseudogene | 0 | 0 | 1 | 1 | 1.028 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 338096 | gene-PSME2P4 | **PSME2P4** | proteasome activator sut | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338097 | gene-PSME2P5 | **PSME2P5** | proteasome activator sut | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338098 | gene-PSME2P6 | **PSME2P6** | proteasome activator sut | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338099 | gene-PSME2P2 | **PSME2P2** | proteasome activator sut | pseudogene | 0 | 0 | 1 | 1 | 1.060 |
| 338321 | NM_176820,XM_01 | **NLRP9** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338322 | NM_176821,XM_01 | **NLRP10** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338323 | NM_176822,XM_01 | **NLRP14** | NLR family pyrin domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338324 | NM_176823 | **S100A7A** | S100 calcium binding pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338328 | NM_001301772,NM | **GPIHBP1** | glycosylphosphatidylinos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338339 | NM_080387,XM_01 | **CLEC4D** | C-type lectin domain fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338376 | NM_176891 | **IFNE** | interferon epsilon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338382 | NM_001164522,NM | **RAB7B** | RAB7B, member RAS or | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338389 | gene-MRPS24P1 | **MRPS24P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.234 |
| 338391 | NR_160913,NR_16 | **H2BP2** | H2B histone pseudogen | transcribed_pseu | 0 | 0 | 1 | 1 | 1.008 |
| 338398 | NM_177437 | **TAS2R60** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338412 | gene-TAS2R64P | **TAS2R64P** | taste 2 receptor member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338413 | gene-TAS2R63P | **TAS2R63P** | taste 2 receptor member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338427 | NR_001292 | **SNORD108** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.001 |
| 338428 | NR_001295 | **SNORD109A** | small nucleolar RNA, C/I | snoRNA | 5 | 2 | 6 | 3 | 0.585 |
| 338429 | NR_001289 | **SNORD109B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338433 | NR_001291 | **SNORD115-1** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338436 | NR_103545 | **BLACE** | B cell acute lymphoblast | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338440 | NM_001012302,NM | **ANO9** | anoctamin 9 | protein_coding | 0 | 0 | 1 | 1 | 0.980 |
| 338442 | NM_177551 | **HCAR2** | hydroxycarboxylic acid re | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 338448 | gene-GTF2IP2 | **GTF2IP2** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338470 | gene-MESTP1 | **MESTP1** | mesoderm specific trans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338557 | NM_001195755,NM | **FFAR4** | free fatty acid receptor 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338567 | NM_181840 | **KCNK18** | potassium two pore dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338579 | NR_033891 | **ANKRD30BP3** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 338588 | NR_015425 | **LINC00705** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338591 | gene-CHCHD3P1 | **CHCHD3P1** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338596 | NM_001004470,NM | **ST8SIA6** | ST8 alpha-N-acetyl-neur | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338599 | NM_001003892,XM | **DUPD1** | dual specificity phosphat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338611 | gene-RPS26P40 | **RPS26P40** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338645 | NM_001009909,NM | **LUZP2** | leucine zipper protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338651 | NR_021489 | **KRTAP5-AS1** | KRTAP5-1/KRTAP5-2 an | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338653 | NR_130721 | **KCNQ1-AS1** | KCNQ1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338657 | NM_198489,NR_10 | **CCDC84** | coiled-coil domain contai | protein_coding | 21 | 22 | 22 | 23 | 1.043 |
| 338661 | NM_001013743,NM | **TMEM225** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338662 | NM_001005197 | **OR8D4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338667 | NM_001365077,XM | **VSIG10L2** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338674 | NM_003697 | **OR5F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338675 | NM_001002925 | **OR5AP2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338692 | NM_001347901,NM | **ANKRD13D** | ankyrin repeat domain 1 | protein_coding | 36 | 39 | 37 | 40 | 1.062 |
| 338694 | NR_104161 | **LOC338694** | uncharacterized LOC338 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338699 | NM_001300972,NM | **ANKRD42** | ankyrin repeat domain 4 | protein_coding | 5 | 4 | 6 | 5 | 0.855 |
| 338707 | NM_178537,XM_01 | **B4GALNT4** | beta-1,4-N-acetyl-galact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338739 | NR_034027 | **CSTF3-DT** | CSTF3 divergent transcr | lncRNA | 2 | 3 | 3 | 4 | 1.100 |
| 338751 | NM_001005173 | **OR52L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338755 | NM_001004490 | **OR2AG2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338758 | NR_028138 | **ATP2B1-AS1** | ATP2B1 antisense RNA : | lncRNA | 1 | 1 | 2 | 2 | 1.091 |
| 338761 | NM_001008223,XM | **C1QL4** | complement C1q like 4 | protein_coding | 1 | 1 | 2 | 2 | 1.312 |
| 338773 | NM_181724,XM_01 | **TMEM119** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338785 | NM_175834 | **KRT79** | keratin 79 | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 338797 | NR_103736 | **LINC02370** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338799 | NR_002809,NR_15 | **LINC01089** | long intergenic non-prote | lncRNA | 9 | 8 | 10 | 9 | 0.945 |
| 338805 | gene-ST13P8 | **ST13P8** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338811 | NM_178539,XM_01 | **TAFA2** | TAFA chemokine like fan | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 338817 | NR_033890 | **LINC01252** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 338821 | NM_001009562 | **SLCO1B7** | solute carrier organic ani | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338862 | NR_038878 | **LINC00550** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338864 | NR_034024,NR_03 | **LINC00347** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 338870 | gene-RPS12P23 | **RPS12P23** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 338872 | NM_001303137,NM | **C1QTNF9** | C1q and TNF related 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338879 | NM_001012975 | **RNASE10** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338917 | NM_182894 | **VSX2** | visual system homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338949 | NM_001080462,NR | **TMEM202** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 338963 | NR_034139 | **LOC338963** | epididymal protein pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339005 | NR_003521 | **WHAMMP3** | WAS protein homolog as | transcribed_pseu | 1 | 1 | 2 | 2 | 1.026 |
| 339039 | gene-PKD1P3 | **PKD1P3** | polycystin 1, transient re | pseudogene | 2 | 3 | 3 | 4 | 1.284 |
| 339044 | NR_036447 | **PKD1P1** | polycystin 1, transient re | transcribed_pseu | 21 | 21 | 22 | 22 | 1.003 |
| 339059 | NR_120387 | **LOC339059** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.046 |
| 339105 | NM_001039503,XM | **PRSS53** | serine protease 53 | protein_coding | 1 | 1 | 2 | 2 | 1.000 |
| 339122 | NM_001204883,NM | **RAB43** | RAB43, member RAS on | protein_coding | 25 | 22 | 26 | 23 | 0.895 |
| 339123 | NM_001005920,NM | **JMJD8** | jumonji domain containir | protein_coding | 13 | 13 | 14 | 14 | 1.037 |
| 339145 | NM_001366920,NM | **CIBAR2** | CBY1 interacting BAR dc | protein_coding | 0 | 0 | 1 | 1 | 0.781 |
| 339166 | NR_040000 | **LOC339166** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339168 | NM_001320435,NM | **TMEM95** | transmembrane protein 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339175 | NM_181725,XM_01 | **METTL2A** | methyltransferase like 2/ | protein_coding | 21 | 21 | 22 | 22 | 0.963 |
| 339184 | NR_164128 | **CCDC144NL** | CCDC144A N-terminal p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339192 | NR_147507 | **LOC339192** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.034 |
| 339201 | NR_049729,NR_04 | **ASB16-AS1** | ASB16 antisense RNA 1 | lncRNA | 11 | 12 | 12 | 13 | 1.080 |
| 339210 | NM_001085430 | **C17orf67** | chromosome 17 open rea | protein_coding | 5 | 5 | 6 | 6 | 0.871 |
| 339221 | NM_178543,XM_01 | **ENPP7** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339229 | NM_001039842,NM | **OXLD1** | oxidoreductase like doma | protein_coding | 39 | 40 | 40 | 41 | 1.010 |
| 339230 | NM_199287,XM_01 | **CCDC137** | coiled-coil domain contai | protein_coding | 106 | 112 | 107 | 113 | 1.061 |
| 339231 | NM_001040025,NM | **ARL16** | ADP ribosylation factor li | protein_coding | 43 | 47 | 44 | 48 | 1.107 |
| 339240 | NR_001443 | **KRT17P5** | keratin 17 pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339241 | NR_146075 | **KRT17P2** | keratin 17 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339244 | gene-KRT16P4 | **KRT16P4** | keratin 16 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339256 | NR_144552 | **NOS2P3** | nitric oxide synthase 2 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339260 | NR_123730,NR_16 | **LOC339260** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339263 | NR_160801 | **LINC02693** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339287 | NM_001012241,NM | **MSL1** | MSL complex subunit 1 | protein_coding | 68 | 61 | 69 | 62 | 0.897 |
| 339290 | NR_015389 | **LINC00667** | long intergenic non-prote | lncRNA | 11 | 12 | 12 | 13 | 1.068 |
| 339291 | NM_001105581 | **LRRC30** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339298 | NR_040034 | **LOC339298** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339302 | NM_181654 | **CPLX4** | complexin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339318 | NM_001029997,NM | **ZNF181** | zinc finger protein 181 | protein_coding | 6 | 6 | 7 | 7 | 1.012 |
| 339324 | NM_001012756,NM | **ZNF260** | zinc finger protein 260 | protein_coding | 11 | 9 | 12 | 10 | 0.828 |
| 339327 | NM_001297763,NM | **ZNF546** | zinc finger protein 546 | protein_coding | 1 | 2 | 2 | 3 | 1.048 |
| 339344 | NM_001012643,XM | **MYPOP** | Myb related transcription | protein_coding | 15 | 17 | 16 | 18 | 1.148 |
| 339345 | NM_001029861 | **NANOS2** | nanos C2HC-type zinc fi | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 339352 | gene-LOC339352 | **LOC339352** | cytosolic thiouridylase su | pseudogene | 0 | 1 | 1 | 2 | 1.368 |
| 339366 | NM_001367197,NM | **ADAMTSL5** | ADAMTS like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339390 | NM_001244856,NM | **CLEC4G** | C-type lectin domain fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339396 | gene-NEFHP1 | **NEFHP1** | neurofilament heavy pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339398 | NM_001004432 | **LINGO4** | leucine rich repeat and Ig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339400 | NR_103778,NR_10 | **FLG-AS1** | FLG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339403 | NM_181885 | **RXFP4** | relaxin family peptide/IN | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339416 | NM_198493,NR_15 | **ANKRD45** | ankyrin repeat domain 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339442 | NR_038928 | **LINC01343** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339448 | NM_207356,XM_00 | **C1orf174** | chromosome 1 open rea | protein_coding | 46 | 39 | 47 | 40 | 0.860 |
| 339451 | NM_198317,XM_00 | **KLHL17** | kelch like family member | protein_coding | 2 | 1 | 3 | 2 | 0.878 |
| 339453 | NM_001114748 | **TMEM240** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 339456 | NM_178545 | **TMEM52** | transmembrane protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339468 | XR_947509 | **LINC02796** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339479 | NM_001317188,NM | **BRINP3** | BMP/retinoic acid inducit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339483 | NR_026850 | **MTMR9LP** | myotubularin related pro | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339487 | NM_001308135,NM | **ZBTB8OS** | zinc finger and BTB dom | protein_coding | 46 | 45 | 47 | 46 | 0.966 |
| 339488 | NM_178548,XM_01 | **TFAP2E** | transcription factor AP-2 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 339500 | NM_001367909,NM | **ZNF678** | zinc finger protein 678 | protein_coding | 2 | 2 | 3 | 3 | 0.811 |
| 339501 | NM_001374657,NM | **PRSS38** | serine protease 38 | protein_coding | 0 | 0 | 1 | 1 | 0.865 |
| 339505 | NR_033887 | **LINC01141** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339512 | NM_178550,XM_00 | **CCDC190** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339521 | gene-CCNQP1 | **CCNQP1** | CCNQ pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 339524 | NR_026985,NR_02( | **LINC01140** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.786 |
| 339529 | NR_033883 | **LINC02774** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339535 | NR_015407 | **LINC01139** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339539 | NR_104171 | **LOC339539** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339541 | NM_001145636,XM_ | **ARMH1** | armadillo like helical dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339559 | NM_001320178,NM | **ZFP69** | ZFP69 zinc finger protein | protein_coding | 7 | 6 | 8 | 7 | 0.907 |
| 339568 | NR_027124 | **LINC01734** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339593 | NR_038972 | **LOC339593** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 339622 | NR_046198 | **LINC01692** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339665 | NM_001001479,NM | **SLC35E4** | solute carrier family 35 m | protein_coding | 2 | 1 | 3 | 2 | 0.710 |
| 339666 | NR_038918 | **LOC339666** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339669 | NM_001163857,NM | **TEX33** | testis expressed 33 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339674 | NR_024355 | **LINC00634** | long intergenic non-prote | lncRNA | 1 | 2 | 2 | 3 | 1.297 |
| 339685 | NR_144462 | **LOC339685** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339736 | gene-AK2P2 | **AK2P2** | adenylate kinase 2 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.066 |
| 339742 | NR_135203 | **FAM201B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339745 | NM_001001664,XM_ | **SPOPL** | speckle type BTB/POZ p | protein_coding | 16 | 13 | 17 | 14 | 0.804 |
| 339751 | NR_033882 | **MAP3K20-AS1** | MAP3K20 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339761 | NM_001001665,NM | **CYP27C1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339766 | NM_001367507,XM_ | **MROH2A** | maestro heat like repeat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339768 | NM_001308370,NM | **ESPNL** | espin like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339778 | NM_001105519,NM | **FAM166C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339779 | NM_178553 | **PRR30** | proline rich 30 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339781 | gene-KRT18P19 | **KRT18P19** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.950 |
| 339788 | NR_015405 | **LINC00298** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339789 | NR_034135,NR_15 | **LINC00299** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 339799 | gene-EIF3FP3 | **EIF3FP3** | eukaryotic translation init | pseudogene | 10 | 9 | 11 | 10 | 0.861 |
| 339803 | NR_036496 | **LOC339803** | uncharacterized LOC339 | lncRNA | 14 | 13 | 15 | 14 | 0.945 |
| 339804 | NM_001143959,NM | **C2orf74** | chromosome 2 open rea | protein_coding | 28 | 34 | 29 | 35 | 1.173 |
| 339807 | NR_034023 | **LINC02579** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339822 | NR_033880,NR_11 | **LINC01115** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339829 | NM_181426 | **CCDC39** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339834 | NM_001135197,NM | **IHO1** | interactor of HORMAD1 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339843 | gene-WWP1P1 | **WWP1P1** | WW domain containing E | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339845 | gene-ASS1P7 | **ASS1P7** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339855 | NM_001350859,NM | **KY** | kyphoscoliosis peptidase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339862 | NR_161333 | **LOC339862** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339874 | NR_038976 | **LOC339874** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 0.884 |
| 339879 | gene-ALG1L6P | **ALG1L6P** | ALG1 like 6, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339881 | gene-EIF4BP8 | **EIF4BP8** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339883 | NM_001302831,NM | **C3orf35** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.882 |
| 339894 | NR_034007 | **LINC00880** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339896 | NM_207359,XM_01 | **GADL1** | glutamate decarboxylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339897 | gene-CNN2P6 | **CNN2P6** | calponin 2 pseudogene ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 339902 | NR_149028 | **LOC339902** | hCG1813818 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339906 | NR_148409,NR_16( | **PRSS42P** | serine protease 42, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 339926 | NR_038990 | **EHHADH-AS1** | EHHADH antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339929 | NR_036497 | **LPP-AS2** | LPP antisense RNA 2 | lncRNA | 1 | 1 | 2 | 2 | 1.050 |
| 339942 | NR_026991 | **H1-10-AS1** | H1-10 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 339965 | NM_001042784,XM_ | **CCDC158** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339966 | gene-LOC339966 | **LOC339966** | ubiquitin family domain c | pseudogene | 0 | 0 | 1 | 1 | 1.043 |
| 339967 | NM_001114387,NM | **TMPRSS11A** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339970 | gene-GCOM2 | **GCOM2** | GRINL1B complex locus | pseudogene | 1 | 1 | 2 | 2 | 1.014 |
| 339975 | NR_038931 | **LOC339975** | uncharacterized LOC339 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339976 | NM_178556,XM_00( | **TRIML1** | tripartite motif family like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339977 | NM_001024611 | **LRRC66** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339978 | NR_134657 | **LINC02260** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 339983 | NM_178557 | **NAT8L** | N-acetyltransferase 8 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 339988 | NR_147207 | **LINC02481** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.024 |
| 340017 | NR_026992 | **LINC02433** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340024 | NM_001003841 | **SLC6A19** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340037 | NR_038915,NR_03 | **PRR7-AS1** | PRR7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 340061 | NM_001301738,NM | **STING1** | stimulator of interferon re | protein_coding | 46 | 41 | 47 | 42 | 0.894 |
| 340069 | NM_001163991,NM | **FAM170A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340073 | NR_037895 | **C5orf66-AS2** | C5orf66 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340074 | NR_027127 | **SLC25A48-AS1** | SLC25A48 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340075 | NM_001012301 | **ARSI** | arylsulfatase family mem | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 340090 | NR_134291 | **LOC340090** | uncharacterized LOC340 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 340094 | NR_026994 | **LINC01020** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340096 | NM_001371919 | **H3Y2** | H3.Y histone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340107 | NR_037896 | **LINC02239** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340113 | NR_033832 | **LINC02120** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340120 | NM_001004441,XM_ | **ANKRD34B** | ankyrin repeat domain 34 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340146 | NM_001008783 | **SLC35D3** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340152 | NM_207360 | **ZC3H12D** | zinc finger CCCH-type co | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 340156 | NM_001012418,NM | **MYLK4** | myosin light chain kinase | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 340168 | NM_001025290 | **DPPA5** | developmental pluripoter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340184 | XR_001743973 | **LOC340184** | uncharacterized LOC340 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340192 | gene-IQCB2P | **IQCB2P** | IQ motif containing B2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.021 |
| 340198 | NR_001590 | **IFITM4P** | interferon induced transr | transcribed_pseu | 0 | 0 | 1 | 1 | 0.849 |
| 340204 | NM_001010886,NM | **CLPSL1** | colipase like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340205 | NM_001271807,NM | **TREML1** | triggering receptor expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340206 | NR_027256 | **TREML3P** | triggering receptor expre | transcribed_pseu | 0 | 0 | 1 | 1 | 1.051 |
| 340217 | gene-NANOGP3 | **NANOGP3** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340252 | NM_001130022,NM | **ZNF680** | zinc finger protein 680 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340260 | NM_001080461 | **UNCX** | UNC homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340267 | NM_001037763,XM_ | **COL28A1** | collagen type XXVIII alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340268 | gene-LOC340268 | **LOC340268** | C3 and PZP like alpha-2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340273 | NM_001163941,NM | **ABCB5** | ATP binding cassette sul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340274 | gene-ASS1P11 | **ASS1P11** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340277 | NM_001127364,NM | **FAM221A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340286 | NR_028347 | **FAM183BP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.061 |
| 340307 | NR_178561 | **CTAGE6** | CTAGE family member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340348 | NM_178562,XM_00( | **TSPAN33** | tetraspanin 33 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340351 | NM_001345850,NM | **AGBL3** | ATP/GTP binding protein | protein_coding | 9 | 7 | 10 | 8 | 0.844 |
| 340357 | NR_015383,NR_15 | **LOC340357** | uncharacterized LOC340 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340359 | NM_001081675 | **KLHL38** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340371 | NM_178564,XM_01 | **NRBP2** | nuclear receptor binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340385 | NM_001317936,NM | **ZNF517** | zinc finger protein 517 | protein_coding | 0 | 0 | 1 | 1 | 1.047 |
| 340390 | NM_001316309,XM_ | **WDR97** | WD repeat domain 97 | protein_coding | 0 | 0 | 1 | 1 | 0.963 |
| 340393 | NM_001252402,NM | **TMEM249** | transmembrane protein 2 | protein_coding | 1 | 0 | 2 | 1 | 0.923 |
| 340419 | NM_001282863,NM | **RSPO2** | R-spondin 2 | protein_coding | 0 | 0 | 1 | 1 | 0.922 |
| 340441 | NM_001002920,NM | **POTEA** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340451 | gene-CPP | **CPP** | ceruloplasmin pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.085 |
| 340460 | gene-KRT18P24 | **KRT18P24** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340481 | NM_001354118,NM | **ZDHHC21** | zinc finger DHHC-type p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340485 | NM_001010887,XM_ | **ACER2** | alkaline ceramidase 2 | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 340499 | gene-IMPDH1P1 | **IMPDH1P1** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340501 | gene-TCEA1P3 | **TCEA1P3** | transcription elongation f | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340508 | NR_002942 | **GAS2L1P2** | growth arrest specific 2 li | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 340512 | NR_126029 | **LOC340512** | uncharacterized LOC340 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340515 | NR_034157 | **LINC01501** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340526 | NM_001024455 | **RTL5** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 340527 | NM_001013627,XM | **NHSL2** | NHS like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 340529 | NM_001012977 | **PABPC1L2A** | poly(A) binding protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340533 | NM_001008537 | **NEXMIF** | neurite extension and mi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340542 | NM_001012978,NM | **BEX5** | brain expressed X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340543 | NM_001012979 | **TCEAL5** | transcription elongation f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340544 | NR_038978 | **MORF4L2-AS1** | MORF4L2 antisense RN | lncRNA | 1 | 1 | 2 | 2 | 1.009 |
| 340547 | NM_001170553,NM | **VSIG1** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340554 | NM_001010888,XM_ | **ZC3H12B** | zinc finger CCCH-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340562 | NM_001012980,NM | **SATL1** | spermidine/spermine N1- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340571 | gene-SIAH1P1 | **SIAH1P1** | siah E3 ubiquitin protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340578 | NM_001013628 | **DCAF12L2** | DDB1 and CUL4 associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340581 | NR_134925 | **LINC02243** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340591 | NR_026551,NR_16( | **CA5BP1** | carbonic anhydrase 5B p | transcribed_pseu | 18 | 16 | 19 | 17 | 0.897 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 340595 | NM_001004308 | **RTL4** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340596 | NM_178175,XM_01 | **LHFPL1** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340598 | gene-KRT18P48 | **KRT18P48** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340600 | gene-ATF4P2 | **ATF4P2** | activating transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 340602 | NM_203407 | **EZHIP** | EZH inhibitory protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340618 | NR_028083 | **FAM41AY1** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 340654 | NM_001128215,XM | **LIPM** | lipase family member M | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340665 | NM_183374 | **CYP26C1** | cytochrome P450 family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340706 | NM_001272046,NM | **VWA2** | von Willebrand factor A c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340719 | NM_199461 | **NANOS1** | nanos C2HC-type zinc fi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340745 | NM_001017924,NM | **LRIT2** | leucine rich repeat, Ig-lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340749 | gene-RPL7AP8 | **RPL7AP8** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340780 | gene-IMPDH1P5 | **IMPDH1P5** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 0.936 |
| 340784 | NM_001105574 | **HMX3** | H6 family homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340811 | NR_027916 | **AKR1C8P** | aldo-keto reductase fami | transcribed_pseu | 0 | 0 | 1 | 1 | 0.936 |
| 340844 | gene-AHCYP1 | **AHCYP1** | adenosylhomocysteinas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340888 | gene-AKR1B10P1 | **AKR1B10P1** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340895 | NM_001142308,XM | **MALRD1** | MAM and LDL receptor c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340900 | NM_001199938 | **EBLN1** | endogenous Bornavirus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340947 | gene-EIF3LP3 | **EIF3LP3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340970 | gene-TRIM53CP | **TRIM53CP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 340980 | NM_001005162 | **OR52B6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 340990 | NM_001277269,NM | **OTOG** | otogelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341019 | NM_001367979,NM | **DCDC1** | doublecortin domain con | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 341032 | NM_198498,XM_01 | **C11orf53** | chromosome 11 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341056 | NR_027288 | **LOC341056** | SUMO1 activating enzym | transcribed_pseu | 0 | 0 | 1 | 1 | 1.022 |
| 341116 | NM_206893,XM_01 | **MS4A10** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341148 | gene-CYCSP27 | **CYCSP27** | CYCS pseudogene 27 | pseudogene | 0 | 0 | 1 | 1 | 1.021 |
| 341152 | NM_001005285 | **OR2AT4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341208 | NM_001098672 | **HEPHL1** | hephaestin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341230 | gene-ASS1P13 | **ASS1P13** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341276 | NM_001004460 | **OR10A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341277 | NM_001367963,NM | **OVCH2** | ovochymase 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341315 | gene-PABPC1P4 | **PABPC1P4** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 0.964 |
| 341333 | gene-HNRNPA1P70 | **HNRNPA1P70** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.306 |
| 341346 | NM_001145010,XM | **SMCO2** | single-pass membrane p | protein_coding | 1 | 0 | 2 | 1 | 0.892 |
| 341350 | NM_001353179,XM | **OVCH1** | ovochymase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341359 | NM_198992,XM_01 | **SYT10** | synaptotagmin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341378 | gene-LOC341378 | **LOC341378** | thyroid hormone recepto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341392 | NM_001080454 | **ACSM4** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341405 | NM_001130015,NM | **ANKRD33** | ankyrin repeat domain 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341416 | NM_054105 | **OR6C2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341418 | NM_001005494 | **OR6C4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341457 | gene-PPIAP8 | **PPIAP8** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 341469 | gene-MRPS7P2 | **MRPS7P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341511 | gene-RPL23AP14 | **RPL23AP14** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341567 | NM_181788 | **H1-7** | H1.7 linker histone | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341568 | NM_001005203 | **OR8S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341640 | NM_207361,XM_01 | **FREM2** | FRAS1 related extracellu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341676 | NM_001365552,NM | **NEK5** | NIMA related kinase 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341689 | gene-CTAGE16P | **CTAGE16P** | CTAGE family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341757 | gene-MRPS31P2 | **MRPS31P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 341784 | gene-EIF4A1P7 | **EIF4A1P7** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.058 |
| 341799 | NM_001001968 | **OR6S1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341880 | NM_001206920,NM | **SLC35F4** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341883 | NM_001355272,NR | **LRRC9** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341947 | NM_182971 | **COX8C** | cytochrome c oxidase su | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 341965 | gene-VDAC3P1 | **VDAC3P1** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342035 | NM_001330297,NM | **GLDN** | gliomedin | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 342096 | NM_001038640 | **GOLGA6A** | golgin A6 family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342125 | NM_001080532 | **TMC3** | transmembrane channel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342132 | NM_001004309,XM | **ZNF774** | zinc finger protein 774 | protein_coding | 1 | 1 | 2 | 2 | 1.064 |
| 342184 | NM_001103184,NM | **FMN1** | formin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 342346 | NM_001145011,XM | **C16orf96** | chromosome 16 open re | protein_coding | 0 | 0 | 1 | 1 | 1.034 |
| 342357 | NM_001012981,XM | **ZKSCAN2** | zinc finger with KRAB an | protein_coding | 6 | 7 | 7 | 8 | 1.127 |
| 342358 | gene-CYCSP39 | **CYCSP39** | CYCS pseudogene 39 | pseudogene | 0 | 0 | 1 | 1 | 0.915 |
| 342371 | NM_001137675 | **ATXN1L** | ataxin 1 like | protein_coding | 17 | 16 | 18 | 17 | 0.926 |
| 342372 | NM_181536,XM_01 | **PKD1L3** | polycystin 1 like 3, transi | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 342374 | gene-KRT18P18 | **KRT18P18** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342419 | gene-KRT8P22 | **KRT8P22** | keratin 8 pseudogene 22 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342510 | NM_181449,XM_01 | **CD300E** | CD300e molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342527 | NM_001114974,NM | **SMTNL2** | smoothelin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342538 | NM_199290 | **NACA2** | nascent polypeptide ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342541 | gene-PPIAP55 | **PPIAP55** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.101 |
| 342574 | NM_181537 | **KRT27** | keratin 27 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342618 | NM_001129820,XM | **SLFN14** | schlafen family member | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 342666 | NR_033753 | **LRRC37A11P** | leucine rich repeat conta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 342667 | NM_001351360,NM | **STAC2** | SH3 and cysteine rich dc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342705 | gene-PGDP1 | **PGDP1** | phosphogluconate dehy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342732 | gene-KRT8P5 | **KRT8P5** | keratin 8 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342776 | gene-MRPS17P7 | **MRPS17P7** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342784 | gene-LOC342784 | **LOC342784** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 342808 | gene-RPS2P6 | **RPS2P6** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 342850 | NM_001277333,XR | **ANKRD62** | ankyrin repeat domain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342865 | NM_001146339,XM | **VSTM2B** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342892 | NM_001193552,NM | **ZNF850** | zinc finger protein 850 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342897 | NM_001001414,XM | **NCCRP1** | NCCRP1, F-box associat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342898 | NM_001080468 | **SYCN** | syncollin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342900 | NM_001143832,NM | **LEUTX** | leucine twenty homeobo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342908 | NM_001033719 | **ZNF404** | zinc finger protein 404 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342909 | NM_001037813,XM | **ZNF284** | zinc finger protein 284 | protein_coding | 0 | 0 | 1 | 1 | 0.917 |
| 342918 | NM_001195076 | **C19orf81** | chromosome 19 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342926 | NM_001317998,NM | **ZNF677** | zinc finger protein 677 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342931 | NM_001145014,XM | **RFPL4A** | ret finger protein like 4A | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 342933 | NM_001080456,XM | **ZSCAN5B** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342945 | NM_001321116,NM | **ZSCAN22** | zinc finger and SCAN do | protein_coding | 4 | 3 | 5 | 4 | 0.955 |
| 342977 | NM_001098622,NR | **NANOS3** | nanos C2HC-type zinc fi | protein_coding | 0 | 0 | 1 | 1 | 0.747 |
| 342979 | NM_001145028,NM | **PALM3** | paralemmin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 342994 | gene-RPL34P34 | **RPL34P34** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343035 | NM_001164688,NM | **RD3** | retinal degeneration 3, G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343045 | gene-CYCSP51 | **CYCSP51** | CYCS pseudogene 51 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343052 | NR_126565 | **LOC343052** | immunoglobulin superfa | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 343066 | NM_001013630,XM | **AADACL4** | arylacetamide deacetyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343068 | NM_001013407 | **PRAMEF5** | PRAME family member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343069 | NM_001013631 | **HNRNPCL1** | heterogeneous nuclear r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343070 | NM_001010890 | **PRAMEF9** | PRAME family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343071 | NM_001039361 | **PRAMEF10** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343099 | NM_001306076,NM | **CCDC18** | coiled-coil domain contai | protein_coding | 19 | 15 | 20 | 16 | 0.805 |
| 343165 | gene-LOC343165 | **LOC343165** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 343169 | NM_001005286 | **OR6F1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343170 | NM_001004732 | **OR14K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343171 | NM_001001957 | **OR2W3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343172 | NM_001005522,XM | **OR2T8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343173 | NM_001005495 | **OR2T3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343184 | gene-RPS2P11 | **RPS2P11** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 343263 | NM_001010985,NM | **MYBPHL** | myosin binding protein H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343296 | gene-ADH5P2 | **ADH5P2** | ADH5 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343301 | gene-RPL10AP4 | **RPL10AP4** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343326 | gene-KRT18P28 | **KRT18P28** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343332 | gene-FDPSP1 | **FDPSP1** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343338 | gene-GAPDHP20 | **GAPDHP20** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343406 | NM_001004472 | **OR10R2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343413 | NM_001004310,NM | **FCRL6** | Fc receptor like 6 | protein_coding | 1 | 1 | 2 | 2 | 1.138 |
| 343450 | NM_001287819,NM | **KCNT2** | potassium sodium-activa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343472 | NM_020063 | **BARHL2** | BarH like homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343477 | gene-HSP90B3P | **HSP90B3P** | heat shock protein 90 be | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 343495 | gene-RPL6P2 | **RPL6P2** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343505 | NM_001047980,XM | **NBPF7** | NBPF member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343508 | gene-LOC343508 | **LOC343508** | aconitase 2, mitochondri | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343515 | gene-ATP6V1E1P1 | **ATP6V1E1P1** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343521 | NM_001013632,NM | **TCTEX1D4** | Tctex1 domain containin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343563 | NM_001004694 | **OR2T29** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343578 | NM_001164431 | **ARHGAP40** | Rho GTPase activating p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343637 | NM_001029871,NM | **RSPO4** | R-spondin 4 | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 343641 | NM_001254734,NM | **TGM6** | transglutaminase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343702 | NM_001011718 | **XKR7** | XK related 7 | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 343819 | gene-MRPL51P2 | **MRPL51P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343851 | gene-RPS10P30 | **RPS10P30** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343930 | NM_001105569 | **MSGN1** | mesogenin 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 343981 | gene-GLULP6 | **GLULP6** | glutamate-ammonia ligas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 343990 | NM_207362,XM_00 | **CRACDL** | CRACD like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344018 | NM_001004311 | **FIGLA** | folliculogenesis specific | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344022 | NM_001134462 | **NOTO** | notochord homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344148 | NM_207363,NM_20 | **NCKAP5** | NCK associated protein 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344167 | NM_001135649 | **FOXI3** | forkhead box I3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344178 | gene-RPL5P7 | **RPL5P7** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344191 | NM_001080458 | **EVX2** | even-skipped homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344320 | gene-KRT8P10 | **KRT8P10** | keratin 8 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344328 | gene-ST13P2 | **ST13P2** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344332 | gene-FABP5P10 | **FABP5P10** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 344371 | gene-SLC25A5P2 | **SLC25A5P2** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344382 | gene-LOC344382 | **LOC344382** | serine/threonine kinase r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344387 | NM_001009565,NM | **CDKL4** | cyclin dependent kinase | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 344405 | NR_027258 | **PRORSD1P** | prolyl-tRNA synthetase a | transcribed_pseu | 2 | 2 | 3 | 3 | 1.070 |
| 344423 | gene-RPS12P3 | **RPS12P3** | ribosomal protein S12 ps | pseudogene | 0 | 1 | 1 | 2 | 1.418 |
| 344462 | gene-KRT18P39 | **KRT18P39** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344471 | gene-RPL12P17 | **RPL12P17** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.079 |
| 344558 | NM_001099289,XM | **SH3RF3** | SH3 domain containing r | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 344561 | NM_207364 | **GPR148** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344593 | gene-LOC344593 | **LOC344593** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344595 | NR_028301,NR_02 | **DUBR** | DPPA2 upstream binding | lncRNA | 9 | 8 | 10 | 9 | 0.864 |
| 344653 | gene-ABCF2P1 | **ABCF2P1** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 344657 | NM_001080460,XM | **LRRIQ4** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 344658 | NM_001304366,NM | **SAMD7** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344697 | gene-HNRNPA1P21 | **HNRNPA1P21** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.043 |
| 344709 | gene-CCDC75P1 | **CCDC75P1** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 344741 | gene-HNRNPA1P20 | **HNRNPA1P20** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344752 | NM_207365,XM_01 | **AADACL2** | arylacetamide deacetyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344758 | NM_001038705 | **GPR149** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344787 | NM_001137674,XM | **ZNF860** | zinc finger protein 860 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344805 | NM_001042575,NM | **TMPRSS7** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 344807 | NM_001008784,NM | **CD200R1L** | CD200 receptor 1 like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344813 | gene-GSTO3P | **GSTO3P** | glutathione S-transferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344838 | NM_001375300,NM | **PAQR9** | progestin and adipoQ re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344866 | gene-KRT18P17 | **KRT18P17** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 344875 | NR_027927 | **COL6A4P1** | collagen type VI alpha 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 344887 | NR_151491 | **NMRAL2P** | NmrA like redox sensor 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 344892 | NM_001004312,XM | **RTP2** | receptor transporter prot | protein_coding | 0 | 0 | 1 | 1 | 0.950 |
| 344901 | NM_198184,XM_01 | **OSTN** | osteocrin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344905 | NM_198505,XM_01 | **ATP13A5** | ATPase 13A5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 344967 | NR_027277 | **LOC344967** | acyl-CoA thioesterase 7 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 344978 | gene-ACTN4P1 | **ACTN4P1** | actinin alpha 4 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.082 |
| 344988 | gene-SAR1AP3 | **SAR1AP3** | secretion associated Ras | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 345016 | gene-PES1P1 | **PES1P1** | pescadillo ribosomal bio | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 345041 | gene-HSPD1P5 | **HSPD1P5** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.028 |
| 345051 | NM_001354631,NM | **REELD1** | reeler domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 345062 | NM_001353611,NM | **PRSS48** | serine protease 48 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345079 | NM_001029870 | **SOWAHB** | sosondowah ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345193 | NM_198506,XM_01 | **LRIT3** | leucine rich repeat, Ig-lik | protein_coding | 0 | 0 | 1 | 1 | 1.061 |
| 345222 | NM_001042690,NM | **MSANTD1** | Myb/SANT DNA binding | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 345258 | gene-BIN2P1 | **BIN2P1** | bridging integrator 2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 345274 | NM_197965 | **SLC10A6** | solute carrier family 10 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345275 | NM_001136230,NM | **HSD17B13** | hydroxysteroid 17-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345430 | gene-KRT18P41 | **KRT18P41** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 345456 | NM_001029886 | **PFN3** | profilin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345462 | NM_001136116,NM | **ZNF879** | zinc finger protein 879 | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 345557 | NM_001005473,XM | **PLCXD3** | phosphatidylinositol spe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345571 | gene-LOC345571 | **LOC345571** | RUN and FYVE domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 345576 | gene-LOC345576 | **LOC345576** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 345611 | NM_001145805,NM | **IRGM** | immunity related GTPase | protein_coding | 1 | 0 | 2 | 1 | 0.769 |
| 345630 | NM_001355274 | **FBLL1** | fibrillarin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.286 |
| 345643 | NM_001190787,XM | **MCIDAS** | multiciliate differentiation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345645 | gene-PSMC1P4 | **PSMC1P4** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 345651 | NM_001017992 | **ACTBL2** | actin beta like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 345757 | NM_198507,XM_00 | **FAM174A** | family with sequence sim | protein_coding | 4 | 5 | 5 | 6 | 1.261 |
| 345778 | NM_001010891,NM | **MTX3** | metaxin 3 | protein_coding | 8 | 6 | 9 | 7 | 0.795 |
| 345829 | gene-BTF3P10 | **BTF3P10** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 345895 | NM_001010892,NM | **RSPH4A** | radial spoke head compo | protein_coding | 1 | 1 | 2 | 2 | 1.131 |
| 345930 | NM_001077706,NM | **ECT2L** | epithelial cell transformin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346007 | NM_001142800,NM | **EYS** | eyes shut homolog | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 346085 | gene-GAPDHP72 | **GAPDHP72** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 346116 | gene-MRPL42P2 | **MRPL42P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 346157 | NM_001076781,NM | **ZNF391** | zinc finger protein 391 | protein_coding | 1 | 1 | 2 | 2 | 0.892 |
| 346171 | NM_001109809,NM | **ZFP57** | ZFP57 zinc finger protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346288 | NM_207366,XM_01 | **SEPTIN14** | septin 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346296 | gene-LOC346296 | **LOC346296** | insulin like growth factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 346329 | gene-LOC346329 | **LOC346329** | G protein subunit alpha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 346389 | NM_182762 | **MACC1** | MET transcriptional regu | protein_coding | 2 | 2 | 3 | 3 | 0.838 |
| 346517 | NM_001001667 | **OR6V1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346525 | NM_001004135 | **OR2A12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346528 | NM_001005287 | **OR2A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346562 | NM_001102386,XM | **GNAT3** | G protein subunit alpha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346606 | NM_001287147,NM | **MOGAT3** | monoacylglycerol O-acyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346653 | NM_001012454,NM | **FAM71F2** | family with sequence sim | protein_coding | 1 | 0 | 2 | 1 | 0.952 |
| 346673 | NM_182489,XM_01 | **STRA8** | stimulated by retinoic aci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346689 | NM_198508,XM_00 | **KLRG2** | killer cell lectin like recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 346950 | gene-RPL37P6 | **RPL37P6** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 0.936 |
| 346990 | gene-H2AZP2 | **H2AZP2** | H2A.Z histone pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347028 | gene-AFG3L2P1 | **AFG3L2P1** | AFG3 like AAA ATPase 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347051 | NM_001010893 | **SLC10A5** | solute carrier family 10 m | protein_coding | 0 | 0 | 1 | 1 | 0.804 |
| 347088 | XM_006717348,XR | **ADGRD2** | adhesion G protein-coup | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347097 | gene-LOC347097 | **LOC347097** | dermatan sulfate epimer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347127 | NR_026851 | **SPATA31D5P** | SPATA31 subfamily D m | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 347148 | NM_198180 | **QRFP** | pyroglutamylated RFami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347168 | NM_001004451 | **OR1J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347169 | NM_001004450,XM | **OR1B1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347240 | NM_194313,XM_00 | **KIF24** | kinesin family member 24 | protein_coding | 6 | 5 | 7 | 6 | 0.916 |
| 347252 | NM_001007563,XM | **IGFBPL1** | insulin like growth factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347265 | gene-KRT8P11 | **KRT8P11** | keratin 8 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 347273 | NM_001018116 | **CAVIN4** | caveolae associated prot | protein_coding | 4 | 5 | 5 | 6 | 1.053 |
| 347292 | gene-RPL36P14 | **RPL36P14** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347333 | gene-KRT8P14 | **KRT8P14** | keratin 8 pseudogene 14 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347344 | NM_001378152,NM | **ZNF81** | zinc finger protein 81 | protein_coding | 4 | 4 | 5 | 5 | 0.834 |
| 347359 | gene-BMP2KL | **BMP2KL** | BMP2 inducible kinase li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347363 | gene-KIF4CP | **KIF4CP** | kinesin family member 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347365 | NM_198510 | **ITIH6** | inter-alpha-trypsin inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347376 | gene-H3P44 | **H3P44** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347381 | gene-LOC347381 | **LOC347381** | hydroxyacyl-CoA dehydr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347404 | NM_001170331,NM | **LANCL3** | LanC like 3 | protein_coding | 1 | 1 | 2 | 2 | 1.052 |
| 347411 | NM_001195522 | **MPC1L** | mitochondrial pyruvate c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347422 | gene-LOC347422 | **LOC347422** | tRNA methyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347442 | NM_001353448,NM | **DCAF8L2** | DDB1 and CUL4 associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 347454 | NM_001105576 | **SOWAHD** | sosondowah ankyrin rep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347468 | NM_001004486 | **OR13H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347475 | NM_001101357,NM | **CCDC160** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347487 | NM_001013403 | **CXorf66** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347509 | gene-RPL7L1P11 | **RPL7L1P11** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347516 | NM_198512 | **DGAT2L6** | diacylglycerol O-acyltran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347517 | NM_001032726,NM | **RAB41** | RAB41, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347527 | NM_001011719 | **ARSH** | arylsulfatase family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347541 | NM_001271752 | **MAGEB5** | MAGE family member B5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347544 | gene-RPL18AP16 | **RPL18AP16** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347549 | NM_001355276 | **CENPVL3** | centromere protein V like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347584 | gene-TSPY11P | **TSPY11P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347613 | gene-PARP4P1 | **PARP4P1** | poly(ADP-ribose) polyme | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347674 | gene-LOC347674 | **LOC347674** | armadillo repeat containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347675 | gene-EIF2S2P5 | **EIF2S2P5** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347686 | NR_001294 | **SNORD64** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.999 |
| 347687 | gene-GNG5P2 | **GNG5P2** | G protein subunit gamm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347688 | NM_177987,XM_01 | **TUBB8** | tubulin beta 8 class VIII | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347689 | NR_004053,NR_07 | **SOX2-OT** | SOX2 overlapping transc | lncRNA | 3 | 2 | 4 | 3 | 0.888 |
| 347694 | NR_028501 | **ECEL1P2** | endothelin converting en | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 347702 | gene-MRPS36P4 | **MRPS36P4** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 347705 | gene-MRPS36P1 | **MRPS36P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 0.863 |
| 347716 | NR_146076 | **USP32P3** | ubiquitin specific peptida | transcribed_pseu | 1 | 1 | 2 | 2 | 0.885 |
| 347720 | gene-COTL1P2 | **COTL1P2** | COTL1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347730 | NM_178839,XM_01 | **LRRTM1** | leucine rich repeat transı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347731 | NM_178011,NR_11 | **LRRTM3** | leucine rich repeat transı | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347732 | NM_178019 | **CATSPER3** | cation channel sperm as | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 347733 | NM_178012 | **TUBB2B** | tubulin beta 2B class IIb | protein_coding | 1 | 1 | 2 | 2 | 1.023 |
| 347734 | NM_001286509,NM | **SLC35B2** | solute carrier family 35 m | protein_coding | 43 | 48 | 44 | 49 | 1.130 |
| 347735 | NM_001199037,NM | **SERINC2** | serine incorporator 2 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 347736 | NM_001349018,NM | **NME9** | NME/NM23 family memb | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347741 | NM_001272005,NM | **OTOP3** | otopetrin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347744 | NM_001145020,NM | **C6orf52** | chromosome 6 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.710 |
| 347745 | NR_022010 | **PWAR4** | Prader Willi/Angelman re | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 347746 | NR_022011 | **PWARSN** | Prader Willi/Angelman re | lncRNA | 1 | 1 | 2 | 2 | 0.659 |
| 347853 | NM_005995,XM_01 | **TBX10** | T-box transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 347862 | NM_001318818,NM | **GATD1** | glutamine amidotransfer | protein_coding | 42 | 39 | 43 | 40 | 0.928 |
| 347894 | gene-MRPL2P1 | **MRPL2P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 347902 | NM_001143668,NM | **AMIGO2** | adhesion molecule with I | protein_coding | 1 | 1 | 2 | 2 | 0.950 |
| 347918 | NR_003290 | **EP400P1** | EP400 pseudogene 1 | transcribed_pseu | 3 | 3 | 4 | 4 | 0.908 |
| 347933 | gene-NLRP9P1 | **NLRP9P1** | NLR family pyrin domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 348013 | NM_001348663,NM | **TMEM255B** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348021 | NR_026852 | **LINC00442** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 348093 | NM_194272,NR_13 | **RBPMS2** | RNA binding protein, mR | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348094 | NM_182703 | **ANKDD1A** | ankyrin repeat and death | protein_coding | 1 | 1 | 2 | 2 | 0.901 |
| 348110 | NM_001282380,NM | **ARPIN** | actin related protein 2/3 c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348120 | NR_040094 | **LINC01193** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 348156 | gene-PKD1P5 | **PKD1P5** | polycystin 1, transient re | pseudogene | 2 | 2 | 3 | 3 | 1.056 |
| 348158 | NM_001105069,NM | **ACSM2B** | acyl-CoA synthetase me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348174 | NM_001136214,NM | **CLEC18A** | C-type lectin domain fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348180 | NM_001012759,NM | **CTU2** | cytosolic thiouridylase su | protein_coding | 50 | 54 | 51 | 55 | 1.070 |
| 348235 | NM_001100595,NM | **SKA2** | spindle and kinetochore | protein_coding | 126 | 116 | 127 | 117 | 0.923 |
| 348249 | NR_027921,NR_02 | **CCL15-CCL14** | CCL15-CCL14 readthrou | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 348254 | NR_023380 | **CCDC144CP** | coiled-coil domain contai | transcribed_pseu | 0 | 0 | 1 | 1 | 0.921 |
| 348262 | NM_001093767,NM | **MCRIP1** | MAPK regulated corepre | protein_coding | 33 | 43 | 34 | 44 | 1.298 |
| 348303 | NM_001350809,NM | **SELENOV** | selenoprotein V | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348327 | NM_001321981,NM | **ZNF530** | zinc finger protein 530 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348378 | NM_001042693,NR | **SHISAL2A** | shisa like 2A | protein_coding | 6 | 7 | 7 | 8 | 1.189 |
| 348487 | NM_182623 | **FAM131C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348567 | gene-TERF1P1 | **TERF1P1** | TERF1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 348645 | NM_001289922,NR | **C22orf34** | chromosome 22 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348654 | NM_001130009,NM | **GEN1** | GEN1 Holliday junction 5 | protein_coding | 13 | 11 | 14 | 12 | 0.899 |
| 348751 | NM_001350853,NM | **FTCDNL1** | formiminotransferase cyc | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 348761 | NR_033879 | **SPATA3-AS1** | SPATA3 antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.837 |
| 348793 | NM_001345906,NM | **WDR53** | WD repeat domain 53 | protein_coding | 32 | 29 | 33 | 30 | 0.913 |
| 348801 | NM_001085451 | **LNP1** | leukemia NUP98 fusion p | protein_coding | 2 | 2 | 3 | 3 | 0.912 |
| 348807 | NM_182628,XM_00 | **CFAP100** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348808 | NR_002811,NR_15 | **NPHP3-AS1** | NPHP3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 348825 | NR_002223 | **TPRXL** | tetrapeptide repeat home | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 348840 | NR_003291 | **ANKRD18DP** | ankyrin repeat domain 18 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 348926 | NR_130740,NR_13 | **FAM86EP** | family with sequence sim | transcribed_pseu | 3 | 3 | 4 | 4 | 1.001 |
| 348932 | NM_182632 | **SLC6A18** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348938 | NM_001099287,NM | **NIPAL4** | NIPA like domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348958 | gene-LOC348958 | **LOC348958** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 348980 | NM_021072 | **HCN1** | hyperpolarization activate | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 348995 | NM_198887,NR_10 | **NUP43** | nucleoporin 43 | protein_coding | 45 | 40 | 46 | 41 | 0.898 |
| 349075 | NM_001366796,NM | **ZNF713** | zinc finger protein 713 | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 349114 | NR_026999 | **LINC00265** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.942 |
| 349136 | NM_001284260,NM | **WDR86** | WD repeat domain 86 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 349149 | NM_181538 | **GJC3** | gap junction protein gam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 349152 | NR_003561,NR_02 | **DPY19L2P2** | DPY19L2 pseudogene 2 | transcribed_pseu | 10 | 9 | 11 | 10 | 0.977 |
| 349158 | gene-CYCSP20 | **CYCSP20** | CYCS pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 349160 | NR_046103 | **LOC349160** | uncharacterized LOC349 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 349196 | NR_027000 | **LINC00965** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 349334 | NM_199244 | **FOXD4L4** | forkhead box D4 like 4 | protein_coding | 1 | 0 | 2 | 1 | 0.848 |
| 349372 | gene-NANOGP10 | **NANOGP10** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 349386 | gene-NANOGP9 | **NANOGP9** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 349391 | gene-CYCSP44 | **CYCSP44** | CYCS pseudogene 44 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 349408 | NR_030727 | **TLR8-AS1** | TLR8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 349565 | NM_001200047,NM | **NMNAT3** | nicotinamide nucleotide a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 349633 | NM_001145024 | **PLET1** | placenta expressed trans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 349667 | NM_178570 | **RTN4RL2** | reticulon 4 receptor like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 349814 | gene-VENTXP3 | **VENTXP3** | VENT homeobox pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 350383 | NM_001331076,NM | **GPR142** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 352290 | gene-MRPS23P1 | **MRPS23P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 352852 | gene-CYCSP45 | **CYCSP45** | CYCS pseudogene 45 | pseudogene | 0 | 0 | 1 | 1 | 0.894 |
| 352887 | NR_033667 | **GYG2P1** | glycogenin 2 pseudogen | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 352905 | gene-CTBP2P1 | **CTBP2P1** | CTBP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 352909 | NM_001256714,NM | **DNAAF3** | dynein axonemal assem | protein_coding | 1 | 1 | 2 | 2 | 1.008 |
| 352954 | NR_028038,NR_02 | **CASTOR3** | CASTOR family member | transcribed_pseu | 2 | 2 | 3 | 3 | 0.888 |
| 352961 | NR_002812 | **HCG26** | HLA complex group 26 | lncRNA | 6 | 6 | 7 | 7 | 0.955 |
| 352962 | NR_132323 | **HLA-V** | major histocompatibility c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 352990 | NR_031762 | **HCP5B** | HLA complex P5B | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 352999 | NM_001010905 | **C6orf58** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353000 | gene-HCGVIII-2 | **HCGVIII-2** | HCGVIII-2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.902 |
| 353007 | gene-LOC353007 | **LOC353007** | HLA complex group 26 (r | pseudogene | 0 | 0 | 1 | 1 | 1.188 |
| 353009 | gene-LOC353009 | **LOC353009** | HLA complex group 26 (r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353010 | gene-LOC353010 | **LOC353010** | HLA complex group 26 (r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353013 | gene-RPL7AP7 | **RPL7AP7** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353019 | gene-HCG9P5 | **HCG9P5** | HLA complex group 9 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353088 | NM_001001415,NM | **ZNF429** | zinc finger protein 429 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353091 | NM_001001788,NR | **RAET1G** | retinoic acid early transcr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353116 | NM_001319243,NM | **RILPL1** | Rab interacting lysosoma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353131 | NM_178348 | **LCE1A** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353132 | NM_178349 | **LCE1B** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353133 | NM_001276331,NM | **LCE1C** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353134 | NM_178352 | **LCE1D** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353135 | NM_178353 | **LCE1E** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353137 | NM_178354 | **LCE1F** | late cornified envelope 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353139 | NM_178428 | **LCE2A** | late cornified envelope 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353140 | NM_178429 | **LCE2C** | late cornified envelope 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353141 | NM_178430 | **LCE2D** | late cornified envelope 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353142 | NM_178431 | **LCE3A** | late cornified envelope 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353143 | NM_178433 | **LCE3B** | late cornified envelope 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353144 | NM_178434 | **LCE3C** | late cornified envelope 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353145 | NM_178435,XM_01 | **LCE3E** | late cornified envelope 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 353149 | NM_178571 | **TBC1D26** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 0.870 |
| 353163 | gene-CAP2P1 | **CAP2P1** | cyclase associated actin | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 353164 | NM_181429 | **TAS2R42** | taste 2 receptor member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353174 | NM_180990 | **ZACN** | zinc activated ion channe | protein_coding | 0 | 0 | 1 | 1 | 1.063 |
| 353189 | NM_180991,XM_01 | **SLCO4C1** | solute carrier organic ani | protein_coding | 3 | 3 | 4 | 4 | 0.968 |
| 353194 | gene-KRT16P6 | **KRT16P6** | keratin 16 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353196 | gene-KRT16P5 | **KRT16P5** | keratin 16 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353219 | NM_181337 | **KAAG1** | kidney associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353238 | NM_207421 | **PADI6** | peptidyl arginine deimina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353267 | gene-RAMACL | **RAMACL** | RNA guanine-7 methyltra | pseudogene | 13 | 14 | 14 | 15 | 1.042 |
| 353274 | NM_001369454,NM | **ZNF445** | zinc finger protein 445 | protein_coding | 7 | 6 | 8 | 7 | 0.886 |
| 353288 | NM_181539 | **KRT26** | keratin 26 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353299 | NM_001137669,NM | **RGSL1** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353322 | NM_181726,XM_01 | **ANKRD37** | ankyrin repeat domain 3 | protein_coding | 2 | 4 | 3 | 5 | 1.335 |
| 353323 | NM_181684 | **KRTAP12-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353324 | NM_181727,XM_02 | **SPATA12** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353329 | gene-PSIP1P1 | **PSIP1P1** | PC4 and SFRS1 interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 353332 | NM_181686 | **KRTAP12-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353333 | NM_181688 | **KRTAP10-10** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353345 | NM_001329993,NM | **GPR141** | G protein-coupled recep | protein_coding | 11 | 10 | 12 | 11 | 0.918 |
| 353355 | NM_001207005,NM | **ZNF233** | zinc finger protein 233 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353376 | NM_021649 | **TICAM2** | toll like receptor adaptor | protein_coding | 0 | 0 | 1 | 1 | 0.962 |
| 353497 | NM_181808 | **POLN** | DNA polymerase nu | protein_coding | 1 | 1 | 2 | 2 | 0.943 |
| 353500 | NM_181809,XM_00 | **BMP8A** | bone morphogenetic pro | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 353512 | gene-PKD1P4 | **PKD1P4** | polycystin 1, transient re | pseudogene | 3 | 3 | 4 | 4 | 0.914 |
| 353513 | NM_181880 | **VCY1B** | variable charge Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353514 | NM_021250,NM_18 | **LILRA5** | leukocyte immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 353515 | NM_001002906 | **XKRY2** | XK related, Y-linked 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 359710 | NM_001376932,NM | **BPIFB3** | BPI fold containing famil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 359736 | gene-MRPL15P1 | **MRPL15P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359737 | gene-MRPL20P1 | **MRPL20P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359739 | gene-MRPL3P1 | **MRPL3P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 359740 | gene-MRPL30P1 | **MRPL30P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359742 | gene-MRPL35P1 | **MRPL35P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359743 | gene-MRPL35P2 | **MRPL35P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359744 | gene-MRPL35P3 | **MRPL35P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 0.902 |
| 359745 | gene-MRPL35P4 | **MRPL35P4** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359747 | gene-MRPL45P1 | **MRPL45P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359749 | gene-MRPL50P2 | **MRPL50P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.069 |
| 359750 | gene-MRPL50P3 | **MRPL50P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359751 | gene-MRPL50P4 | **MRPL50P4** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359754 | gene-MRPS10P5 | **MRPS10P5** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359757 | gene-MRPS17P3 | **MRPS17P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359760 | gene-MRPS17P9 | **MRPS17P9** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359762 | gene-MRPS18BP1 | **MRPS18BP1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359763 | gene-MRPS18BP2 | **MRPS18BP2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359766 | gene-MRPS21P2 | **MRPS21P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359767 | gene-MRPS21P3 | **MRPS21P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359770 | gene-MRPS21P6 | **MRPS21P6** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359774 | gene-DAP3P2 | **DAP3P2** | death associated protein | pseudogene | 1 | 2 | 2 | 3 | 1.343 |
| 359775 | gene-MRPS33P2 | **MRPS33P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359776 | gene-MRPS33P3 | **MRPS33P3** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359781 | gene-MRPS6P2 | **MRPS6P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359787 | NM_199286 | **DPPA3** | developmental pluripoter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 359792 | gene-EIF4A1P2 | **EIF4A1P2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 359793 | gene-AGKP1 | **AGKP1** | acylglycerol kinase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359794 | gene-TUSC2P1 | **TUSC2P1** | TUSC2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359798 | gene-UBE2V1P3 | **UBE2V1P3** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359799 | gene-USP12PY | **USP12PY** | USP12 pseudogene Y-lir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359800 | gene-VDAC1P6 | **VDAC1P6** | voltage dependent anion | pseudogene | 2 | 2 | 3 | 3 | 1.144 |
| 359803 | gene-MRPS17P1 | **MRPS17P1** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359806 | NR_028270 | **PCNAP1** | proliferating cell nuclear | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 359809 | NR_144431 | **PEG13** | paternally expressed 13 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 359817 | gene-MRPL30P2 | **MRPL30P2** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359819 | gene-LOC359819 | **LOC359819** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359821 | NR_002208 | **MRPL42P5** | mitochondrial ribosomal | transcribed_pseu | 0 | 0 | 1 | 1 | 1.007 |
| 359822 | NR_002813 | **KCNIP4-IT1** | KCNIP4 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 359844 | gene-PRDX2P1 | **PRDX2P1** | peroxiredoxin 2 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359845 | NM_182705 | **RFLNB** | refilin B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 359948 | NM_001077397,NM | **IRF2BP2** | interferon regulatory fact | protein_coding | 26 | 24 | 27 | 25 | 0.924 |
| 359996 | gene-SERBP1P2 | **SERBP1P2** | SERPINE1 mRNA bindin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 359997 | gene-ATP5PFP1 | **ATP5PFP1** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360001 | gene-IFNWP18 | **IFNWP18** | interferon omega 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360009 | gene-CYCSP49 | **CYCSP49** | CYCS pseudogene 49 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360015 | gene-RFTN1P1 | **RFTN1P1** | raftlin, lipid raft linker 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360018 | gene-PRRC2CP1 | **PRRC2CP1** | proline rich coiled-coil 2C | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360019 | gene-KRT18P10 | **KRT18P10** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360022 | gene-PSIP1P2 | **PSIP1P2** | PC4 and SFRS1 interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360023 | NM_194314,NR_13 | **ZBTB41** | zinc finger and BTB dom | protein_coding | 3 | 2 | 4 | 3 | 0.796 |
| 360028 | gene-TMEM167AP1 | **TMEM167AP1** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360030 | NM_001145465 | **NANOGNB** | NANOG neighbor homec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360132 | NR_003949,NR_02 | **FKBP9P1** | FKBP prolyl isomerase 9 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 360155 | NR_001560 | **CYCSP52** | CYCS pseudogene 52 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 360157 | gene-CYCSP4 | **CYCSP4** | CYCS pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360159 | gene-CYCSP6 | **CYCSP6** | CYCS pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360160 | gene-CYCSP8 | **CYCSP8** | CYCS pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360165 | gene-NDUFA4P1 | **NDUFA4P1** | NDUFA4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.921 |
| 360166 | gene-CYCSP10 | **CYCSP10** | CYCS pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360167 | gene-CYCSP11 | **CYCSP11** | CYCS pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360168 | gene-CYCSP12 | **CYCSP12** | CYCS pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360172 | gene-CYCSP17 | **CYCSP17** | CYCS pseudogene 17 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360174 | gene-CYCSP19 | **CYCSP19** | CYCS pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360175 | gene-CYCSP22 | **CYCSP22** | CYCS pseudogene 22 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360177 | gene-CYCSP24 | **CYCSP24** | CYCS pseudogene 24 | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 360178 | gene-CYCSP26 | **CYCSP26** | CYCS pseudogene 26 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360179 | gene-CYCSP28 | **CYCSP28** | CYCS pseudogene 28 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360180 | gene-CYCSP29 | **CYCSP29** | CYCS pseudogene 29 | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 360181 | gene-CYCSP32 | **CYCSP32** | CYCS pseudogene 32 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360182 | gene-CYCSP34 | **CYCSP34** | CYCS pseudogene 34 | pseudogene | 0 | 0 | 1 | 1 | 1.074 |
| 360184 | gene-CYCSP38 | **CYCSP38** | CYCS pseudogene 38 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360187 | gene-CYCSP43 | **CYCSP43** | CYCS pseudogene 43 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 360200 | NM_182973,XM_01 | **TMPRSS9** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360203 | NM_182974,XM_01 | **GLT6D1** | glycosyltransferase 6 do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360205 | NM_001282275,NM | **PRAC2** | PRAC2 small nuclear pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360226 | NM_001354586 | **PRSS41** | serine protease 41 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 360227 | gene-OTUD4P1 | **OTUD4P1** | OTUD4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 373156 | NM_001143679,NM | **GSTK1** | glutathione S-transferas | protein_coding | 171 | 168 | 172 | 169 | 0.984 |
| 373159 | gene-STK19B | **STK19B** | serine/threonine kinase 1 | pseudogene | 3 | 2 | 4 | 3 | 0.712 |
| 373509 | NM_203494,XR_00 | **USP50** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.093 |
| 373856 | XM_017029164 | **USP41** | ubiquitin specific peptida | protein_coding | 3 | 2 | 4 | 3 | 0.960 |
| 373861 | NR_024192,NR_02 | **H1-9P** | H1.9 linker histone, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 373863 | NM_194249 | **DND1** | DND microRNA-mediate | protein_coding | 2 | 2 | 3 | 3 | 0.982 |
| 374286 | NM_001282540,NM | **CDRT1** | CMT1A duplicated regior | protein_coding | 0 | 0 | 1 | 1 | 1.067 |
| 374291 | NM_001363602,NM | **NDUFS7** | NADH:ubiquinone oxidor | protein_coding | 168 | 186 | 169 | 187 | 1.102 |
| 374308 | NM_001034842 | **PTCHD3** | patched domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374354 | NM_198514,XM_01 | **NHLRC2** | NHL repeat containing 2 | protein_coding | 7 | 6 | 8 | 7 | 0.799 |
| 374355 | NM_198515,XM_00 | **CCDC172** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374378 | NM_001363464,NM | **GALNT18** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374383 | NM_001202439,XM | **NCR3LG1** | natural killer cell cytotoxi | protein_coding | 3 | 3 | 4 | 4 | 0.891 |
| 374387 | NR_027134 | **LINC02716** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 374393 | NM_001142703,NM | **FAM111B** | family with sequence sir | protein_coding | 36 | 35 | 37 | 36 | 0.963 |
| 374395 | NM_001363599,NM | **TMEM179B** | transmembrane protein 1 | protein_coding | 46 | 44 | 47 | 45 | 0.959 |
| 374403 | NM_001256508,NM | **TBC1D10C** | TBC1 domain family mer | protein_coding | 99 | 113 | 100 | 114 | 1.139 |
| 374407 | NM_001377263,NM | **DNAJB13** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.120 |
| 374443 | NR_002814,NR_04 | **LOC374443** | C-type lectin domain fam | transcribed_pseu | 12 | 12 | 13 | 13 | 1.045 |
| 374454 | NM_175078,XM_01 | **KRT77** | keratin 77 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 374462 | NM_001145026,XM_ | **PTPRQ** | protein tyrosine phospha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374470 | NM_001099336,NM | **C12orf42** | chromosome 12 open re | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 374491 | NR_002815 | **TPTE2P6** | transmembrane phosph | transcribed_pseu | 0 | 0 | 1 | 1 | 1.129 |
| 374500 | gene-THSD1P1 | **THSD1P1** | thrombospondin type 1 d | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 374569 | NM_001080464,XM_ | **ASPG** | asparaginase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374618 | NM_001286449,NM | **TEX9** | testis expressed 9 | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 374650 | NR_003246 | **GOLGA6L5P** | golgin A6 family like 5, p | transcribed_pseu | 1 | 0 | 2 | 1 | 0.881 |
| 374654 | NM_198525,XM_01 | **KIF7** | kinesin family member 7 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 374655 | NM_198526,XM_00 | **ZNF710** | zinc finger protein 710 | protein_coding | 14 | 16 | 15 | 17 | 1.093 |
| 374659 | NM_001286451,NM | **HDDC3** | HD domain containing 3 | protein_coding | 27 | 35 | 28 | 36 | 1.310 |
| 374666 | NR_003659 | **WASH3P** | WASP family homolog 3, | transcribed_pseu | 6 | 6 | 7 | 7 | 1.091 |
| 374677 | gene-WASH4P | **WASH4P** | WASP family homolog 4, | pseudogene | 3 | 3 | 4 | 4 | 1.082 |
| 374739 | NM_199046,NM_19 | **TEPP** | testis, prostate and place | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374768 | NM_199339 | **SPEM1** | spermatid maturation 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374786 | NM_001145053,NM | **EFCAB5** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 1.172 |
| 374819 | NM_001303255,NM | **LRRC37A3** | leucine rich repeat conta | protein_coding | 1 | 1 | 2 | 2 | 0.965 |
| 374860 | NM_001367607,NR_ | **ANKRD30B** | ankyrin repeat domain 3( | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 374864 | NM_001105528,NM | **CCDC178** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374868 | NM_001306085,NM | **ATP9B** | ATPase phospholipid tra | protein_coding | 5 | 5 | 6 | 6 | 0.981 |
| 374872 | NM_198532 | **PEAK3** | PEAK family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374875 | NM_001267868,NM | **HSD11B1L** | hydroxysteroid 11-beta d | protein_coding | 0 | 0 | 1 | 1 | 1.254 |
| 374877 | NM_198534 | **TEX45** | testis expressed 45 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374879 | NM_198535 | **ZNF699** | zinc finger protein 699 | protein_coding | 3 | 2 | 4 | 3 | 0.902 |
| 374882 | NM_001145416,NM | **TMEM205** | transmembrane protein 2 | protein_coding | 106 | 104 | 107 | 105 | 0.986 |
| 374887 | NM_001190328,NM | **YJEFN3** | YjeF N-terminal domain ( | protein_coding | 4 | 5 | 5 | 6 | 1.282 |
| 374890 | NR_135233 | **LINC01785** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 374897 | NM_001166034,NM | **SBSN** | suprabasin | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 374899 | NM_001037232,NM | **ZNF829** | zinc finger protein 829 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374900 | NM_001204835,NM | **ZNF568** | zinc finger protein 568 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374907 | NM_198540,XM_01 | **B3GNT8** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 374918 | NM_198541 | **IGFL1** | IGF like family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374920 | NM_199341,XM_00 | **ZSWIM9** | zinc finger SWIM-type cc | protein_coding | 13 | 12 | 14 | 13 | 0.941 |
| 374928 | NM_001304334,NM | **ZNF773** | zinc finger protein 773 | protein_coding | 16 | 17 | 17 | 18 | 1.029 |
| 374946 | NM_198545,XM_01 | **DRAXIN** | dorsal inhibitory axon gu | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 374955 | NM_001353349,NM | **SPATA21** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 374969 | NM_199342,XM_01 | **SVBP** | small vasohibin binding p | protein_coding | 18 | 18 | 19 | 19 | 1.002 |
| 374973 | NM_001145474,NM | **TEX38** | testis expressed 38 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374977 | NM_001039464,NM | **MROH7** | maestro heat like repeat | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 374986 | NM_001270384,NM | **MIGA1** | mitoguardin 1 | protein_coding | 4 | 3 | 5 | 4 | 0.859 |
| 374987 | NR_103535 | **NEXN-AS1** | NEXN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 375033 | NM_001080471,NM | **PEAR1** | platelet endothelial aggr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375035 | NM_199344 | **SFT2D2** | SFT2 domain containing | protein_coding | 33 | 29 | 34 | 30 | 0.896 |
| 375056 | NM_001300867,NM | **MIA3** | MIA SH3 domain ER exp | protein_coding | 16 | 13 | 17 | 14 | 0.825 |
| 375057 | NM_001003665,XM | **STUM** | stum, mechanosensory t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375061 | NM_198552 | **FAM89A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375133 | NR_003700 | **PI4KAP2** | phosphatidylinositol 4-kir | transcribed_pseu | 5 | 5 | 6 | 6 | 0.972 |
| 375189 | NM_199346,XM_00 | **PFN4** | profilin family member 4 | protein_coding | 2 | 1 | 3 | 2 | 0.830 |
| 375190 | NM_001145710,NM | **FAM228B** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 0.986 |
| 375196 | NR_028386 | **LOC375196** | uncharacterized LOC375 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 375248 | NM_001354587,NM | **ANKRD36** | ankyrin repeat domain 3( | protein_coding | 4 | 2 | 5 | 3 | 0.742 |
| 375260 | NR_024077 | **WASH2P** | WASP family homolog 2, | transcribed_pseu | 6 | 6 | 7 | 7 | 1.007 |
| 375287 | NM_198557 | **RBM43** | RNA binding motif protei | protein_coding | 6 | 5 | 7 | 6 | 0.780 |
| 375295 | NR_040001 | **LINC01116** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 375298 | NM_001030311,NM | **CERKL** | ceramide kinase like | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 375307 | NM_001320865,NM | **CATIP** | ciliogenesis associated T | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375316 | NM_001080504,XM | **RBM44** | RNA binding motif protei | protein_coding | 1 | 1 | 2 | 2 | 0.826 |
| 375318 | NM_198998 | **AQP12A** | aquaporin 12A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375323 | NM_198560,XM_01 | **LHFPL4** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375337 | NM_001145030,XM | **TOPAZ1** | testis and ovary specific | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375341 | NM_198562 | **C3orf62** | chromosome 3 open rea | protein_coding | 7 | 8 | 8 | 9 | 1.059 |
| 375346 | NM_198563 | **STIMATE** | STIM activating enhance | protein_coding | 22 | 20 | 23 | 21 | 0.922 |
| 375350 | gene-COPS8P2 | **COPS8P2** | COP9 signalosome subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 375387 | NM_198565 | **NRROS** | negative regulator of rea | protein_coding | 133 | 129 | 134 | 130 | 0.977 |
| 375444 | NM_198566,XM_01 | **C5orf34** | chromosome 5 open rea | protein_coding | 9 | 7 | 10 | 8 | 0.850 |
| 375449 | NM_001164664,NM | **MAST4** | microtubule associated s | protein_coding | 3 | 3 | 4 | 4 | 0.885 |
| 375484 | NM_001308195,NM | **SIMC1** | SUMO interacting motifs | protein_coding | 4 | 5 | 5 | 6 | 1.078 |
| 375513 | NR_132999,NR_13 | **GUSBP4** | GUSB pseudogene 4 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.031 |
| 375519 | NM_198568,XM_00 | **GJB7** | gap junction protein beta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375567 | NM_198570,NR_13 | **VWC2** | von Willebrand factor C ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375593 | NM_198924 | **TRIM73** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 0.972 |
| 375607 | NM_001369694,NM | **NAT16** | N-acetyltransferase 16 (p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375611 | NM_001167962,NM | **SLC26A5** | solute carrier family 26 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375612 | NM_199000,XM_00 | **LHFPL3** | LHFPL tetraspan subfam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375616 | NM_001366122,NM | **KCP** | kielin cysteine rich BMP ( | protein_coding | 1 | 1 | 2 | 2 | 1.035 |
| 375686 | NM_001134374,NM | **SPATC1** | spermatogenesis and ce | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375690 | NR_033266 | **WASH5P** | WASP family homolog 5, | transcribed_pseu | 2 | 2 | 3 | 3 | 0.990 |
| 375704 | NM_198573 | **ENHO** | energy homeostasis ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375719 | NR_002817 | **AQP7P1** | aquaporin 7 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.107 |
| 375743 | NM_001099666,NM | **PTAR1** | protein prenyltransferase | protein_coding | 16 | 13 | 17 | 14 | 0.787 |
| 375748 | NM_001010895,NM | **ERCC6L2** | ERCC excision repair 6 li | protein_coding | 5 | 4 | 6 | 5 | 0.757 |
| 375757 | NM_001040011,NM | **SWI5** | SWI5 homologous recon | protein_coding | 35 | 39 | 36 | 40 | 1.100 |
| 375759 | NM_199350,XM_01 | **C9orf50** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 375775 | NM_001098537,NM | **PNPLA7** | patatin like phospholipas | protein_coding | 0 | 0 | 1 | 1 | 0.902 |
| 375790 | NM_001305275,NM | **AGRN** | agrin | protein_coding | 0 | 0 | 1 | 1 | 1.085 |
| 375791 | NM_199001 | **CYSRT1** | cysteine rich tail 1 | protein_coding | 0 | 0 | 1 | 1 | 0.832 |
| 375940 | NR_003570 | **DMBT1L1** | deleted in malignant brai | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 376132 | NM_201550 | **LRRC10** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 376267 | NM_001308154,NM | **RAB15** | RAB15, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 376412 | NR_002818 | **RNF126P1** | ring finger protein 126 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 376497 | NM_198580,XM_01 | **SLC27A1** | solute carrier family 27 m | protein_coding | 0 | 0 | 1 | 1 | 0.893 |
| 376693 | NR_026667 | **RPS10P7** | ribosomal protein S10 ps | transcribed_pseu | 2 | 3 | 3 | 4 | 1.306 |
| 376818 | gene-E2F6P2 | **E2F6P2** | E2F transcription factor 6 | pseudogene | 1 | 1 | 2 | 2 | 0.968 |
| 376844 | NR_001580 | **SDC4P** | syndecan 4 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 376940 | NM_198581,XM_00 | **ZC3H6** | zinc finger CCCH-type cc | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 377007 | NM_198582 | **KLHL30** | kelch like family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 377047 | NR_160553 | **PRSS45P** | serine protease 45, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 377630 | NM_201402 | **USP17L2** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 377677 | NM_198584 | **CA13** | carbonic anhydrase 13 | protein_coding | 2 | 2 | 3 | 3 | 0.923 |
| 377841 | NM_001033113,NM | **ENTPD8** | ectonucleoside triphosph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 377997 | gene-TSPY12P | **TSPY12P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 378001 | gene-TSPY13P | **TSPY13P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 378108 | NM_001317815,NM | **TRIM74** | tripartite motif containing | protein_coding | 27 | 22 | 28 | 23 | 0.809 |
| 378706 | NR_027260 | **RN7SL2** | RNA component of signa | scRNA | 23 | 11 | 24 | 12 | 0.527 |
| 378707 | NR_145670 | **RN7SL3** | RNA component of signa | scRNA | 1 | 1 | 2 | 2 | 0.905 |
| 378708 | NM_199294,NR_03 | **CENPS** | centromere protein S | protein_coding | 46 | 51 | 47 | 52 | 1.097 |
| 378805 | NR_015431,NR_02 | **LINC-PINT** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 0.975 |
| 378807 | NM_198137,XM_01 | **CATSPER4** | cation channel sperm as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378818 | gene-RPL37P3 | **RPL37P3** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 378825 | NR_024089 | **PICSAR** | P38 inhibited cutaneous | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 378828 | NR_038872 | **LINC00317** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 378832 | NR_027498,NR_02 | **COL18A1-AS1** | COL18A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 378881 | NR_104192 | **MIR381HG** | MIR381 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 378884 | NM_198586 | **NHLRC1** | NHL repeat containing E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378925 | NM_198085 | **RNF148** | ring finger protein 148 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378938 | NR_002819,NR_14 | **MALAT1** | metastasis associated lu | lncRNA | 11 | 9 | 12 | 10 | 0.834 |
| 378948 | NM_001006121,NM | **RBMY1B** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378949 | NM_001006120,NM | **RBMY1D** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378950 | NM_001006118,XM | **RBMY1E** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378951 | NM_001006117,XM | **RBMY1J** | RNA binding motif protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 378953 | gene-RBMY2HP | **RBMY2HP** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 379006 | gene-RBMY2QP | **RBMY2QP** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 379013 | NR_001575 | **RNF138P1** | ring finger protein 138 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.005 |
| 379025 | NR_029434,NR_02 | **PSMA3-AS1** | PSMA3 antisense RNA 1 | lncRNA | 22 | 18 | 23 | 19 | 0.834 |
| 379027 | gene-TSPY5P | **TSPY5P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 379034 | NR_145429 | **LINC01181** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 386593 | NR_027928 | **CHKB-CPT1B** | CHKB-CPT1B readthrou | lncRNA | 7 | 7 | 8 | 8 | 1.076 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 386597 | NR_033997 | **GRASLND** | glycosaminoglycan regul | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 386607 | NR_024091 | **ZFP91-CNTF** | ZFP91-CNTF readthroug | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 386608 | gene-RNASEH2CP1 | **RNASEH2CP1** | ribonuclease H2 subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 386610 | gene-E2F6P1 | **E2F6P1** | E2F transcription factor 6 | pseudogene | 2 | 1 | 3 | 2 | 0.848 |
| 386617 | NM_198353,XM_01 | **KCTD8** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386618 | NM_198404 | **KCTD4** | potassium channel tetrar | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386627 | NR_037897 | **SAP30L-AS1** | SAP30L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.103 |
| 386653 | NM_001014336 | **IL31** | interleukin 31 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386654 | gene-OSTF1P1 | **OSTF1P1** | osteoclast stimulating fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 386665 | gene-AURKAP2 | **AURKAP2** | aurora kinase A pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 386672 | NM_198687 | **KRTAP10-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386674 | NM_198688 | **KRTAP10-6** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386675 | NM_198689 | **KRTAP10-7** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386676 | NM_198690 | **KRTAP10-9** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386677 | NM_198691 | **KRTAP10-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386678 | NM_198692 | **KRTAP10-11** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386679 | NM_198693,NR_13 | **KRTAP10-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386680 | NM_198694 | **KRTAP10-5** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386681 | NM_198695 | **KRTAP10-8** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386682 | NM_198696 | **KRTAP10-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386683 | NM_198697 | **KRTAP12-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386684 | NM_198698 | **KRTAP12-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386685 | NM_198699 | **KRTAP10-12** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386724 | NM_198722 | **AMIGO3** | adhesion molecule with I | protein_coding | 9 | 8 | 10 | 9 | 0.912 |
| 386726 | gene-FAM8A4P | **FAM8A4P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 386746 | NM_001164377 | **MRGPRG** | MAS related GPR family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 386757 | NR_003083 | **SLC6A10P** | solute carrier family 6 me | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 386758 | NR_037159,NR_03 | **ZNF582-AS1** | ZNF582 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387032 | NM_001304506,NM | **ZKSCAN4** | zinc finger with KRAB an | protein_coding | 6 | 6 | 7 | 7 | 0.912 |
| 387036 | NR_003504 | **GUSBP2** | GUSB pseudogene 2 | transcribed_pseu | 2 | 3 | 3 | 4 | 1.066 |
| 387043 | gene-RPL13AP | **RPL13AP** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387044 | gene-RPL13P | **RPL13P** | ribosomal protein L13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387055 | NR_135285 | **LINC00533** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387065 | NR_037938 | **HMGA1P7** | high mobility group AT-h | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 387066 | NR_003038 | **SNHG5** | small nucleolar RNA hos | lncRNA | 484 | 497 | 485 | 498 | 1.027 |
| 387071 | gene-FAM136BP | **FAM136BP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387082 | NM_001002255 | **SUMO4** | small ubiquitin like modif | protein_coding | 0 | 0 | 1 | 1 | 1.343 |
| 387090 | gene-RPL36AP5 | **RPL36AP5** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387101 | gene-RPL29P4 | **RPL29P4** | ribosomal protein L29 ps | pseudogene | 13 | 17 | 14 | 18 | 1.350 |
| 387103 | NM_001012507,NM | **CENPW** | centromere protein W | protein_coding | 54 | 43 | 55 | 44 | 0.802 |
| 387104 | NM_001012279 | **SOGA3** | SOGA family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 387107 | gene-ATP5MFP2 | **ATP5MFP2** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 0.847 |
| 387111 | NR_033376 | **LINC00222** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387119 | NM_001042475,NM | **CEP85L** | centrosomal protein 85 li | protein_coding | 7 | 6 | 8 | 7 | 0.879 |
| 387122 | gene-WASF5P | **WASF5P** | WASP family member 5, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387129 | NM_001300933,NM | **NPSR1** | neuropeptide S receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387254 | NR_002594 | **SLC7A5P2** | solute carrier family 7 me | transcribed_pseu | 4 | 4 | 5 | 5 | 0.946 |
| 387263 | NM_001029863,NM | **C6orf120** | chromosome 6 open rea | protein_coding | 19 | 17 | 20 | 18 | 0.921 |
| 387264 | NM_001005922 | **KRTAP5-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387266 | NM_001012708 | **KRTAP5-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387267 | NM_001347674 | **KRTAP5-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387273 | NM_001012710 | **KRTAP5-10** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387316 | NR_045612 | **VN1R10P** | vomeronasal 1 receptor 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 387319 | NR_045125 | **H2AC2P** | H2A clustered histone 2, | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 387328 | gene-ZNF322P1 | **ZNF322P1** | zinc finger protein 322 p | pseudogene | 4 | 3 | 5 | 4 | 0.820 |
| 387332 | NM_199047 | **TBPL2** | TATA-box binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387338 | NM_001256127,NM | **NSUN4** | NOP2/Sun RNA methyltr | protein_coding | 10 | 10 | 11 | 11 | 0.985 |
| 387357 | NM_001010923,NM | **THEMIS** | thymocyte selection assc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387486 | NR_024090,NR_10 | **LINC00320** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387492 | gene-DSTNP1 | **DSTNP1** | DSTN pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.964 |
| 387496 | NM_001331126,NM | **RASL11A** | RAS like family 11 memb | protein_coding | 0 | 0 | 1 | 1 | 0.953 |
| 387509 | NM_207370,XM_01 | **GPR153** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 387521 | NM_001162505,NM | **TMEM189** | transmembrane protein 1 | protein_coding | 23 | 22 | 24 | 23 | 0.941 |
| 387522 | NM_199203 | **TMEM189-UBE2V1** | TMEM189-UBE2V1 readt | protein_coding | 0 | 0 | 1 | 1 | 1.160 |
| 387553 | gene-DNM1P18 | **DNM1P18** | dynamin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387554 | gene-DNM1P19 | **DNM1P19** | dynamin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387559 | gene-FGF7P1 | **FGF7P1** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387590 | NR_001591 | **TPTEP1** | TPTE pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 387597 | NM_199351,XM_00 | **ILDR2** | immunoglobulin like dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387601 | NM_199352,XM_01 | **SLC22A25** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387628 | NR_003674,NR_04 | **FGF7P6** | fibroblast growth factor 7 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.169 |
| 387640 | NM_207371,XM_00 | **SKIDA1** | SKI/DACH domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387644 | NR_026795 | **FAM238C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387646 | NR_003525 | **LRRC37A6P** | leucine rich repeat conta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 387680 | NM_001005751,NM | **WASHC2A** | WASH complex subunit 2 | protein_coding | 8 | 7 | 9 | 8 | 0.853 |
| 387684 | gene-ARL4AP1 | **ARL4AP1** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387694 | NM_001145719,NM | **SH2D4B** | SH2 domain containing 4 | protein_coding | 0 | 0 | 1 | 1 | 0.965 |
| 387695 | NM_207373,XM_00 | **C10orf99** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387700 | NM_213606,XM_01 | **SLC16A12** | solute carrier family 16 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387703 | gene-XRCC6P1 | **XRCC6P1** | X-ray repair cross compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387707 | NM_001001732,NM | **CC2D2B** | coiled-coil and C2 domai | protein_coding | 0 | 0 | 1 | 1 | 0.991 |
| 387712 | NM_001242699,XM | **ENO4** | enolase 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387715 | NM_001099667 | **ARMS2** | age-related maculopathy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387718 | NM_001128202,NM | **TEX36** | testis expressed 36 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387723 | NM_001355042,NR | **C10orf143** | chromosome 10 open rea | protein_coding | 2 | 2 | 3 | 3 | 1.080 |
| 387733 | NM_001025295 | **IFITM5** | interferon induced transr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387742 | NR_026643 | **FAM99A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387745 | gene-FAM86GP | **FAM86GP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387748 | NM_001005180 | **OR56B1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387751 | NR_003945 | **GVINP1** | GTPase, very large interf | transcribed_pseu | 16 | 11 | 17 | 12 | 0.690 |
| 387753 | gene-RPL21P97 | **RPL21P97** | ribosomal protein L21 ps | pseudogene | 4 | 3 | 5 | 4 | 0.812 |
| 387755 | NM_001031853,NM | **INSC** | INSC spindle orientation | protein_coding | 1 | 0 | 2 | 1 | 0.758 |
| 387758 | NM_203371 | **FIBIN** | fin bud initiation factor ho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387763 | NM_001145033 | **C11orf96** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387775 | NM_001039752,NR | **SLC22A10** | solute carrier family 22 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387778 | NM_001008778,XM | **SPDYC** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387787 | NM_001144869,NM | **LIPT2** | lipoyl(octanoyl) transfera | protein_coding | 3 | 2 | 4 | 3 | 0.881 |
| 387804 | NM_001144871,XR | **VSTM5** | V-set and transmembran | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387810 | NR_104155 | **LINC02764** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387836 | NM_001130711,NM | **CLEC2A** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387837 | NM_001129998,NM | **CLEC12B** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 0.906 |
| 387841 | NR_003932 | **RPL13AP20** | ribosomal protein L13a p | transcribed_pseu | 1 | 2 | 2 | 3 | 1.282 |
| 387845 | gene-EEF1A1P16 | **EEF1A1P16** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.849 |
| 387849 | NM_001029874 | **REP15** | RAB15 effector protein | protein_coding | 0 | 1 | 1 | 2 | 1.272 |
| 387856 | NM_001013635 | **CCDC184** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.064 |
| 387867 | gene-RPSAP12 | **RPSAP12** | ribosomal protein SA pse | pseudogene | 14 | 17 | 15 | 18 | 1.191 |
| 387869 | gene-LOC387869 | **LOC387869** | microtubule associated p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 387882 | NM_001145199 | **C12orf75** | chromosome 12 open rea | protein_coding | 309 | 307 | 310 | 308 | 0.992 |
| 387885 | NM_001144872,XM | **CFAP73** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387890 | NM_001136534,XM | **TMEM233** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387893 | NM_001324504,NM | **KMT5A** | lysine methyltransferase | protein_coding | 37 | 38 | 38 | 39 | 1.021 |
| 387895 | NR_033878 | **LINC00944** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387911 | NM_001007537,NR | **C1QTNF9B** | C1q and TNF related 9B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387914 | NM_001007538 | **SHISA2** | shisa family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.049 |
| 387921 | NM_001012754,NM | **NHLRC3** | NHL repeat containing 3 | protein_coding | 29 | 25 | 30 | 26 | 0.853 |
| 387923 | NM_001010897,NM | **SERP2** | stress associated endopl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 387924 | gene-OGFOD1P1 | **OGFOD1P1** | 2-oxoglutarate and iron c | pseudogene | 0 | 0 | 1 | 1 | 1.040 |
| 387933 | gene-HNRNPA3P5 | **HNRNPA3P5** | heterogeneous nuclear r | pseudogene | 1 | 2 | 2 | 3 | 1.492 |
| 387934 | gene-FABP5P1 | **FABP5P1** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 0.946 |
| 387978 | NR_026731,NR_02 | **LINC01551** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 387990 | NM_207377,XM_01 | **TOMM20L** | translocase of outer mito | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388007 | NR_015340 | **SERPINA13P** | serpin family A member 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388011 | NR_015430,NR_15 | **LINC01550** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388015 | NM_001134888 | **RTL1** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388021 | NM_001286389,NM | **TMEM179** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388076 | gene-RPS8P10 | **RPS8P10** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 0.991 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 388077 | NR_135694 | **IGHV1OR15-1** | immunoglobulin heavy v | transcribed_pseu | 0 | 0 | 1 | 1 | 1.090 |
| 388104 | gene-LOC388104 | **LOC388104** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 388112 | NM_001355281 | **NANOGP8** | Nanog homeobox retrog | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388115 | NM_207380 | **CCDC9B** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 388121 | NM_001311175,NM | **TNFAIP8L3** | TNF alpha induced prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388122 | gene-RPSAP55 | **RPSAP55** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388125 | NM_001007595,XM | **C2CD4B** | C2 calcium dependent d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388132 | gene-RPL17P5 | **RPL17P5** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 388135 | NM_001039614,NM | **INSYN1** | inhibitory synaptic factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388152 | NR_027001 | **GOLGA2P7** | GOLGA2 pseudogene 7 | transcribed_pseu | 11 | 11 | 12 | 12 | 1.063 |
| 388165 | NR_003661 | **UBE2Q2P1** | ubiquitin conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 0.793 |
| 388181 | gene-FAM149B1P1 | **FAM149B1P1** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 0.946 |
| 388182 | NR_028139,NR_02 | **SPATA41** | spermatogenesis associa | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388199 | NM_001013638 | **PRR25** | proline rich 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388228 | NM_001024401,XM | **SBK1** | SH3 domain binding kina | protein_coding | 13 | 17 | 14 | 18 | 1.245 |
| 388242 | NR_002556 | **LOC388242** | SAGA complex associate | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388248 | gene-LOC388248 | **LOC388248** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388254 | gene-HERC2P5 | **HERC2P5** | hect domain and RLD 2 | pseudogene | 0 | 0 | 1 | 1 | 0.977 |
| 388255 | id-IGHV3OR16-8 | **IGHV3OR16-8** | immunoglobulin heavy v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 388272 | NM_001001436,NM | **C16orf87** | chromosome 16 open re | protein_coding | 6 | 5 | 7 | 6 | 0.935 |
| 388275 | gene-HNRNPA1P7 | **HNRNPA1P7** | heterogeneous nuclear r | pseudogene | 51 | 51 | 52 | 52 | 0.999 |
| 388282 | NM_001278081,XM | **LOC388282** | uncharacterized LOC388 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388284 | NM_001012984,XM | **C16orf86** | chromosome 16 open re | protein_coding | 0 | 0 | 1 | 1 | 1.118 |
| 388323 | NM_001014985,NM | **GLTPD2** | glycolipid transfer protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388324 | NM_001167985,NM | **INCA1** | inhibitor of CDK, cyclin A | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 388325 | NM_001271842,NM | **SCIMP** | SLP adaptor and CSK in | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388327 | NM_001105520 | **C17orf100** | chromosome 17 open re | protein_coding | 0 | 0 | 1 | 1 | 0.763 |
| 388333 | NM_001128076,XM | **SPDYE4** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388335 | NM_001004313,NM | **TMEM220** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388336 | NM_001173461,NM | **SHISA6** | shisa family member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388339 | gene-RPS18P12 | **RPS18P12** | ribosomal protein S18 ps | pseudogene | 1 | 1 | 2 | 2 | 0.831 |
| 388341 | NM_001113567,NM | **LRRC75A** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 388344 | gene-RPL13P12 | **RPL13P12** | ribosomal protein L13 ps | pseudogene | 69 | 82 | 70 | 83 | 1.182 |
| 388363 | gene-RPS7P1 | **RPS7P1** | ribosomal protein S7 pse | pseudogene | 7 | 8 | 8 | 9 | 1.111 |
| 388364 | NM_001319942,NM | **TMIGD1** | transmembrane and imm | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388381 | NM_001080465 | **C17orf98** | chromosome 17 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388387 | NR_027254 | **LINC00671** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388389 | NM_001258395,NM | **CCDC103** | coiled-coil domain contai | protein_coding | 1 | 1 | 2 | 2 | 0.810 |
| 388394 | NM_203400 | **RPRML** | reprimo like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388401 | gene-RPL7P48 | **RPL7P48** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388403 | NM_001005404,XM | **YPEL2** | yippee like 2 | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 388406 | NR_126009 | **LINC01999** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388407 | NR_160788 | **LINC02875** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388419 | NM_001080466,XM | **BTBD17** | BTB domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388428 | NM_001354639 | **PVALEF** | parvalbumin like EF-han | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388436 | NR_160286 | **LOC388436** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388456 | NR_146724 | **LINC01904** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388460 | gene-RPL6P22 | **RPL6P22** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388468 | NM_001137671,NR | **POTEC** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388474 | gene-RPL7AP66 | **RPL7AP66** | ribosomal protein L7a ps | pseudogene | 3 | 4 | 4 | 5 | 1.267 |
| 388478 | gene-ENTR1P1 | **ENTR1P1** | ENTR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388499 | NR_033250 | **LYPLA2P2** | LYPLA2 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.971 |
| 388503 | NR_027300 | **C3P1** | complement component | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388507 | NM_001348163,NM | **ZNF788P** | zinc finger family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388512 | NM_001204118,NM | **CLEC17A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388514 | NR_033864 | **CYP4F24P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388523 | NM_001267716 | **ZNF728** | zinc finger protein 728 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388524 | NM_001355283,NM | **RPSAP58** | ribosomal protein SA pse | protein_coding | 55 | 51 | 56 | 52 | 0.920 |
| 388531 | NM_207391 | **RGS9BP** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 0.907 |
| 388532 | gene-RPL21P131 | **RPL21P131** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388533 | NM_001244847,NM | **KRTDAP** | keratinocyte differentiatic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388536 | NM_001242800,NM | **ZNF790** | zinc finger protein 790 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388550 | NR_027754 | **CEACAM22P** | CEA cell adhesion molec | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388551 | NM_001039213,XM | **CEACAM16** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388552 | NM_212550,XR_00 | **BLOC1S3** | biogenesis of lysosomal | protein_coding | 11 | 12 | 12 | 13 | 1.090 |
| 388553 | NM_001310124,XM | **BHMG1** | basic helix-loop-helix anc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388555 | NM_207393,XM_01 | **IGFL3** | IGF like family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388556 | gene-RPS9P4 | **RPS9P4** | ribosomal protein S9 pse | pseudogene | 0 | 0 | 1 | 1 | 0.780 |
| 388558 | NM_001039886,NM | **ZNF808** | zinc finger protein 808 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 388559 | NM_001310127,XM | **ZNF888** | zinc finger protein 888 | protein_coding | 2 | 1 | 3 | 2 | 0.761 |
| 388561 | NM_001008401,NM | **ZNF761** | zinc finger protein 761 | protein_coding | 2 | 2 | 3 | 3 | 1.091 |
| 388564 | NM_001190764 | **TMEM238** | transmembrane protein 2 | protein_coding | 2 | 2 | 3 | 3 | 0.824 |
| 388566 | NM_001001668,XM | **ZNF470** | zinc finger protein 470 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388567 | NM_001023561,NM | **ZNF749** | zinc finger protein 749 | protein_coding | 13 | 10 | 14 | 11 | 0.798 |
| 388569 | NM_207395,XM_00 | **ZNF324B** | zinc finger protein 324B | protein_coding | 9 | 9 | 10 | 10 | 0.983 |
| 388572 | XR_002957217 | **LOC388572** | uncharacterized LOC388 | lncRNA | 0 | 0 | 1 | 1 | 1.104 |
| 388574 | NR_029406 | **RPL23AP87** | ribosomal protein L23a p | transcribed_pseu | 1 | 1 | 2 | 2 | 1.009 |
| 388579 | gene-TUBB8P11 | **TUBB8P11** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388581 | NM_001014980,XM | **C1QTNF12** | C1q and TNF related 12 | protein_coding | 0 | 0 | 1 | 1 | 1.455 |
| 388585 | NM_001010926,XM | **HES5** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388588 | NM_001163724,NM | **SMIM1** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388591 | NM_207396,XM_01 | **RNF207** | ring finger protein 207 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388595 | NM_001013641 | **TMEM82** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388605 | gene-HS6ST1P1 | **HS6ST1P1** | heparan sulfate 6-O-sulf | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388606 | gene-SDHDP7 | **SDHDP7** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.067 |
| 388610 | NM_001013642,XM | **TRNP1** | TMF1 regulated nuclear | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388611 | NM_001330448,NM | **CD164L2** | CD164 molecule like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388621 | gene-RPL21P20 | **RPL21P20** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.166 |
| 388630 | NM_001194986,XM | **TRABD2B** | TraB domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388633 | NM_001010978,NM | **LDLRAD1** | low density lipoprotein re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388646 | NM_207398 | **GBP7** | guanylate binding protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388649 | NM_001012425,XM | **C1orf146** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388650 | NM_001006605,NM | **DIPK1A** | divergent protein kinase | protein_coding | 13 | 10 | 14 | 11 | 0.813 |
| 388662 | NM_001010898,XM | **SLC6A17** | solute carrier family 6 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388667 | NR_149353 | **LINC02868** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388677 | NM_001364006,NM | **NOTCH2NLA** | notch 2 N-terminal like A | protein_coding | 4 | 3 | 5 | 4 | 0.966 |
| 388685 | NR_027468,NR_10 | **LINC01138** | long intergenic non-prote | lncRNA | 16 | 13 | 17 | 14 | 0.820 |
| 388692 | NR_111933 | **LINC02591** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.978 |
| 388695 | NM_001136543,NM | **LYSMD1** | LysM domain containing | protein_coding | 10 | 9 | 11 | 10 | 0.939 |
| 388697 | NM_001009931 | **HRNR** | hornerin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388698 | NM_001014342,XM | **FLG2** | filaggrin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388699 | NR_145430 | **LINC00302** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388701 | NM_001010979 | **C1orf189** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.131 |
| 388707 | gene-RPSAP18 | **RPSAP18** | ribosomal protein SA pse | pseudogene | 1 | 1 | 2 | 2 | 0.938 |
| 388714 | NR_002601 | **FMO6P** | flavin containing dimethy | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388719 | NR_034131 | **LINC00272** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388722 | NM_001024594 | **C1orf53** | chromosome 1 open rea | protein_coding | 4 | 5 | 5 | 6 | 1.317 |
| 388730 | NM_203376 | **TMEM81** | transmembrane protein 8 | protein_coding | 2 | 3 | 3 | 4 | 1.162 |
| 388734 | gene-PRELID1P5 | **PRELID1P5** | PRELID1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.302 |
| 388743 | NM_001143962,XM | **CAPN8** | calpain 8 | protein_coding | 1 | 1 | 2 | 2 | 1.196 |
| 388753 | NM_001012985,NM | **COA6** | cytochrome c oxidase as | protein_coding | 42 | 39 | 43 | 40 | 0.932 |
| 388759 | NR_167894 | **C1orf229** | chromosome 1 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388761 | NM_001355292,XM | **OR14A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388762 | NR_002141 | **OR2M1P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388780 | NR_161305 | **LOC388780** | uncharacterized LOC388 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388789 | NM_001348957,NM | **SMIM26** | small integral membrane | protein_coding | 100 | 96 | 101 | 97 | 0.956 |
| 388795 | NM_001143967,XM | **EFCAB8** | EF-hand calcium binding | protein_coding | 1 | 1 | 2 | 2 | 1.179 |
| 388796 | NR_015366,NR_02 | **SNHG17** | small nucleolar RNA hos | lncRNA | 64 | 67 | 65 | 68 | 1.052 |
| 388799 | NM_001013646,XM | **FAM209B** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 0.940 |
| 388813 | NM_001256579 | **LOC388813** | uncharacterized protein l | protein_coding | 7 | 6 | 8 | 7 | 0.911 |
| 388815 | NR_027790,NR_02 | **MIR99AHG** | mir-99a-let-7c cluster ho | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 388818 | NM_203405 | **KRTAP26-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388820 | NM_001367348 | **SMIM34A** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 0.915 |
| 388830 | NR_103811 | **LINC00316** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388849 | NM_001365892,XM | **CCDC188** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388882 | NR_110539,NR_16 | **FAM230I** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 388885 | gene-RPS10P29 | **RPS10P29** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.253 |
| 388886 | NM_207644,XM_00 | **LRRC75B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388906 | NR_036498 | **OGFRP1** | opioid growth factor rece | transcribed_pseu | 3 | 2 | 4 | 3 | 0.883 |
| 388907 | gene-RPL5P34 | **RPL5P34** | ribosomal protein L5 pse | pseudogene | 0 | 1 | 1 | 2 | 1.183 |
| 388910 | NR_028409,NR_02 | **LINC00207** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388925 | gene-PSMC1P10 | **PSMC1P10** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 388931 | NM_001346880,XM | **MFSD2B** | major facilitator superfan | protein_coding | 0 | 0 | 1 | 1 | 1.023 |
| 388939 | NM_001029883 | **PCARE** | photoreceptor cilium acti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388942 | NR_033996 | **LINC01913** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 388946 | NM_001145051 | **TMEM247** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388948 | NR_034099 | **LINC01118** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.092 |
| 388951 | NM_001003937 | **TSPYL6** | TSPY like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 388955 | gene-PRELID1P6 | **PRELID1P6** | PRELID1 pseudogene 6 | pseudogene | 11 | 12 | 12 | 13 | 1.138 |
| 388960 | NM_001080474,NM | **C2orf78** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 388962 | NM_001035505,NM | **BOLA3** | bolA family member 3 | protein_coding | 168 | 167 | 169 | 168 | 0.996 |
| 388963 | NM_001145054,NM | **C2orf81** | chromosome 2 open rea | protein_coding | 5 | 5 | 6 | 6 | 1.068 |
| 388965 | NR_003663 | **FUNDC2P2** | FUN14 domain containin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 388969 | NM_001013649,XM | **C2orf68** | chromosome 2 open rea | protein_coding | 25 | 26 | 26 | 27 | 1.003 |
| 388996 | gene-LOC388996 | **LOC388996** | otopetrin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389000 | gene-SLC9B1P2 | **SLC9B1P2** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389015 | NM_001011552,XM | **SLC9A4** | solute carrier family 9 me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389023 | NR_036580 | **DPP10-AS1** | DPP10 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389033 | NR_026740 | **PLAC9P1** | placenta associated 9 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389043 | NR_036499 | **LINC01120** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389053 | gene-HNRNPKP2 | **HNRNPKP2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.906 |
| 389058 | NM_001003845,XM | **SP5** | Sp5 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389072 | NM_001080475,XM | **PLEKHM3** | pleckstrin homology dor | protein_coding | 2 | 2 | 3 | 3 | 0.919 |
| 389073 | NM_001099334,XM | **C2orf80** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389075 | NM_001007089,XM | **RESP18** | regulated endocrine spe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389084 | NM_001346120,NM | **SNORC** | secondary ossification ce | protein_coding | 1 | 1 | 2 | 2 | 1.067 |
| 389090 | NM_001005853 | **OR6B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389101 | gene-RPL23AP43 | **RPL23AP43** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389112 | gene-RPS27P4 | **RPS27P4** | ribosomal protein S27 ps | pseudogene | 3 | 3 | 4 | 4 | 0.943 |
| 389114 | NM_001134656,NM | **ZNF662** | zinc finger protein 662 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389118 | NM_001007540,XM | **CDHR4** | cadherin related family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389119 | NM_001366281,NM | **INKA1** | inka box actin regulator 1 | protein_coding | 0 | 0 | 1 | 1 | 0.915 |
| 389123 | NM_203424 | **IQCF2** | IQ motif containing F2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389124 | NM_001145059 | **IQCF5** | IQ motif containing F5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389125 | NM_205853 | **MUSTN1** | musculoskeletal, embryc | protein_coding | 1 | 3 | 2 | 4 | 2.040 |
| 389127 | gene-RPS10P10 | **RPS10P10** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389136 | NM_001320493,NM | **VGLL3** | vestigial like family mem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389137 | gene-ARMC10P1 | **ARMC10P1** | armadillo repeat containi | pseudogene | 16 | 15 | 17 | 16 | 0.917 |
| 389141 | gene-RPSAP29 | **RPSAP29** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 389151 | NM_001013650 | **PRR23B** | proline rich 23B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389152 | NM_001134657 | **PRR23C** | proline rich 23C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389156 | gene-RPL21P39 | **RPL21P39** | ribosomal protein L21 ps | pseudogene | 1 | 1 | 2 | 2 | 0.853 |
| 389158 | NM_001085420,NM | **PLSCR5** | phospholipid scramblase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389161 | NM_001144960,NM | **ANKUB1** | ankyrin repeat and ubiqu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389168 | gene-SETP14 | **SETP14** | SET pseudogene 14 | pseudogene | 7 | 6 | 8 | 7 | 0.897 |
| 389170 | NM_001004316,NM | **LEKR1** | leucine, glutamate and l | protein_coding | 0 | 0 | 1 | 1 | 1.185 |
| 389177 | NM_001164436,XM | **TMEM212** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389179 | gene-EEF1A1P8 | **EEF1A1P8** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 389180 | gene-HTR3C2P | **HTR3C2P** | 5-hydroxytryptamine rec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389197 | NM_001364689,NM | **C4orf50** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.921 |
| 389199 | NM_203423 | **LOC389199** | uncharacterized LOC389 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389203 | NM_001145432 | **SMIM20** | small integral membrane | protein_coding | 48 | 42 | 49 | 43 | 0.872 |
| 389206 | NM_001159547,NM | **BEND4** | BEN domain containing 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389207 | NM_001080476 | **GRXCR1** | glutaredoxin and cystein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389208 | NM_207407,XM_01 | **TMPRSS11F** | transmembrane serine p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389217 | gene-SETP20 | **SETP20** | SET pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 389223 | gene-EEF1A1P35 | **EEF1A1P35** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 389240 | gene-NACA3P | **NACA3P** | NACA family member 3, | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 389246 | gene-VTI1BP2 | **VTI1BP2** | vesicle transport through | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389247 | NR_033995 | **LOC389247** | uncharacterized LOC389 | lncRNA | 1 | 1 | 2 | 2 | 0.829 |
| 389249 | gene-LOC389249 | **LOC389249** | peroxiredoxin 6 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389257 | NM_001080478 | **LRRC14B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389273 | NR_134289,NR_13 | **LINC02213** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389289 | NM_001014279,NM | **ANXA2R** | annexin A2 receptor | protein_coding | 20 | 20 | 21 | 21 | 0.997 |
| 389293 | gene-ISCA1P1 | **ISCA1P1** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 0.961 |
| 389320 | NM_207408 | **TEX43** | testis expressed 43 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389322 | gene-HNRNPKP1 | **HNRNPKP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.936 |
| 389332 | NM_001350994 | **SMIM32** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389333 | NM_001161546 | **PROB1** | proline rich basic protein | protein_coding | 2 | 2 | 3 | 3 | 0.939 |
| 389336 | NM_206966,XM_00 | **C5orf46** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389337 | NM_001001669,XM | **ARHGEF37** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 389342 | gene-RPL10P9 | **RPL10P9** | ribosomal protein L10 ps | pseudogene | 1 | 0 | 2 | 1 | 0.855 |
| 389362 | NM_001128591,NM | **PSMG4** | proteasome assembly ch | protein_coding | 63 | 61 | 64 | 62 | 0.964 |
| 389376 | NM_205854 | **SFTA2** | surfactant associated 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389383 | NM_001286550,NM | **CLPSL2** | colipase like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389384 | NM_001010903,XM | **BNIP5** | BCL2 interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389386 | gene-LAP3P2 | **LAP3P2** | leucine aminopeptidase 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389395 | gene-HNRNPA3P4 | **HNRNPA3P4** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.951 |
| 389396 | NM_001010904 | **GLYATL3** | glycine-N-acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389400 | NM_207410 | **GFRAL** | GDNF family receptor al | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389404 | gene-RPL9P18 | **RPL9P18** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389416 | gene-BDH2P1 | **BDH2P1** | 3-hydroxybutyrate dehyd | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 389421 | NM_001004317,XM | **LIN28B** | lin-28 homolog B | protein_coding | 27 | 21 | 28 | 22 | 0.800 |
| 389424 | gene-PA2G4P5 | **PA2G4P5** | proliferation-associated 2 | pseudogene | 0 | 0 | 1 | 1 | 1.046 |
| 389428 | gene-RPL5P18 | **RPL5P18** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.072 |
| 389432 | NM_001030060,XM | **SAMD5** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389434 | NM_001164694,NM | **IYD** | iodotyrosine deiodinase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389435 | gene-RPL27AP6 | **RPL27AP6** | ribosomal protein L27a p | pseudogene | 20 | 23 | 21 | 24 | 1.152 |
| 389458 | NR_015343 | **RBAKDN** | RBAK downstream neigh | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389472 | gene-RPS26P32 | **RPS26P32** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 0.890 |
| 389473 | gene-LOC389473 | **LOC389473** | chromosome 5 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389493 | NM_001145712 | **NUPR2** | nuclear protein 2, transc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389524 | NM_001003795,NM | **GTF2IRD2B** | GTF2I repeat domain co | protein_coding | 6 | 6 | 7 | 7 | 1.036 |
| 389538 | NR_002822,NR_14 | **CCZ1P-OR7E38P** | CCZ1P-OR7E38P readth | transcribed_pseu | 52 | 51 | 53 | 52 | 0.977 |
| 389541 | NM_001008395,NM | **LAMTOR4** | late endosomal/lysosoma | protein_coding | 126 | 139 | 127 | 140 | 1.106 |
| 389549 | NM_001024613,NM | **FEZF1** | FEZ family zinc finger 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389558 | NM_001369697,NM | **FAM180A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389599 | gene-STRADBP1 | **STRADBP1** | STE20-related kinase ad | pseudogene | 0 | 0 | 1 | 1 | 0.894 |
| 389602 | NR_144629,NR_16 | **LOC389602** | uncharacterized LOC389 | lncRNA | 40 | 34 | 41 | 35 | 0.853 |
| 389610 | NM_001289973,NM | **XKR5** | XK related 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389611 | gene-FAM90A3P | **FAM90A3P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389618 | gene-FAM90A6P | **FAM90A6P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389630 | gene-FAM90A15P | **FAM90A15P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389631 | gene-ZNF705CP | **ZNF705CP** | zinc finger protein 705C, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389633 | NR_073395 | **FAM90A25P** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389634 | NR_024420 | **LINC00937** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389641 | NR_033928 | **LOC389641** | uncharacterized LOC389 | lncRNA | 1 | 1 | 2 | 2 | 1.022 |
| 389643 | NM_001010906,XM | **NUGGC** | nuclear GTPase, germin | protein_coding | 8 | 8 | 9 | 9 | 1.037 |
| 389644 | gene-RPL5P22 | **RPL5P22** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389649 | NR_167676 | **C8orf86** | chromosome 8 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389652 | NR_146077 | **ASNSP1** | asparagine synthetase p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389655 | gene-RPL29P19 | **RPL29P19** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389658 | NM_207413 | **ALKAL1** | ALK and LTK ligand 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389662 | gene-SEPTIN10P1 | **SEPTIN10P1** | septin 10 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389668 | NM_001011720,NM | **XKR9** | XK related 9 | protein_coding | 5 | 4 | 6 | 5 | 0.848 |
| 389672 | gene-RPSAP47 | **RPSAP47** | ribosomal protein SA pse | pseudogene | 70 | 77 | 71 | 78 | 1.097 |
| 389674 | gene-HNRNPA1P4 | **HNRNPA1P4** | heterogeneous nuclear r | pseudogene | 7 | 9 | 8 | 10 | 1.217 |
| 389676 | NR_161372 | **C8orf87** | chromosome 8 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 389677 | NM_001377960,NM | **RBM12B** | RNA binding motif protei | protein_coding | 20 | 17 | 21 | 18 | 0.889 |
| 389690 | NR_102363,NR_10 | **MROH5** | maestro heat like repeat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389692 | NM_201589 | **MAFA** | MAF bZIP transcription fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389705 | NR_003920 | **LOC389705** | histone PARylation facto | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 389715 | NR_024481 | **FAM205BP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389727 | gene-FKBP4P2 | **FKBP4P2** | FKBP prolyl isomerase 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389730 | NM_001145196,XM_ | **SPATA31A6** | SPATA31 subfamily A m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389740 | gene-ADGRF5P1 | **ADGRF5P1** | adhesion G protein-coup | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389741 | NR_015363,NR_12( | **GLIDR** | glioblastoma down-regul | lncRNA | 3 | 3 | 4 | 4 | 1.030 |
| 389747 | gene-MEP1AP3 | **MEP1AP3** | meprin A subunit alpha p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389756 | gene-AQP7P2 | **AQP7P2** | aquaporin 7 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389761 | NM_001145197 | **SPATA31D4** | SPATA31 subfamily D m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389762 | NM_207416 | **SPATA31D3** | SPATA31 subfamily D m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389763 | NM_001001670,XM | **SPATA31D1** | SPATA31 subfamily D m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389765 | NR_029410 | **LOC389765** | kinesin family member 2' | transcribed_pseu | 1 | 1 | 2 | 2 | 0.739 |
| 389766 | NM_001276366,NM | **C9orf153** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.081 |
| 389768 | gene-LOC389768 | **LOC389768** | potassium channel tetra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389787 | gene-TPT1P9 | **TPT1P9** | tumor protein, translatior | pseudogene | 0 | 0 | 1 | 1 | 1.102 |
| 389791 | NR_024425 | **PTGES2-AS1** | PTGES2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.169 |
| 389792 | NM_203434 | **IER5L** | immediate early respons | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389799 | NM_001282957,NM | **CFAP77** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389812 | NM_203347,XM_01 | **LCN15** | lipocalin 15 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389813 | NM_001080482 | **AJM1** | apical junction compone | protein_coding | 2 | 1 | 3 | 2 | 0.838 |
| 389816 | NM_001013653 | **LRRC26** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389827 | NM_001080483 | **MYMK** | myomaker, myoblast fus | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389840 | NM_001001671,XM | **MAP3K15** | mitogen-activated protei | protein_coding | 0 | 0 | 1 | 1 | 1.001 |
| 389844 | gene-FTH1P19 | **FTH1P19** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389849 | gene-GAPDHP65 | **GAPDHP65** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 389852 | NM_205856,XM_01 | **SPACA5** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389856 | NM_001145073 | **USP27X** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389857 | NM_001355277 | **CENPVL1** | centromere protein V like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389860 | NM_001015038,XM | **PAGE2B** | PAGE family member 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389866 | gene-SERBP1P1 | **SERBP1P1** | SERPINE1 mRNA bindin | pseudogene | 1 | 1 | 2 | 2 | 1.115 |
| 389873 | gene-SEPHS1P4 | **SEPHS1P4** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 389874 | NM_203303 | **ZCCHC13** | zinc finger CCHC-type co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389884 | gene-PA2G4P1 | **PA2G4P1** | proliferation-associated 2 | pseudogene | 0 | 0 | 1 | 1 | 0.974 |
| 389895 | NM_001271560 | **LOC389895** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389898 | NR_121210 | **UBE2NL** | ubiquitin conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389901 | gene-XRCC6P2 | **XRCC6P2** | . | pseudogene | 0 | 1 | 1 | 2 | 1.221 |
| 389903 | NM_001129826,NM | **CSAG3** | CSAG family member 3 | protein_coding | 3 | 2 | 4 | 3 | 0.724 |
| 389906 | NR_034031 | **LOC389906** | zinc finger protein 839 p | transcribed_pseu | 11 | 11 | 12 | 12 | 0.977 |
| 389932 | NR_026743 | **AKR1C6P** | aldo-keto reductase fami | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 389935 | gene-PRPF38AP1 | **PRPF38AP1** | PRP38 domain containin | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 389941 | NM_001010908 | **C1QL3** | complement C1q like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 389970 | gene-GAPDHP21 | **GAPDHP21** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389976 | gene-ACTBP14 | **ACTBP14** | ACTB pseudogene 14 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389990 | gene-RPA2P2 | **RPA2P2** | replication protein A2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389992 | gene-RPL7P34 | **RPL7P34** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 389997 | gene-NIP7P1 | **NIP7P1** | NIP7 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390003 | NR_028134 | **GUCY2GP** | guanylate cyclase 2G, ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390006 | gene-PPIAP19 | **PPIAP19** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.099 |
| 390007 | gene-TOMM22P5 | **TOMM22P5** | TOMM22 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.079 |
| 390010 | NM_001146340 | **NKX1-2** | NK1 homeobox 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390028 | gene-OR4F2P | **OR4F2P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390029 | gene-LOC390029 | **LOC390029** | actin beta pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390036 | NM_001005171 | **OR52K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390037 | NM_001005169 | **OR52I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390038 | NM_001004751 | **OR51D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390054 | NM_001005160 | **OR52A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390058 | NM_001004750 | **OR51B6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390059 | NM_001004756 | **OR51M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390061 | NM_001004757 | **OR51Q1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390063 | NM_001005288 | **OR51I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390064 | NM_001004754 | **OR51I2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390066 | NM_001005163 | **OR52D1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390067 | NM_001005289 | **OR52H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390072 | NM_001005175,XM | **OR52N4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390075 | NM_001001922 | **OR52N5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390077 | NM_001005174,XM | **OR52N2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390078 | NM_001005167 | **OR52E6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390079 | NM_001005168 | **OR52E8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390081 | NM_001005165 | **OR52E4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390082 | NM_001005166 | **OR52E5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390083 | NM_001003443 | **OR56A3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390084 | NM_001146033 | **OR56A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390093 | NM_001004461 | **OR10A6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390098 | gene-MRGPRX6P | **MRGPRX6P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390099 | gene-MRGPRX5P | **MRGPRX5P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390101 | gene-MRGPRX10P | **MRGPRX10P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390107 | gene-RPS24P15 | **RPS24P15** | ribosomal protein S24 ps | pseudogene | 1 | 1 | 2 | 2 | 0.868 |
| 390110 | NM_001031854,NM | **ACCSL** | 1-aminocyclopropane-1-( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390113 | NM_001004726 | **OR4X1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390134 | gene-OR4A4P | **OR4A4P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390142 | NM_001001967 | **OR5D13** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390144 | NM_001005496,XM | **OR5D16** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390148 | NM_001001960 | **OR5W2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390151 | NM_001005200 | **OR8H2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390152 | NM_001005201 | **OR8H3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390154 | NM_001004747 | **OR5T3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390155 | NM_001004745 | **OR5T1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390157 | NM_001002907 | **OR8K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390158 | gene-RPL5P29 | **RPL5P29** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 390162 | NM_001004743 | **OR5M9** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390167 | NM_001004741 | **OR5M10** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390168 | NM_001004740 | **OR5M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390174 | NM_001005213 | **OR9G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390181 | NM_001005323 | **OR5AK2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390183 | gene-RPS4XP13 | **RPS4XP13** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 390190 | NM_001005566 | **OR5B2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390191 | NM_001004733 | **OR5B12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390195 | NM_001004729 | **OR5AN1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390197 | NM_001004705 | **OR4D10** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390199 | NM_001004711 | **OR4D9** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390201 | NM_001005324 | **OR10V1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390203 | gene-SRD5A3P1 | **SRD5A3P1** | steroid 5 alpha-reductas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390205 | NM_001145077 | **LRRC10B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390206 | gene-RPS2P37 | **RPS2P37** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390211 | gene-KRT8P26 | **KRT8P26** | keratin 8 pseudogene 26 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390212 | NM_206997 | **GPR152** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390213 | NR_033791 | **DOC2GP** | double C2 domain gamn | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390221 | gene-FOLR1P1 | **FOLR1P1** | folate receptor 1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390226 | NR_024042 | **GUCY2EP** | guanylate cyclase 2E, ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390228 | gene-RPL7AP54 | **RPL7AP54** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.056 |
| 390231 | NM_001146162,NM | **TRIM77** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390233 | gene-TRIM64FP | **TRIM64FP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390239 | gene-NDUFB11P1 | **NDUFB11P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390243 | NM_001199206 | **IZUMO1R** | IZUMO1 receptor, JUNO | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390245 | NM_001161630 | **KDM4E** | lysine demethylase 4E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390251 | gene-LOC390251 | **LOC390251** | SH3 domain containing ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390255 | gene-LOC390255 | **LOC390255** | DExD-box helicase 39B p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390259 | NM_001098169 | **BSX** | brain specific homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390260 | NM_001005188 | **OR6X1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390261 | NM_001005325 | **OR6M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390264 | NM_001004462 | **OR10G4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390265 | NM_001004463 | **OR10G7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390271 | NM_001005467,XM | **OR8B3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390275 | NM_001005194 | **OR8A1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390282 | gene-LOC390282 | **LOC390282** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390283 | gene-RPL31P10 | **RPL31P10** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.124 |
| 390284 | gene-SRP14P1 | **SRP14P1** | signal recognition particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 390294 | gene-HNRNPABP1 | **HNRNPABP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 390297 | gene-PSMC1P8 | **PSMC1P8** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390298 | gene-TIMM17BP1 | **TIMM17BP1** | translocase of inner mito | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390301 | gene-ST13P9 | **ST13P9** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390306 | gene-LOC390306 | **LOC390306** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390308 | gene-LOC390308 | **LOC390308** | CDGSH iron sulfur doma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390311 | gene-PHBP18 | **PHBP18** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390314 | gene-LOC390314 | **LOC390314** | chromosome 20 open re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390321 | NM_001005182 | **OR6C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390323 | NM_001005497 | **OR6C75** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390326 | NM_001005183 | **OR6C76** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390327 | NM_001005499 | **OR6C70** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390332 | gene-LOC390332 | **LOC390332** | retinol dehydrogenase 1 | pseudogene | 0 | 0 | 1 | 1 | 0.790 |
| 390340 | gene-PDCL3P7 | **PDCL3P7** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390345 | gene-RPL10P13 | **RPL10P13** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.051 |
| 390352 | gene-EEF1A1P33 | **EEF1A1P33** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 390354 | gene-RPL18AP3 | **RPL18AP3** | ribosomal protein L18a p | pseudogene | 42 | 50 | 43 | 51 | 1.193 |
| 390363 | gene-CLIC1P1 | **CLIC1P1** | chloride intracellular cha | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 390394 | gene-EIF4A1P5 | **EIF4A1P5** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.033 |
| 390402 | gene-AKR1B1P4 | **AKR1B1P4** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390403 | gene-ABITRAMP1 | **ABITRAMP1** | ABITRAM pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390407 | gene-EIF4A1P6 | **EIF4A1P6** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390413 | gene-RPL7P44 | **RPL7P44** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 390415 | gene-CCT5P2 | **CCT5P2** | chaperonin containing T( | pseudogene | 0 | 0 | 1 | 1 | 1.046 |
| 390418 | gene-KRT18P27 | **KRT18P27** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390419 | gene-PPIAP23 | **PPIAP23** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390423 | gene-ARF4P3 | **ARF4P3** | ADP ribosylation factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390424 | gene-ATP5MC1P5 | **ATP5MC1P5** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390429 | NM_001004723 | **OR4N2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390431 | NM_001005501 | **OR4K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390432 | NR_145508 | **OR4Q2** | olfactory receptor family | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 390433 | NM_001004714 | **OR4K13** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390436 | NM_001004715 | **OR4K17** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390437 | NM_001004724 | **OR4N5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390438 | gene-OR11G1P | **OR11G1P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390439 | NM_001005503 | **OR11G2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390441 | NR_145509 | **OR11H7** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390442 | NM_001004479 | **OR11H4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390443 | NM_001001673,NM | **RNASE9** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390445 | NM_001004731 | **OR5AU1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390472 | gene-KRT8P2 | **KRT8P2** | keratin 8 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390482 | gene-AKR1B1P5 | **AKR1B1P5** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390483 | gene-SALL4P7 | **SALL4P7** | spalt like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390501 | gene-MPPE1P1 | **MPPE1P1** | metallophosphoesterase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390502 | NR_110563 | **SERPINA2** | serpin family A member 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390503 | gene-ADIPOR1P2 | **ADIPOR1P2** | adiponectin receptor 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390535 | NR_033350 | **GOLGA8EP** | golgin A8 family member | transcribed_pseu | 0 | 0 | 1 | 1 | 0.956 |
| 390538 | NM_001004719 | **OR4M2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390539 | NR_028067 | **OR4N3P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390561 | NR_072991 | **HERC2P10** | hect domain and RLD 2 | transcribed_pseu | 2 | 1 | 3 | 2 | 0.872 |
| 390572 | gene-PRELID1P4 | **PRELID1P4** | PRELID1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390576 | gene-RPS15P8 | **RPS15P8** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390578 | gene-RPLP0P10 | **RPLP0P10** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.037 |
| 390581 | gene-ATP5PDP1 | **ATP5PDP1** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390586 | gene-LOC390586 | **LOC390586** | hydroxyacyl-CoA dehydr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390594 | NM_001101362 | **KBTBD13** | kelch repeat and BTB do | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390595 | NM_001163692,XM | **UBAP1L** | ubiquitin associated prot | protein_coding | 0 | 0 | 1 | 1 | 1.040 |
| 390598 | NM_001365915 | **SKOR1** | SKI family transcriptional | protein_coding | 0 | 0 | 1 | 1 | 0.952 |
| 390600 | gene-LOC390600 | **LOC390600** | cytokine induced apopto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390601 | gene-KRT8P9 | **KRT8P9** | keratin 8 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390610 | gene-KRT8P23 | **KRT8P23** | keratin 8 pseudogene 23 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390612 | gene-RPL18P11 | **RPL18P11** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390616 | NM_001146341 | **ANKRD34C** | ankyrin repeat domain 34 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390618 | gene-LOC390618 | **LOC390618** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390627 | gene-CSPG4P10 | **CSPG4P10** | chondroitin sulfate prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390634 | gene-KRT18P47 | **KRT18P47** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390637 | NM_001013657,NM | **GDPGP1** | GDP-D-glucose phosph | protein_coding | 3 | 3 | 4 | 4 | 1.113 |
| 390643 | gene-PGAM1P12 | **PGAM1P12** | phosphoglycerate mutas | pseudogene | 1 | 1 | 2 | 2 | 1.086 |
| 390648 | NM_001005326 | **OR4F6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390649 | NM_001001674 | **OR4F15** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390651 | NR_046417 | **OR4F13P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390652 | gene-OR4F28P | **OR4F28P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390660 | NR_045529 | **ADAMTS7P1** | ADAMTS7 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390664 | NM_207419,XM_01 | **C1QTNF8** | C1q and TNF related 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390667 | NM_001013658,NM | **PTX4** | pentraxin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.066 |
| 390671 | gene-RPL18P12 | **RPL18P12** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.112 |
| 390688 | gene-CDC37P1 | **CDC37P1** | cell division cycle 37 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390705 | NR_033866 | **LOC390705** | protein phosphatase 2 re | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390714 | id-LOC390714 | **LOC390714** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 390729 | gene-RPL10P14 | **RPL10P14** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390730 | gene-PHBP21 | **PHBP21** | prohibitin pseudogene 21 | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 390732 | NR_033740 | **CES1P2** | carboxylesterase 1 pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390739 | gene-LOC390739 | **LOC390739** | MYC binding protein pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390748 | NM_001080487,NM | **PABPN1L** | PABPN1 like, cytoplasmi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390756 | NR_024128 | **OR3A4P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390766 | gene-RNASEH1P2 | **RNASEH1P2** | ribonuclease H1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 0.950 |
| 390790 | NM_001143968 | **ARL5C** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 390791 | gene-PPIAP54 | **PPIAP54** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390792 | NM_213656 | **KRT39** | keratin 39 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390800 | gene-RPL7L1P5 | **RPL7L1P5** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390806 | gene-LOC390806 | **LOC390806** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390831 | gene-PMM2P1 | **PMM2P1** | phosphomannomutase 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390834 | gene-FEM1AP2 | **FEM1AP2** | fem-1 homolog A pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390843 | gene-EIF4A3P1 | **EIF4A3P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390844 | gene-ARIH2P1 | **ARIH2P1** | ariadne RBR E3 ubiquitin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390846 | gene-LOC390846 | **LOC390846** | golgi SNAP receptor com | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390848 | gene-RPS15AP35 | **RPS15AP35** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390857 | gene-RPSAP57 | **RPSAP57** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390858 | NR_024021 | **OACYLP** | O-acyltransferase like, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390860 | gene-LOC390860 | **LOC390860** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390874 | NM_001080488 | **ONECUT3** | one cut homeobox 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390876 | gene-LOC390876 | **LOC390876** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390877 | NM_001321601,XM | **LOC390877** | adenylate kinase isoenzy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390882 | NM_001005193 | **OR7G2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390883 | NM_001001958 | **OR7G3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390892 | NM_001005190 | **OR7A10** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390904 | gene-KRT18P40 | **KRT18P40** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390916 | NM_001105570,XM | **NUDT19** | nudix hydrolase 19 | protein_coding | 29 | 27 | 30 | 28 | 0.932 |
| 390924 | gene-EEF1A1P7 | **EEF1A1P7** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.965 |
| 390927 | NM_001013659,XM | **ZNF793** | zinc finger protein 793 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390928 | NM_001004318,NM | **ACP7** | acid phosphatase 7, tartr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390933 | gene-LOC390933 | **LOC390933** | PAT1 homolog 1, proces | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 390937 | NM_001365103,XM | **ERFL** | ETS repressor factor like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390940 | NM_001193621,NM | **PINLYP** | phospholipase A2 inhibit | protein_coding | 0 | 0 | 1 | 1 | 0.810 |
| 390948 | gene-HNRNPMP2 | **HNRNPMP2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390956 | gene-PPIAP59 | **PPIAP59** | . | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 390963 | NR_073396 | **ZNF818P** | zinc finger protein 818, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 390980 | NM_001023563,NM | **ZNF805** | zinc finger protein 805 | protein_coding | 4 | 3 | 5 | 4 | 0.855 |
| 390992 | NM_001024598 | **HES3** | hes family bHLH transcri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 390993 | gene-RPL7AP18 | **RPL7AP18** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390996 | gene-CFL1P6 | **CFL1P6** | cofilin 1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390997 | gene-SBF1P2 | **SBF1P2** | SBF1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390998 | gene-RPL10P17 | **RPL10P17** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 390999 | NM_001080830 | **PRAMEF12** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391002 | NM_001012276,XM | **PRAMEF8** | PRAME family member 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391003 | NM_001099850 | **PRAMEF18** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 391004 | NM_001099851 | **PRAMEF17** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391012 | gene-DYNLL1P3 | **DYNLL1P3** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391013 | NM_001316722,NM | **PLA2G2C** | phospholipase A2 group | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391019 | gene-RPL29P6 | **RPL29P6** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.081 |
| 391020 | gene-IFITM3P7 | **IFITM3P7** | IFITM3 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391026 | gene-ACTN4P2 | **ACTN4P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391033 | gene-MKRN8P | **MKRN8P** | makorin ring finger prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391037 | NR_026749 | **SKINT1L** | Skint1 like (pseudogene) | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391039 | gene-CFL1P2 | **CFL1P2** | cofilin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391040 | gene-BTF3L4P3 | **BTF3L4P3** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 391044 | gene-PHBP3 | **PHBP3** | prohibitin pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 391045 | gene-SLC2A3P2 | **SLC2A3P2** | solute carrier family 2 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391048 | gene-CHORDC1P5 | **CHORDC1P5** | CHORDC1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391051 | NR_003927 | **UOX** | urate oxidase (pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 0.960 |
| 391059 | NM_001013660,NM | **FRRS1** | ferric chelate reductase 1 | protein_coding | 7 | 5 | 8 | 6 | 0.799 |
| 391069 | gene-GAPDHP64 | **GAPDHP64** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391075 | gene-GAPDHP23 | **GAPDHP23** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391076 | gene-HSD3BP1 | **HSD3BP1** | hydroxy-delta-5-steroid d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391077 | gene-GAPDHP58 | **GAPDHP58** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391081 | gene-HSD3BP5 | **HSD3BP5** | hydroxy-delta-5-steroid d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391092 | gene-LOC391092 | **LOC391092** | PRAME family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391099 | gene-KRT8P28 | **KRT8P28** | keratin 8 pseudogene 28 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391102 | gene-RPLP0P4 | **RPLP0P4** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391104 | NM_001004319 | **VHLL** | VHL like | protein_coding | 0 | 0 | 1 | 1 | 1.147 |
| 391107 | NM_001004476 | **OR10K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391109 | NM_001004473 | **OR10K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391112 | NM_001005189 | **OR6Y1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391114 | NM_001005327 | **OR6K3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391121 | NM_001348286,NR | **OR10J4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391123 | NM_001013661 | **VSIG8** | V-set and immunoglobul | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391124 | gene-RPL27AP2 | **RPL27AP2** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391126 | gene-RPL26P12 | **RPL26P12** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391130 | gene-RPS17P6 | **RPS17P6** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391135 | gene-RPL4P3 | **RPL4P3** | ribosomal protein L4 pse | pseudogene | 0 | 0 | 1 | 1 | 1.217 |
| 391136 | gene-LOC391136 | **LOC391136** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 0.924 |
| 391155 | gene-KRT8P29 | **KRT8P29** | keratin 8 pseudogene 29 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391160 | gene-ARPC3P2 | **ARPC3P2** | actin related protein 2/3 ( | pseudogene | 0 | 0 | 1 | 1 | 1.093 |
| 391162 | gene-GAPDHP24 | **GAPDHP24** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391168 | gene-RPS3AP7 | **RPS3AP7** | RPS3A pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 391169 | gene-CDKN2AIPNL | **CDKN2AIPNLP1** | CDKN2A interacting prot | pseudogene | 0 | 0 | 1 | 1 | 1.066 |
| 391171 | gene-TUBB8P10 | **TUBB8P10** | tubulin beta 8 class VIII p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391174 | gene-FAM96AP2 | **FAM96AP2** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.054 |
| 391175 | gene-RPL23AP15 | **RPL23AP15** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391179 | gene-KRT18P32 | **KRT18P32** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391181 | gene-RPL6P3 | **RPL6P3** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391183 | gene-RSL24D1P4 | **RSL24D1P4** | ribosomal L24 domain cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391189 | NM_001001959 | **OR11L1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391190 | NM_001001963 | **OR2L8** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391191 | NM_001004491 | **OR2AK2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391192 | NM_001004687 | **OR2L3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391194 | NM_001004688 | **OR2M2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391195 | NM_001004695 | **OR2T33** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391196 | NM_001004691 | **OR2M7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391211 | NM_001013355 | **OR2G6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391239 | gene-LOC391239 | **LOC391239** | V-set domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391247 | gene-LOC391247 | **LOC391247** | GINS complex subunit 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391253 | NM_178455 | **SPINT4** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391256 | gene-KRT18P4 | **KRT18P4** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 391257 | NR_002189 | **SUMO1P1** | SUMO1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391266 | gene-CNN2P7 | **CNN2P7** | calponin 2 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391267 | NR_027270 | **ANKRD20A11P** | ankyrin repeat domain 20 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391276 | gene-THUMPD1P1 | **THUMPD1P1** | THUMP domain containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391282 | gene-RPL23AP12 | **RPL23AP12** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391334 | gene-LOC391334 | **LOC391334** | actin gamma 2, smooth r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391349 | gene-PIK3CDP1 | **PIK3CDP1** | phosphatidylinositol-4,5- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391356 | NM_001013663 | **PTRHD1** | peptidyl-tRNA hydrolase | protein_coding | 20 | 25 | 21 | 26 | 1.277 |
| 391358 | gene-TRMT112P6 | **TRMT112P6** | tRNA methyltransferase | pseudogene | 1 | 1 | 2 | 2 | 0.897 |
| 391359 | gene-EMP2P1 | **EMP2P1** | EMP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391365 | NM_001032377,NM | **SULT6B1** | sulfotransferase family 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391367 | gene-GAPDHP25 | **GAPDHP25** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391370 | gene-RPS12P4 | **RPS12P4** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391378 | gene-HNRNPA1P66 | **HNRNPA1P66** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.235 |
| 391383 | gene-LOC391383 | **LOC391383** | WD repeat domain 4 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391387 | gene-RPSAP28 | **RPSAP28** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391428 | gene-SEPHS1P7 | **SEPHS1P7** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391448 | gene-MANEALP1 | **MANEALP1** | MANEAL pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391458 | gene-KRT18P46 | **KRT18P46** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391462 | gene-RPSAP24 | **RPSAP24** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391465 | gene-STUB1P1 | **STUB1P1** | STUB1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391467 | gene-IMPDH1P7 | **IMPDH1P7** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391470 | gene-AHCYP5 | **AHCYP5** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391475 | NM_001093730 | **DYTN** | dystrotelin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391485 | gene-KRT8P30 | **KRT8P30** | keratin 8 pseudogene 30 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391490 | gene-RPL23AP26 | **RPL23AP26** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391504 | gene-RPL23AP38 | **RPL23AP38** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391508 | gene-PGAM1P4 | **PGAM1P4** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391518 | NR_002311 | **VENTXP7** | VENT homeobox pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391524 | gene-THRAP3P1 | **THRAP3P1** | THRAP3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391526 | gene-IGBP1P3 | **IGBP1P3** | immunoglobulin (CD79A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391530 | gene-SALL4P6 | **SALL4P6** | spalt like transcription fa | pseudogene | 1 | 0 | 2 | 1 | 0.747 |
| 391532 | gene-PPIAP47 | **PPIAP47** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391533 | gene-FLT1P1 | **FLT1P1** | FLT1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391538 | gene-ALDOAP1 | **ALDOAP1** | ALDOA pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391539 | gene-RPS25P4 | **RPS25P4** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391552 | gene-AGGF1P3 | **AGGF1P3** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391559 | gene-VTI1BP1 | **VTI1BP1** | vesicle transport through | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391560 | gene-RPL32P7 | **RPL32P7** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391562 | gene-LOC391562 | **LOC391562** | ezrin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391566 | gene-H2BP3 | **H2BP3** | H2B histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391578 | gene-LOC391578 | **LOC391578** | MAF1 homolog (S. cerev | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391581 | gene-RPL31P23 | **RPL31P23** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391584 | gene-KRT18P35 | **KRT18P35** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391587 | gene-PPIAP73 | **PPIAP73** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 391589 | gene-KRT18P34 | **KRT18P34** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391592 | gene-BZW1P1 | **BZW1P1** | basic leucine zipper and | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 391595 | gene-RPL32P10 | **RPL32P10** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391598 | gene-RPSAP31 | **RPSAP31** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391603 | gene-NMNAT1P3 | **NMNAT1P3** | NMNAT1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391622 | NR_027279 | **USP17L6P** | ubiquitin specific peptida | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391627 | NR_046416 | **USP17L9P** | ubiquitin specific peptida | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 391634 | gene-HSP90AB2P | **HSP90AB2P** | heat shock protein 90 al | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 391636 | gene-LOC391636 | **LOC391636** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391642 | gene-IGBP1P5 | **IGBP1P5** | immunoglobulin (CD79A | pseudogene | 0 | 0 | 1 | 1 | 0.924 |
| 391647 | gene-KRT18P25 | **KRT18P25** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391655 | gene-RPL17P20 | **RPL17P20** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391656 | gene-RPS15AP17 | **RPS15AP17** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.044 |
| 391657 | gene-DPP3P1 | **DPP3P1** | DPP3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391670 | gene-HNRNPA1P56 | **HNRNPA1P56** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391672 | gene-IGBP1P4 | **IGBP1P4** | immunoglobulin (CD79A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391674 | gene-LOC391674 | **LOC391674** | aminomethyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391681 | gene-EXOC7P1 | **EXOC7P1** | exocyst complex compor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391686 | gene-LYPLA1P2 | **LYPLA1P2** | LYPLA1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391696 | gene-TECRP2 | **TECRP2** | trans-2,3-enoyl-CoA redu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391697 | gene-ZSWIM5P3 | **ZSWIM5P3** | zinc finger SWIM-type cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391698 | gene-EEF1GP8 | **EEF1GP8** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391701 | gene-RPS23P2 | **RPS23P2** | ribosomal protein S23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 391703 | gene-KRT18P51 | **KRT18P51** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391706 | gene-RPS3AP18 | **RPS3AP18** | RPS3A pseudogene 18 | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 391707 | gene-LOC391707 | **LOC391707** | chromatin accessibility c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391712 | NM_001012414 | **TRIM61** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391718 | gene-TSEN2P1 | **TSEN2P1** | tRNA splicing endonucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391719 | gene-RPL19P8 | **RPL19P8** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391722 | gene-MYL12BP2 | **MYL12BP2** | . | pseudogene | 0 | 0 | 1 | 1 | 0.911 |
| 391723 | NM_001300781,NM | **HELT** | helt bHLH transcription f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391738 | gene-RPL29P13 | **RPL29P13** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391739 | gene-CCT6P2 | **CCT6P2** | chaperonin containing T( | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 391769 | NM_001355258 | **H3Y1** | H3.Y histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 391771 | gene-LOC391771 | **LOC391771** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 391777 | gene-RPS4XP6 | **RPS4XP6** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 0.944 |
| 391798 | gene-LOC391798 | **LOC391798** | karyopherin subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391803 | gene-KRT18P45 | **KRT18P45** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391804 | gene-RBMX2P5 | **RBMX2P5** | RBMX2 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391811 | gene-POLD2P1 | **POLD2P1** | DNA polymerase delta 2, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391813 | gene-LOC391813 | **LOC391813** | zinc finger DHHC-type pa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391819 | gene-KRT18P42 | **KRT18P42** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391825 | gene-RPL23AP44 | **RPL23AP44** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391827 | gene-KRT18P16 | **KRT18P16** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391828 | gene-RPL28P3 | **RPL28P3** | ribosomal protein L28 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391833 | gene-RPS10P11 | **RPS10P11** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391834 | gene-ANKRD49P3 | **ANKRD49P3** | ANKRD49 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 391845 | gene-RPS15P6 | **RPS15P6** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 391850 | gene-RPL7AP33 | **RPL7AP33** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392100 | gene-PSMC1P3 | **PSMC1P3** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.040 |
| 392133 | NR_145518 | **OR10AC1** | olfactory receptor family | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 392138 | NM_001004488 | **OR2A25** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392180 | gene-LOC392180 | **LOC392180** | transcriptional adaptor 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392181 | gene-RPL23AP96 | **RPL23AP96** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392188 | NM_001256872 | **USP17L8** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392193 | gene-RPL19P13 | **RPL19P13** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392196 | NR_003275 | **LOC392196** | ubiquitin specific peptida | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392197 | NM_001256869 | **USP17L7** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392206 | gene-RPL10AP11 | **RPL10AP11** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392209 | gene-HSPA8P11 | **HSPA8P11** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 392214 | gene-KRT18P37 | **KRT18P37** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392221 | gene-CHCHD2P10 | **CHCHD2P10** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392225 | gene-PDCL3P1 | **PDCL3P1** | PDCL3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392226 | gene-LOC392226 | **LOC392226** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392232 | NR_033867 | **LOC392232** | transient receptor potent | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392242 | gene-REXO1L8P | **REXO1L8P** | REXO1 like 8, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392255 | NM_001001557 | **GDF6** | growth differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392256 | gene-RPS26P6 | **RPS26P6** | ribosomal protein S26 ps | pseudogene | 34 | 37 | 35 | 38 | 1.068 |
| 392264 | gene-LOC392264 | **LOC392264** | zinc finger protein 532 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392265 | gene-CDK5P1 | **CDK5P1** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392266 | gene-LOC392266 | **LOC392266** | hydroxysteroid 17-beta d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392267 | gene-IMPDH1P6 | **IMPDH1P6** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.104 |
| 392268 | gene-LOC392268 | **LOC392268** | neuropilin and tolloid like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392271 | gene-RPL32P20 | **RPL32P20** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392275 | NR_158554 | **SMPD5** | sphingomyelin phosphoc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392281 | gene-GPS2P1 | **GPS2P1** | G protein pathway suppr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392285 | gene-PPIAP33 | **PPIAP33** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392288 | gene-MAP1LC3BP1 | **MAP1LC3BP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392292 | gene-IFNWP5 | **IFNWP5** | interferon omega 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392298 | gene-CTAGE12P | **CTAGE12P** | CTAGE family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392301 | gene-SLC25A5P8 | **SLC25A5P8** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392302 | gene-ASS1P12 | **ASS1P12** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392305 | gene-GLULP4 | **GLULP4** | glutamate-ammonia liga | pseudogene | 0 | 0 | 1 | 1 | 1.027 |
| 392307 | NM_001012446,NR | **FAM221B** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392309 | NM_001004487 | **OR13J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392310 | gene-PGAM1P2 | **PGAM1P2** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392322 | gene-ATP5F1AP8 | **ATP5F1AP8** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392334 | gene-LOC392334 | **LOC392334** | calponin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392335 | gene-MYO5BP2 | **MYO5BP2** | myosin VB pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392343 | gene-CNN2P3 | **CNN2P3** | calponin 2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392350 | gene-BTF3P4 | **BTF3P4** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392352 | gene-PPIAP87 | **PPIAP87** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 392358 | gene-RPS6P13 | **RPS6P13** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392360 | NR_027917 | **CTSL3P** | cathepsin L family memb | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392364 | NR_040117 | **LOC392364** | nuclear pore associated | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392371 | gene-KRT18P13 | **KRT18P13** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392374 | gene-GAPDHP26 | **GAPDHP26** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392376 | NM_001004481 | **OR13C2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392382 | gene-RPL31P43 | **RPL31P43** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392387 | gene-AHCYP2 | **AHCYP2** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392390 | NM_001004453 | **OR1L6** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392391 | NM_001001923 | **OR5C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392392 | NM_080859 | **OR1K1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392399 | NM_001001676,XM | **LCN9** | lipocalin 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392433 | gene-MAGEB6B | **MAGEB6B** | MAGE family member B( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392437 | gene-FTLP2 | **FTLP2** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 392447 | gene-RPL32P36 | **RPL32P36** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392451 | gene-RPL19P20 | **RPL19P20** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392452 | NR_102268 | **MFFP3** | MFF pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392454 | gene-PCNAP3 | **PCNAP3** | proliferating cell nuclear | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392459 | NR_033924 | **CXXC1P1** | CXXC finger protein 1 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 392465 | NM_001080489,XM | **GLOD5** | glyoxalase domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392479 | gene-KRT8P17 | **KRT8P17** | keratin 8 pseudogene 17 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392490 | NM_207422 | **FLJ44635** | TPT1-like protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392497 | gene-RPS6P26 | **RPS6P26** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392501 | gene-RPL26P36 | **RPL26P36** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 392505 | gene-RPL6P29 | **RPL6P29** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392508 | gene-LOC392508 | **LOC392508** | RAD21 homolog (S. pom | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 392509 | NM_001162491,NR | **ARL13A** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392510 | gene-YWHAQP8 | **YWHAQP8** | YWHAQ pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392516 | gene-KRT18P49 | **KRT18P49** | keratin 18 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392517 | NM_001348372 | **NCBP2L** | nuclear cap binding prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392522 | gene-RPL18AP15 | **RPL18AP15** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392525 | gene-AKR1B1P8 | **AKR1B1P8** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392529 | gene-LOC392529 | **LOC392529** | cordon-bleu WH2 repeat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392536 | gene-LOC392536 | **LOC392536** | filamin binding LIM prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392539 | gene-LOC392539 | **LOC392539** | tight junction associated | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392543 | gene-LOC392543 | **LOC392543** | acylglycerol kinase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392545 | gene-HMGB3P31 | **HMGB3P31** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392547 | gene-CROCCP1 | **CROCCP1** | CROCC pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392552 | gene-KRT8P6 | **KRT8P6** | keratin 8 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392555 | gene-LOC392555 | **LOC392555** | MAGE family member C2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392557 | gene-RPL19P21 | **RPL19P21** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392617 | NM_001128636,XM | **ELFN1** | extracellular leucine rich | protein_coding | 1 | 1 | 2 | 2 | 1.154 |
| 392636 | NM_001004320,XM | **AGMO** | alkylglycerol monooxyge | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392713 | gene-PMS2P12 | **PMS2P12** | PMS1 homolog 2, misma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 392748 | gene-RPS27P17 | **RPS27P17** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.263 |
| 392781 | gene-RPS2P31 | **RPS2P31** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 392843 | NM_001304419,XR | **IQCA1L** | IQ motif containing with / | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392862 | NM_001145118,XM | **GRID2IP** | Grid2 interacting protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 392872 | gene-RPL12P10 | **RPL12P10** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.811 |
| 392979 | gene-RPL18P4 | **RPL18P4** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 393046 | NM_012365 | **OR2A5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 394217 | gene-FGF7P2 | **FGF7P2** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 394254 | gene-GPR89P | **GPR89P** | G protein-coupled recep | pseudogene | 1 | 2 | 2 | 3 | 1.260 |
| 394255 | gene-RPS10P1 | **RPS10P1** | ribosomal protein S10 ps | pseudogene | 1 | 1 | 2 | 2 | 0.950 |
| 394263 | NM_001010909,NR | **MUC21** | mucin 21, cell surface as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399473 | NM_001042522,NR | **SPRED3** | sprouty related EVH1 do | protein_coding | 1 | 1 | 2 | 2 | 0.833 |
| 399474 | NM_001003682,NM | **TMEM200B** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.076 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 399495 | gene-SLC2A3P4 | **SLC2A3P4** | solute carrier family 2 me | pseudogene | 0 | 0 | 1 | 1 | 1.036 |
| 399511 | gene-TCEA1P2 | **TCEA1P2** | transcription elongation f | pseudogene | 10 | 10 | 11 | 11 | 0.980 |
| 399512 | NM_001320870,NM | **SLC25A35** | solute carrier family 25 m | protein_coding | 2 | 2 | 3 | 3 | 1.014 |
| 399520 | gene-TIMM8AP1 | **TIMM8AP1** | translocase of inner mito | pseudogene | 0 | 0 | 1 | 1 | 1.313 |
| 399656 | gene-FAM32BP | **FAM32BP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 399664 | NM_001174118,NM | **MEX3D** | mex-3 RNA binding famil | protein_coding | 17 | 18 | 18 | 19 | 1.064 |
| 399665 | NM_001035254,NM | **FAM102A** | family with sequence sim | protein_coding | 5 | 4 | 6 | 5 | 0.911 |
| 399668 | NM_203306 | **SMIM10L2A** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399669 | NR_037805 | **ZNF321P** | zinc finger protein 321, p | transcribed_pseu | 1 | 1 | 2 | 2 | 1.003 |
| 399670 | NR_003680 | **RPL13AP17** | ribosomal protein L13a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 399671 | NM_001220484,NM | **HEATR4** | HEAT repeat containing | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 399687 | NM_001346765,NM | **MYO18A** | myosin XVIIIA | protein_coding | 11 | 10 | 12 | 11 | 0.923 |
| 399693 | NM_001291516,NM | **CCDC187** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399694 | NM_203349,XM_00 | **SHC4** | SHC adaptor protein 4 | protein_coding | 0 | 0 | 1 | 1 | 1.231 |
| 399697 | NM_001145668,NM | **CTXN2** | cortexin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399706 | NR_015376 | **LINC00200** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399708 | NR_038884 | **LINC00701** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399715 | NR_040079 | **LINC02649** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 399716 | NR_148966 | **LINC02656** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 399717 | NR_024256,NR_10 | **GATA3-AS1** | GATA3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.135 |
| 399726 | NR_160800 | **MIR1915HG** | MIR1915 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 399744 | NR_024497 | **LINC00999** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.009 |
| 399746 | NR_045000 | **ACTR3BP5** | ACTR3B pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 399761 | NR_003611 | **BMS1P1** | BMS1 pseudogene 1 | transcribed_pseu | 1 | 1 | 2 | 2 | 0.998 |
| 399774 | gene-THAP12P3 | **THAP12P3** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 399783 | gene-LOC399783 | **LOC399783** | zinc finger protein 532 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 399806 | NR_029380 | **LBX1-AS1** | LBX1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399814 | NM_001010912 | **C10orf120** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399815 | NR_027282 | **C10orf88B** | C10orf88B (pseudogene | transcribed_pseu | 8 | 7 | 9 | 8 | 0.938 |
| 399818 | NM_001304467,NM | **EEF1AKMT2** | EEF1A lysine methyltran | protein_coding | 20 | 17 | 21 | 18 | 0.842 |
| 399821 | NR_033847 | **EDRF1-DT** | EDRF1 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.089 |
| 399823 | NM_207426 | **FOXI2** | forkhead box I2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399827 | NR_038365 | **LINC01164** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.028 |
| 399829 | NR_046231 | **LINC01168** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399833 | NR_033789 | **SPRNP1** | shadow of prion protein p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 399839 | gene-DUX4L11 | **DUX4L11** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 399844 | NR_028324 | **LINC01002** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 399876 | NR_033989 | **NAV2-AS4** | NAV2 antisense RNA 4 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399881 | NR_033868 | **HNRNPKP3** | heterogeneous nuclear r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 399886 | NR_122071 | **LINC02687** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399888 | NM_001164379,NM | **FAM180B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.102 |
| 399900 | XR_247232 | **LOC399900** | uncharacterized LOC399 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 399909 | NM_032223,XM_00 | **PCNX3** | pecanex 3 | protein_coding | 34 | 35 | 35 | 36 | 1.019 |
| 399923 | NR_038862 | **ACTE1P** | actin epsilon 1, pseudog | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399937 | gene-TRIM51BP | **TRIM51BP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 399939 | NM_001206627,XM | **TRIM49D1** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399940 | NR_146921 | **TRIM51EP** | tripartite motif-containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 399942 | gene-TUBAP2 | **TUBAP2** | tubulin alpha pseudogen | pseudogene | 4 | 5 | 5 | 6 | 1.133 |
| 399947 | NM_207645,XM_01 | **C11orf87** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399948 | NM_001302644,NM | **COLCA1** | colorectal cancer associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399949 | NM_001100388,NM | **HOATZ** | HOATZ cilia and flagella | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399950 | gene-ST13P10 | **ST13P10** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 399959 | NR_024430,NR_13 | **MIR100HG** | mir-100-let-7a-2-mir-125b | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399965 | gene-KRT18P59 | **KRT18P59** | keratin 18 pseudogene 5 | pseudogene | 1 | 0 | 2 | 1 | 0.876 |
| 399967 | NM_212555 | **PATE2** | prostate and testis expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399968 | NM_001144874 | **PATE4** | prostate and testis expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399972 | NR_033839 | **GSEC** | G-quadruplex forming se | lncRNA | 1 | 1 | 2 | 2 | 1.236 |
| 399975 | NR_145484 | **LOC399975** | uncharacterized LOC399 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 399979 | NM_001301089,NM | **SNX19** | sorting nexin 19 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 399988 | gene-HSPA8P5 | **HSPA8P5** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.921 |
| 399994 | gene-HADHAP2 | **HADHAP2** | HADHA pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400002 | NR_135047 | **CLEC12A-AS1** | CLEC12A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400011 | gene-SUPT16HP1 | **SUPT16HP1** | SPT16 homolog, facilitat | pseudogene | 0 | 1 | 1 | 2 | 1.166 |
| 400013 | gene-TCP1P3 | **TCP1P3** | t-complex 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400026 | gene-LOC400026 | **LOC400026** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 400027 | NR_028408 | **LINC00938** | long intergenic non-prote | lncRNA | 17 | 15 | 18 | 16 | 0.921 |
| 400036 | gene-LOC400036 | **LOC400036** | DEAD-box helicase 23 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400043 | NR_026656 | **LINC02381** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400046 | NR_033988 | **LINC02389** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400055 | gene-RPL26P32 | **RPL26P32** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 0.913 |
| 400058 | NR_033410 | **MKRN9P** | makorin ring finger prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 400061 | gene-NSA2P2 | **NSA2P2** | NSA2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.977 |
| 400064 | gene-RPS4XP1 | **RPS4XP1** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.065 |
| 400073 | NM_207435,NR_14 | **C12orf76** | chromosome 12 open rea | protein_coding | 8 | 9 | 9 | 10 | 1.030 |
| 400084 | NR_034132 | **LINC00939** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400087 | NR_033987 | **LINC02393** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400110 | NR_073430 | **ANKRD20A19P** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 400120 | NM_203451 | **SERTM1** | serine rich and transmem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400121 | NR_040244 | **LINC00547** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400123 | NR_033877 | **LINC00548** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400126 | gene-DGKZP1 | **DGKZP1** | diacylglycerol kinase zet | pseudogene | 1 | 1 | 2 | 2 | 1.124 |
| 400128 | NR_104174 | **TUSC8** | tumor suppressor candic | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400129 | gene-SMARCE1P5 | **SMARCE1P5** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400141 | gene-RPSAP53 | **RPSAP53** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.072 |
| 400156 | gene-RPS26P47 | **RPS26P47** | ribosomal protein S26 ps | pseudogene | 3 | 3 | 4 | 4 | 1.182 |
| 400165 | NR_164109 | **ATP11AUN** | ATP11A upstream neighl | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400206 | gene-DPPA3P2 | **DPPA3P2** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400208 | NR_135286 | **LINC00517** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400209 | gene-YTHDF2P1 | **YTHDF2P1** | YTH domain family mem | pseudogene | 1 | 1 | 2 | 2 | 1.115 |
| 400212 | XR_001750764,XR_ | **LOC400212** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400221 | NR_039985 | **FLJ22447** | uncharacterized LOC400 | lncRNA | 1 | 1 | 2 | 2 | 0.904 |
| 400224 | NM_001161498,XM | **PLEKHD1** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 400236 | NR_036500 | **FOXN3-AS1** | FOXN3 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.913 |
| 400238 | NR_033986 | **LINC00642** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400242 | NR_015415 | **DICER1-AS1** | DICER1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 0.885 |
| 400258 | NM_001008404,NM | **C14orf180** | chromosome 14 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400322 | NR_002824 | **HERC2P2** | hect domain and RLD 2 p | transcribed_pseu | 8 | 7 | 9 | 8 | 0.836 |
| 400347 | gene-LOC400347 | **LOC400347** | REX4 homolog, 3'-5' exo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400359 | NR_160786 | **LINC02694** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.188 |
| 400360 | NR_144507,NR_14 | **C15orf54** | chromosome 15 putative | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400385 | gene-RPL5P3 | **RPL5P3** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 400389 | gene-RPL12P35 | **RPL12P35** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.165 |
| 400403 | gene-DNM1P9 | **DNM1P9** | dynamin 1 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400406 | gene-ADAMTS7P3 | **ADAMTS7P3** | ADAMTS7 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400410 | NR_037652,NR_03 | **ST20** | suppressor of tumorigen | lncRNA | 25 | 27 | 26 | 28 | 1.084 |
| 400433 | gene-DNM1P40 | **DNM1P40** | dynamin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400451 | NM_207446,XR_00 | **FAM174B** | family with sequence sim | protein_coding | 1 | 0 | 2 | 1 | 0.880 |
| 400456 | NR_034095 | **LINC01197** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400464 | NR_135737 | **LOC400464** | ubiquitin conjugating en: | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 400499 | NM_001370704,XM | **LOC400499** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400500 | NR_024049,NR_02 | **BCAR4** | breast cancer anti-estrog | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400506 | NM_001012991,NM | **KNOP1** | lysine rich nucleolar prot | protein_coding | 27 | 24 | 28 | 25 | 0.898 |
| 400508 | NR_026675 | **CRYM-AS1** | CRYM antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400511 | NR_122072 | **LINC01567** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400512 | NR_037184 | **NSMCE1-DT** | NSMCE1 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 400533 | NR_033985 | **LINC02167** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400541 | NR_126007 | **LOC400541** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400548 | NR_033984 | **LINC02139** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400550 | NR_033925,NR_03 | **FENDRR** | FOXF1 adjacent non-cod | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400553 | NR_120310 | **LOC400553** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400555 | NR_146877 | **ZC3H18-AS1** | ZC3H18 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 400558 | NR_046200 | **LINC02138** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400566 | NM_001013672 | **C17orf97** | chromosome 17 open rea | protein_coding | 2 | 2 | 3 | 3 | 1.096 |
| 400568 | NR_145431 | **LINC01996** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400569 | NM_001001683,NM | **MED11** | mediator complex subun | protein_coding | 15 | 14 | 16 | 15 | 0.961 |
| 400578 | NR_029392 | **KRT16P2** | keratin 16 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 400579 | NR_104343 | **LINC02076** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 400581 | NM_001129778,NM | **GRAPL** | GRB2 related adaptor pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400591 | NR_160787 | **C17orf102** | chromosome 17 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400604 | NR_038458 | **TOB1-AS1** | TOB1 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.199 |
| 400612 | NR_126169 | **PRR29-AS1** | PRR29 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400617 | NR_036534 | **KCNJ2-AS1** | KCNJ2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400618 | NR_103737,NR_10 | **SOX9-AS1** | SOX9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400619 | NR_033876 | **LINC00511** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400620 | NR_040020 | **LINC02092** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400622 | NR_148967 | **LOC400622** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400624 | NR_028337 | **LINC01973** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400627 | NR_148968 | **LOC400627** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400629 | NM_207459,XM_01 | **TEX19** | testis expressed 19 | protein_coding | 65 | 63 | 66 | 64 | 0.974 |
| 400643 | NR_034100 | **LINC00668** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400644 | NR_104164 | **LINC01443** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400652 | gene-RPS3AP49 | **RPS3AP49** | RPS3A pseudogene 49 | pseudogene | 0 | 0 | 1 | 1 | 0.862 |
| 400654 | NR_033983 | **LINC01538** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400655 | NR_034133 | **LINC02864** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400657 | NR_024484 | **LINC00909** | long intergenic non-prote | lncRNA | 6 | 5 | 7 | 6 | 0.906 |
| 400658 | NR_164145 | **ZNF516-DT** | ZNF516 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400660 | NR_120419 | **LINC00683** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400661 | NR_122073 | **LINC01879** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400668 | NM_001308209,NM | **PRSS57** | serine protease 57 | protein_coding | 10 | 13 | 11 | 14 | 1.244 |
| 400673 | NM_001017921 | **VMAC** | vimentin type intermedial | protein_coding | 1 | 1 | 2 | 2 | 1.031 |
| 400680 | NR_037194 | **LINC00664** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400682 | NR_144514 | **LOC400682** | zinc finger protein 100-lik | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 400684 | NR_046201 | **LOC400684** | uncharacterized LOC400 | lncRNA | 1 | 2 | 2 | 3 | 1.355 |
| 400685 | NR_033982 | **LINC01801** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400696 | NR_034156 | **LGALS17A** | galectin 14 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 400709 | NM_001348364,NR | **SIGLEC16** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400710 | NR_027257,NR_13 | **LOC400710** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.164 |
| 400713 | NM_001145434,XM | **ZNF880** | zinc finger protein 880 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400720 | NM_001024596,NM | **ZNF772** | zinc finger protein 772 | protein_coding | 12 | 12 | 13 | 13 | 1.052 |
| 400728 | NR_103536 | **FAM87B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400735 | NM_001009611 | **PRAMEF4** | PRAME family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400736 | NM_001291380,XM | **PRAMEF13** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400743 | NR_148993 | **LINC02783** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400745 | NM_001103160,NM | **SH2D5** | SH2 domain containing 5 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 400746 | NM_001010980,XM | **NCMAP** | non-compact myelin ass | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400748 | XR_947140 | **LOC400748** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400750 | gene-HSPA5P1 | **HSPA5P1** | HSPA5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.937 |
| 400752 | NR_024270 | **LINC01144** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.107 |
| 400757 | NM_001276351,NM | **C1orf141** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400759 | NR_003133 | **GBP1P1** | guanylate binding protei | transcribed_pseu | 2 | 1 | 3 | 2 | 0.931 |
| 400761 | NR_033981 | **LRRC8C-DT** | LRRC8C divergent transc | lncRNA | 5 | 5 | 6 | 6 | 1.000 |
| 400765 | NR_046105 | **MIR137HG** | MIR137 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400769 | gene-HNRNPA1P43 | **HNRNPA1P43** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 400793 | NM_001085375,NM | **C1orf226** | chromosome 1 open rea | protein_coding | 1 | 2 | 2 | 3 | 1.137 |
| 400794 | NR_026744 | **LRRC52-AS1** | LRRC52 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400798 | NR_033186 | **C1orf220** | chromosome 1 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400799 | NR_104175 | **LINC01344** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400800 | NR_147896 | **LINC02789** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400804 | NR_024236 | **LINC02817** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400812 | NR_147502 | **FLJ39095** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 400818 | NM_001037675,NM | **NBPF9** | NBPF member 9 | protein_coding | 1 | 1 | 2 | 2 | 0.898 |
| 400823 | NM_001324080,NM | **FAM177B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.969 |
| 400830 | NM_207469 | **DEFB132** | defensin beta 132 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400831 | NM_001009612 | **C20orf202** | chromosome 20 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400836 | gene-SDAD1P2 | **SDAD1P2** | SDA1 domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 400839 | NR_040102 | **LINC01721** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400841 | NR_145432 | **LINC01597** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400866 | NR_027065,NR_02 | **LINC00114** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400867 | NR_120405 | **LOC400867** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400891 | NM_001291006,NR | **LRRC74B** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400892 | NR_037566 | **BCRP2** | BCR pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.124 |
| 400916 | NM_001301339,NM | **CHCHD10** | coiled-coil-helix-coiled-cc | protein_coding | 59 | 68 | 60 | 69 | 1.146 |
| 400927 | NR_002821 | **TPTEP2** | TPTE pseudogene 2 | transcribed_pseu | 5 | 3 | 6 | 4 | 0.718 |
| 400931 | NR_027033,NR_11 | **MIRLET7BHG** | MIRLET7B host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400932 | NR_033377 | **LINC00898** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400935 | NM_001001694,NM | **IL17REL** | interleukin 17 receptor E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 400940 | NR_026833 | **LOC400940** | uncharacterized LOC400 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400941 | NR_038369 | **LINC00487** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400945 | NR_135287 | **LINC01376** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400946 | NR_033875 | **LINC00954** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400950 | NR_161189 | **C2orf91** | chromosome 2 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400952 | NR_033831 | **LINC01121** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400954 | NM_001039753,XM | **EML6** | EMAP like 6 | protein_coding | 2 | 3 | 3 | 4 | 1.175 |
| 400955 | NR_033873 | **LINC01122** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400957 | NR_033980 | **LINC01185** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400958 | NR_036586 | **LINC02245** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 400960 | NR_033872 | **PCBP1-AS1** | PCBP1 antisense RNA 1 | lncRNA | 5 | 5 | 6 | 6 | 1.004 |
| 400961 | NM_020459,XM_00 | **PAIP2B** | poly(A) binding protein in | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 400963 | gene-RPS2P17 | **RPS2P17** | ribosomal protein S2 pse | pseudogene | 0 | 1 | 1 | 2 | 1.360 |
| 400966 | NM_001024457,NM | **RGPD1** | RANBP2 like and GRIP c | protein_coding | 1 | 1 | 2 | 2 | 0.920 |
| 400986 | NM_001310154 | **ANKRD36C** | ankyrin repeat domain 36 | protein_coding | 2 | 2 | 3 | 3 | 0.801 |
| 400997 | NR_122074 | **ACOXL-AS1** | ACOXL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 400999 | NR_033871 | **FLJ42351** | uncharacterized LOC400 | lncRNA | 0 | 1 | 1 | 2 | 1.390 |
| 401002 | gene-SSBP3P2 | **SSBP3P2** | SSBP3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401007 | gene-NF1P8 | **NF1P8** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401010 | NR_002826 | **NOC2LP2** | NOC2 like nucleolar ass | transcribed_pseu | 0 | 0 | 1 | 1 | 1.001 |
| 401014 | NR_033870 | **TEX41** | testis expressed 41 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401018 | gene-CTAGE14P | **CTAGE14P** | CTAGE family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401019 | gene-RPS15P4 | **RPS15P4** | ribosomal protein S15 ps | pseudogene | 8 | 8 | 9 | 9 | 0.966 |
| 401021 | NR_148241 | **LOC401021** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401022 | NR_033979,NR_11 | **HAGLR** | HOXD antisense growth- | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401024 | NM_173651,XM_02 | **FSIP2** | fibrous sheath interacting | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401027 | NM_213608 | **C2orf66** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.871 |
| 401036 | NM_212556 | **ASB18** | ankyrin repeat and SOC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401039 | NR_034162 | **LINC01940** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401040 | XM_011512295,XR | **LOC401040** | uncharacterized LOC401 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401067 | NM_001085479,NM | **IQCF3** | IQ motif containing F3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401074 | NR_040004,NR_04 | **LINC00960** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401081 | NM_001351622,NR | **C3orf85** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401082 | NR_109841,NR_10 | **LINC01205** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401089 | NM_001040061,XM | **FOXL2NB** | FOXL2 neighbor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401093 | NR_027037,NR_02 | **MBNL1-AS1** | MBNL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.049 |
| 401097 | NM_001168214 | **C3orf80** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401103 | NR_040105 | **LINC01994** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401105 | NR_024413 | **FLJ42393** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401106 | NR_033929 | **LINC00884** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.856 |
| 401109 | NR_034088 | **LINC00885** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401115 | NM_001141936,NM | **C4orf48** | chromosome 4 open rea | protein_coding | 6 | 7 | 7 | 8 | 1.067 |
| 401124 | NM_001136536,NM | **DTHD1** | death domain containing | protein_coding | 2 | 2 | 3 | 3 | 1.015 |
| 401127 | NR_026854 | **LOC401127** | WD repeat domain 5 pse | transcribed_pseu | 1 | 1 | 2 | 2 | 0.842 |
| 401134 | NR_033976 | **LINC02232** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401135 | NR_027094 | **SYT14P1** | synaptotagmin 14 pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401136 | NR_104048 | **TMPRSS11BNL** | TMPRSS11B N-terminal | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401137 | NM_214711 | **PRR27** | proline rich 27 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401138 | NM_001286731,NM | **AMTN** | amelotin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401145 | NM_001145065,NM | **CCSER1** | coiled-coil serine rich prc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401149 | NR_037596 | **LINC01061** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.967 |
| 401152 | NM_001001701,NM | **C4orf3** | chromosome 4 open rea | protein_coding | 38 | 36 | 39 | 37 | 0.936 |
| 401164 | NR_033869 | **LINC01060** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401172 | NR_028351 | **LINC02145** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 401176 | NR_149044 | **LOC401176** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401177 | NR_033975 | **LINC02111** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 401190 | NM_001029875,NM | **RGS7BP** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401206 | gene-RPS25P6 | **RPS25P6** | ribosomal protein S25 ps | pseudogene | 7 | 10 | 8 | 11 | 1.343 |
| 401207 | NM_001164478,NM | **C5orf63** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401218 | gene-LOC401218 | **LOC401218** | cyclin Q pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.080 |
| 401232 | NR_026856 | **LINC01011** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.147 |
| 401233 | NR_033884 | **HTATSF1P2** | HIV-1 Tat specific factor | transcribed_pseu | 3 | 3 | 4 | 4 | 0.903 |
| 401236 | NM_001190766 | **STMND1** | stathmin domain contain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401237 | NR_015410 | **CASC15** | cancer susceptibility 15 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401242 | NR_033379 | **LINC01623** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 401247 | NR_130726 | **LINC00243** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401250 | NM_001011700 | **MCCD1** | mitochondrial coiled-coil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401251 | NM_001039651 | **SAPCD1** | suppressor APC domain | protein_coding | 1 | 0 | 2 | 1 | 0.687 |
| 401253 | NR_027908 | **LINC00336** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401258 | NM_001257357,XM | **RAB44** | RAB44, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401260 | NR_038887 | **LINC00951** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401261 | NR_134654 | **LOC401261** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 401262 | NM_001366068,NM | **CRIP3** | cysteine rich protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401264 | NR_103446,NR_10 | **TRAM2-AS1** | TRAM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401265 | NM_001003760,XM | **KLHL31** | kelch like family member | protein_coding | 1 | 1 | 2 | 2 | 0.983 |
| 401282 | NR_033862 | **DKFZp451B082** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401285 | XR_001743415 | **TCP10L2** | t-complex 10 like 2, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401286 | NR_117091 | **LINC02538** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401288 | NR_026781 | **LINC00242** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401289 | NR_104177 | **LINC01624** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401296 | XR_001745051,XR | **LNCRI** | lncRNA radiation induce | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401303 | NR_023382 | **ZNF815P** | zinc finger protein 815, p | transcribed_pseu | 3 | 2 | 4 | 3 | 0.925 |
| 401312 | NR_122075 | **LOC401312** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401316 | gene-EIF4HP1 | **EIF4HP1** | eukaryotic translation init | pseudogene | 40 | 41 | 41 | 42 | 1.024 |
| 401320 | NR_038889 | **GARS1-DT** | GARS1 divergent transcr | lncRNA | 1 | 1 | 2 | 2 | 0.884 |
| 401321 | NR_036501 | **LINC00997** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401324 | NR_038864 | **LOC401324** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401331 | NR_024116 | **RASA4CP** | RAS p21 protein activato | transcribed_pseu | 13 | 16 | 14 | 17 | 1.232 |
| 401335 | NM_001123065 | **C7orf65** | chromosome 7 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401337 | NR_038371 | **LINC01446** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401357 | NR_130727 | **LOC401357** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401375 | gene-GTF2IRD2P1 | **GTF2IRD2P1** | GTF2I repeat domain co | pseudogene | 1 | 1 | 2 | 2 | 1.008 |
| 401387 | NM_001161528 | **LRRD1** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.058 |
| 401393 | gene-AZGP1P2 | **AZGP1P2** | AZGP1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401397 | NM_001352687,NM | **SMIM30** | small integral membrane | protein_coding | 70 | 68 | 71 | 69 | 0.970 |
| 401398 | NR_125718,NR_12 | **POT1-AS1** | POT1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.044 |
| 401399 | NM_001114726,NM | **PRRT4** | proline rich transmembra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401409 | NM_001008749,XM | **RAB19** | RAB19, member RAS on | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401427 | NM_001005328 | **OR2A7** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401428 | NR_002158 | **OR2A20P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401431 | NR_027040 | **ATP6V0E2-AS1** | ATP6V0E2 antisense RN | lncRNA | 0 | 1 | 1 | 2 | 1.466 |
| 401442 | NR_134292 | **LOC401442** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401447 | NM_001256873 | **USP17L1** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401463 | NR_015374,NR_15 | **LOC401463** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401466 | NM_001099670,NM | **RBIS** | ribosomal biogenesis fac | protein_coding | 134 | 131 | 135 | 132 | 0.977 |
| 401470 | gene-RPS26P10 | **RPS26P10** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 0.898 |
| 401471 | XR_001745729 | **LOC401471** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401472 | NR_149020 | **GASAL1** | growth arrest associated | lncRNA | 1 | 1 | 2 | 2 | 1.184 |
| 401474 | NM_001101676,NM | **SAMD12** | sterile alpha motif domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401475 | gene-SRRM1P1 | **SRRM1P1** | serine/arginine repetitive | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 401478 | NR_161374 | **LOC401478** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401491 | NR_015375 | **VLDLR-AS1** | VLDLR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.912 |
| 401492 | NR_033863 | **LINC01235** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401494 | NM_001010915,NM | **HACD4** | 3-hydroxyacyl-CoA dehy | protein_coding | 2 | 2 | 3 | 3 | 0.913 |
| 401497 | NR_046204 | **LINC01242** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401498 | NM_212558,XR_92 | **TMEM215** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401505 | NM_001001790,NM | **TOMM5** | translocase of outer mito | protein_coding | 257 | 270 | 258 | 271 | 1.050 |
| 401507 | NR_026803 | **FAM74A1** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401508 | NR_026802,NR_11 | **FAM74A4** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401509 | NR_003528 | **ZNF658B** | zinc finger protein 658B | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401525 | gene-CDK2AP2P3 | **CDK2AP2P3** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.142 |
| 401533 | gene-DDX10P2 | **DDX10P2** | DEAD-box helicase 10 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401535 | NR_161226 | **LINC02872** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401537 | gene-RPSAP49 | **RPSAP49** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 401541 | NM_001012267,NM | **CENPP** | centromere protein P | protein_coding | 12 | 9 | 13 | 10 | 0.836 |
| 401546 | NM_001012993 | **C9orf152** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401548 | NM_001012994,XM | **SNX30** | sorting nexin family mem | protein_coding | 7 | 5 | 8 | 6 | 0.734 |
| 401551 | NM_001045476,NM | **WDR38** | WD repeat domain 38 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401554 | NR_135124 | **GPRACR** | GPR107 adjacent cis reg | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401557 | NR_046107 | **LOC401557** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401561 | NR_135288 | **LINC01451** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401562 | NM_207510 | **LCNL1** | lipocalin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401563 | NM_207511,XM_01 | **C9orf139** | chromosome 9 open rea | protein_coding | 1 | 1 | 2 | 2 | 0.802 |
| 401565 | NM_001001710,XM | **FAM166A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 0.943 |
| 401577 | NR_033380,NR_03 | **CD99P1** | CD99 molecule pseudog | transcribed_pseu | 2 | 2 | 3 | 3 | 0.882 |
| 401585 | NR_125365 | **LINC02595** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.836 |
| 401588 | NR_015378 | **ZNF674-AS1** | ZNF674 antisense RNA 1 | lncRNA | 7 | 5 | 8 | 6 | 0.817 |
| 401589 | XR_132683 | **LOC401589** | uncharacterized LOC401 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401602 | gene-AP2B1P1 | **AP2B1P1** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 401612 | NM_001012755,XM | **SLC25A53** | solute carrier family 25 m | protein_coding | 12 | 11 | 13 | 12 | 0.895 |
| 401613 | NM_001354473 | **SERTM2** | serine rich and transmem | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401629 | NR_002160 | **FAM224B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401630 | NR_002161 | **FAM224A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 401634 | NR_002195 | **GOLGA2P3Y** | GOLGA2 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401638 | gene-RPSAP10 | **RPSAP10** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401640 | gene-RPL7AP53 | **RPL7AP53** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401647 | NM_001010917 | **GOLGA7B** | golgin A7 family member | protein_coding | 1 | 1 | 2 | 2 | 0.847 |
| 401648 | gene-ST13P13 | **ST13P13** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 401663 | NM_001348291 | **OR51H1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401665 | NM_001004759 | **OR51T1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401666 | NM_001005329 | **OR51A4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401667 | NM_001004748 | **OR51A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401679 | gene-LOC401679 | **LOC401679** | filamin binding LIM prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401708 | gene-GLULP3 | **GLULP3** | glutamate-ammonia liga | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401717 | gene-EEF1A1P17 | **EEF1A1P17** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 401720 | NM_001013690,XM | **FIGNL2** | fidgetin like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 401725 | gene-RPL6P25 | **RPL6P25** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401730 | gene-IPMKP1 | **IPMKP1** | inositol polyphosphate m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401744 | gene-SMARCE1P3 | **SMARCE1P3** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401767 | gene-LOC401767 | **LOC401767** | glycerol-3-phosphate ac | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401770 | gene-LOC401770 | **LOC401770** | DET1 and DDB1 associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401777 | gene-LOC401777 | **LOC401777** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401805 | gene-LOC401805 | **LOC401805** | ring finger protein 145 ps | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 401817 | gene-RPS10P22 | **RPS10P22** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.086 |
| 401822 | gene-FDPSP9 | **FDPSP9** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401825 | gene-NIFKP1 | **NIFKP1** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401863 | gene-RPL10AP12 | **RPL10AP12** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401865 | gene-RPL7AP63 | **RPL7AP63** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401875 | gene-LOC401875 | **LOC401875** | differentially expressed ir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401895 | gene-RPS15P9 | **RPS15P9** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401898 | NR_028594 | **ZNF833P** | zinc finger protein 833, p | transcribed_pseu | 0 | 0 | 1 | 1 | 0.824 |
| 401904 | gene-RPL23AP2 | **RPL23AP2** | ribosomal protein L23a p | pseudogene | 2 | 2 | 3 | 3 | 1.057 |
| 401911 | gene-RPL29P33 | **RPL29P33** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 401914 | gene-CTBP2P7 | **CTBP2P7** | CTBP2 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401934 | NM_001205252 | **RNF223** | ring finger protein 223 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401944 | NM_001013693,XM | **LDLRAD2** | low density lipoprotein re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401957 | gene-LOC401957 | **LOC401957** | matrin 3 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.958 |
| 401959 | gene-VDAC2P3 | **VDAC2P3** | VDAC2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401960 | gene-GAPDHP27 | **GAPDHP27** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401974 | gene-RPS2P10 | **RPS2P10** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401975 | gene-RPS3AP10 | **RPS3AP10** | RPS3A pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401981 | gene-FDPSP8 | **FDPSP8** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 0.933 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 401982 | gene-AKR1B1P1 | **AKR1B1P1** | aldehyde reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 401983 | NR_036753 | **ZNF847P** | zinc finger protein 847, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 401992 | NM_001004136 | **OR2T2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401993 | NM_001004697 | **OR2T5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 401994 | NM_001004734,XM_ | **OR14I1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402055 | NM_001013694,XM | **SRRD** | SRR1 domain containing | protein_coding | 23 | 19 | 24 | 20 | 0.850 |
| 402057 | gene-RPS17P16 | **RPS17P16** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.810 |
| 402069 | gene-RPS16P2 | **RPS16P2** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402076 | gene-FBXL12P1 | **FBXL12P1** | FBXL12 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402093 | gene-AHCYP3 | **AHCYP3** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402096 | NR_157576 | **ANAPC1P6** | ANAPC1 pseudogene 6 | transcribed_pseu | 2 | 2 | 3 | 3 | 1.036 |
| 402100 | gene-RPL22P11 | **RPL22P11** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 0.972 |
| 402112 | gene-HNRNPA1P39 | **HNRNPA1P39** | heterogeneous nuclear r | pseudogene | 1 | 0 | 2 | 1 | 0.684 |
| 402116 | gene-PKP4P1 | **PKP4P1** | plakophilin 4 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402117 | NM_001080500,NM | **VWC2L** | von Willebrand factor C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402120 | gene-RPL23P5 | **RPL23P5** | ribosomal protein L23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402123 | gene-RPSAP32 | **RPSAP32** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402125 | gene-HSPA8P18 | **HSPA8P18** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402134 | gene-KRT8P25 | **KRT8P25** | keratin 8 pseudogene 25 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402135 | NM_001004737 | **OR5K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402143 | gene-HSPA8P9 | **HSPA8P9** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.972 |
| 402146 | gene-B3GAT3P1 | **B3GAT3P1** | beta-1,3-glucuronyltrans | pseudogene | 0 | 1 | 1 | 2 | 1.139 |
| 402149 | gene-RPL28P1 | **RPL28P1** | ribosomal protein L28 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402150 | gene-RPL8P4 | **RPL8P4** | ribosomal protein L8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 402152 | gene-RPL7L1P8 | **RPL7L1P8** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 0.915 |
| 402160 | NM_001193282,XM | **CFAP99** | cilia and flagella associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402175 | gene-NDUFB4P12 | **NDUFB4P12** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 402176 | NR_027153 | **RPL21P44** | ribosomal protein L21 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 402182 | gene-PIMREGP2 | **PIMREGP2** | PIMREG pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402184 | gene-RPS12P8 | **RPS12P8** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402191 | gene-NOL8P1 | **NOL8P1** | nucleolar protein 8 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402192 | gene-LOC402192 | **LOC402192** | chloride nucleotide-sens | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402193 | gene-RPL5P11 | **RPL5P11** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402213 | gene-PPIAP77 | **PPIAP77** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 402214 | gene-RPL13AP13 | **RPL13AP13** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402216 | gene-HNRNPH1P3 | **HNRNPH1P3** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402220 | gene-YTHDF1P1 | **YTHDF1P1** | YTH domain family mem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402221 | gene-LOC402221 | **LOC402221** | actin beta pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 402222 | gene-DDX18P4 | **DDX18P4** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402226 | gene-CCT5P1 | **CCT5P1** | chaperonin containing T | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 402229 | gene-LOC402229 | **LOC402229** | SURP and G-patch dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402230 | gene-LOC402230 | **LOC402230** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402279 | gene-LOC402279 | **LOC402279** | glutamate metabotropic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402287 | gene-RPS3AP21 | **RPS3AP21** | RPS3A pseudogene 21 | pseudogene | 1 | 2 | 2 | 3 | 1.204 |
| 402317 | NM_001001802 | **OR2A42** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402342 | gene-RPL13AP18 | **RPL13AP18** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402359 | gene-KHSRPP1 | **KHSRPP1** | KH-type splicing regulat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402360 | gene-NOP56P2 | **NOP56P2** | NOP56 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402375 | gene-YBX1P6 | **YBX1P6** | Y-box binding protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402381 | NM_001012415,NM | **SOHLH1** | spermatogenesis and oo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402394 | gene-IMPDH1P2 | **IMPDH1P2** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402408 | gene-PKMP2 | **PKMP2** | pyruvate kinase M1/2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402415 | NM_212559,XM_005 | **XKRX** | XK related X-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402420 | gene-EEF1A1P30 | **EEF1A1P30** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.095 |
| 402422 | gene-TUBB4AP1 | **TUBB4AP1** | tubulin beta 4A class IVa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402425 | gene-NT5DC1P2 | **NT5DC1P2** | 5'-nucleotidase domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402429 | gene-KRT8P8 | **KRT8P8** | keratin 8 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402483 | NR_024368 | **LINC01000** | long intergenic non-prote | lncRNA | 10 | 10 | 11 | 11 | 1.025 |
| 402509 | gene-SLC29A4P1 | **SLC29A4P1** | solute carrier family 29 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402562 | gene-HNRNPA1P8 | **HNRNPA1P8** | heterogeneous nuclear r | pseudogene | 3 | 2 | 4 | 3 | 0.903 |
| 402569 | NM_001145715,XM | **KPNA7** | karyopherin subunit alph | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402573 | NM_001004323 | **C7orf61** | chromosome 7 open rea | protein_coding | 1 | 1 | 2 | 2 | 1.302 |
| 402634 | gene-LOC402634 | **LOC402634** | neugrin, neurite outgrow | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402635 | NM_001291784,XM | **GRIFIN** | galectin-related inter-fibe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402641 | gene-LOC402641 | **LOC402641** | v-ral simian leukemia viral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402643 | gene-TPM3P4 | **TPM3P4** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402644 | gene-PPIAP80 | **PPIAP80** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402665 | NM_001101372 | **IGLON5** | IgLON family member 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 402676 | gene-NDUFAF4P2 | **NDUFAF4P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402682 | NM_001015072 | **UFSP1** | UFM1 specific peptidase | protein_coding | 1 | 1 | 2 | 2 | 0.858 |
| 402694 | gene-RPL15P11 | **RPL15P11** | ribosomal protein L15 ps | pseudogene | 1 | 1 | 2 | 2 | 0.903 |
| 402715 | gene-LOC402715 | **LOC402715** | karyopherin subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402716 | gene-RPL32P17 | **RPL32P17** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 402778 | NM_001170820 | **IFITM10** | interferon induced transr | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 402779 | NR_038372 | **CSMD2-AS1** | CSMD2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 403150 | NR_103831 | **FLJ31356** | uncharacterized protein I | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 403239 | NM_001001824 | **OR2T27** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403241 | gene-OR2T32P | **OR2T32P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 403244 | NM_001001827 | **OR2T35** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403251 | gene-OR4A45P | **OR4A45P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 403253 | NM_001005512 | **OR4A47** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403257 | NR_160275 | **OR4C45** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 403273 | NM_001005514 | **OR5H14** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403274 | NM_001005515 | **OR5H15** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403277 | NM_001005516 | **OR5K3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403278 | NM_001005517 | **OR5K4** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403282 | NM_001005518 | **OR6C65** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403284 | NM_001005519 | **OR6C68** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403296 | gene-OR7E154P | **OR7E154P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 403312 | NR_164146,NR_164 | **LOC403312** | putative uncharacterized | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 403313 | NM_203453 | **PLPP6** | phospholipid phosphatas | protein_coding | 9 | 9 | 10 | 10 | 1.020 |
| 403314 | NM_203454 | **APOBEC4** | apolipoprotein B mRNA e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 403315 | NR_003612 | **CIBAR1P2** | CIBAR1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 403323 | NR_122076,NR_122 | **LERFS** | lncRNA negative regulat | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 403341 | NM_001099270,XM | **ZBTB34** | zinc finger and BTB dom | protein_coding | 4 | 4 | 5 | 5 | 0.928 |
| 404037 | NM_023002 | **HAPLN4** | hyaluronan and proteogl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 404093 | NM_001271875,NM | **CUEDC1** | CUE domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 404199 | gene-PPIHP2 | **PPIHP2** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 404201 | NR_015359,NR_152 | **WDFY3-AS2** | WDFY3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 404203 | NM_001195290,NM | **SPINK6** | serine peptidase inhibito | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 404216 | NR_103717 | **LINC01561** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 404217 | NM_206833 | **CTXN1** | cortexin 1 | protein_coding | 0 | 0 | 1 | 1 | 0.760 |
| 404220 | NM_001085401,NR_ | **C6orf201** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 404266 | NR_033201,NR_033 | **HOXB-AS3** | HOXB cluster antisense | lncRNA | 0 | 1 | 1 | 2 | 1.060 |
| 404281 | NM_206923 | **YY2** | YY2 transcription factor | protein_coding | 6 | 8 | 7 | 9 | 1.177 |
| 404550 | NM_206967,NR_162 | **C16orf74** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 404551 | gene-RWDD1P1 | **RWDD1P1** | RWD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 404552 | NM_206998 | **SCGB1D4** | secretoglobin family 1D r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 404635 | gene-NANOGP1 | **NANOGP1** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 404636 | NM_001303111,NM | **DENND10** | DENN domain containing | protein_coding | 45 | 35 | 46 | 36 | 0.799 |
| 404663 | NR_033383 | **LINC01194** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 404665 | NR_038865 | **CACTIN-AS1** | CACTIN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 404672 | NM_207118,XM_01 | **GTF2H5** | general transcription fact | protein_coding | 5 | 5 | 6 | 6 | 0.951 |
| 404734 | NM_020690 | **ANKHD1-EIF4EBP3** | ANKHD1-EIF4EBP3 reac | protein_coding | 8 | 8 | 9 | 9 | 0.960 |
| 404744 | NR_015356,NR_033 | **NPSR1-AS1** | NPSR1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 404766 | gene-FABP5P4 | **FABP5P4** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 404785 | NM_001005356,NR_ | **POTEG** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 405753 | NM_207581,XM_01 | **DUOXA2** | dual oxidase maturation | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 405754 | NM_207582 | **ERVFRD-1** | endogenous retrovirus g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 406875 | gene-FXYD6P3 | **FXYD6P3** | FXYD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 406881 | NR_029476,rna-MIR | **MIRLET7A1** | microRNA let-7a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406882 | NR_029477,rna-MIR | **MIRLET7A2** | microRNA let-7a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406883 | NR_029478,rna-MIR | **MIRLET7A3** | microRNA let-7a-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406884 | NR_029479,rna-MIR | **MIRLET7B** | microRNA let-7b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406885 | NR_029480,rna-MIR | **MIRLET7C** | microRNA let-7c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406886 | NR_029481,rna-MIR | **MIRLET7D** | microRNA let-7d | miRNA | 2 | 5 | 3 | 6 | 1.751 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 406887 | NR_029482,rna-MIF | **MIRLET7E** | microRNA let-7e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406888 | NR_029483,rna-MIF | **MIRLET7F1** | microRNA let-7f-1 | miRNA | 0 | 0 | 1 | 1 | 1.500 |
| 406889 | NR_029484,rna-MIF | **MIRLET7F2** | microRNA let-7f-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406890 | NR_029660,rna-MIF | **MIRLET7G** | microRNA let-7g | miRNA | 0 | 0 | 1 | 1 | 0.679 |
| 406891 | NR_029661,rna-MIF | **MIRLET7I** | microRNA let-7i | miRNA | 0 | 0 | 1 | 1 | 0.876 |
| 406892 | NR_029515,rna-MIF | **MIR100** | microRNA 100 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406893 | NR_029516,rna-MIF | **MIR101-1** | microRNA 101-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406894 | NR_029836,rna-MIF | **MIR101-2** | microRNA 101-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406895 | NR_029520,rna-MIF | **MIR103A1** | microRNA 103a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406896 | NR_029519,rna-MIF | **MIR103A2** | microRNA 103a-2 | miRNA | 0 | 1 | 1 | 2 | 1.816 |
| 406897 | NR_029521,rna-MIF | **MIR105-1** | microRNA 105-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406898 | NR_029522,rna-MIF | **MIR105-2** | microRNA 105-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406899 | NR_029523,rna-MIF | **MIR106A** | microRNA 106a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406900 | NR_029831,rna-MIF | **MIR106B** | microRNA 106b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406901 | NR_029524,rna-MIF | **MIR107** | microRNA 107 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406902 | NR_029608,rna-MIF | **MIR10A** | microRNA 10a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406903 | NR_029609,rna-MIF | **MIR10B** | microRNA 10b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406904 | NR_029780,rna-MIF | **MIR1-1** | microRNA 1-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406905 | NR_029662,rna-MIF | **MIR1-2** | microRNA 1-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406906 | NR_029667,rna-MIF | **MIR122** | microRNA 122 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406907 | NR_029668,rna-MIF | **MIR124-1** | microRNA 124-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406908 | NR_029669,rna-MIF | **MIR124-2** | microRNA 124-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406909 | NR_029670,rna-MIF | **MIR124-3** | microRNA 124-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406910 | NR_029693,rna-MIF | **MIR125A** | microRNA 125a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406911 | NR_029671,rna-MIF | **MIR125B1** | microRNA 125b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406912 | NR_029694,rna-MIF | **MIR125B2** | microRNA 125b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406913 | NR_029695,rna-MIF | **MIR126** | microRNA 126 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406914 | NR_029696,rna-MIF | **MIR127** | microRNA 127 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406915 | NR_029672,rna-MIF | **MIR128-1** | microRNA 128-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406916 | NR_029824,rna-MIF | **MIR128-2** | microRNA 128-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406917 | NR_029596,rna-MIF | **MIR129-1** | microRNA 129-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406918 | NR_029697,rna-MIF | **MIR129-2** | microRNA 129-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406919 | NR_029673,rna-MIF | **MIR130A** | microRNA 130a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406920 | NR_029845,rna-MIF | **MIR130B** | microRNA 130b | miRNA | 0 | 1 | 1 | 2 | 1.533 |
| 406921 | NR_029674,rna-MIF | **MIR132** | microRNA 132 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406922 | NR_029675,rna-MIF | **MIR133A1** | microRNA 133a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406923 | NR_029676,rna-MIF | **MIR133A2** | microRNA 133a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406924 | NR_029698,rna-MIF | **MIR134** | microRNA 134 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406925 | NR_029677,rna-MIF | **MIR135A1** | microRNA 135a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406926 | NR_029678,rna-MIF | **MIR135A2** | microRNA 135a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406927 | NR_029699,rna-MIF | **MIR136** | microRNA 136 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406928 | NR_029679,rna-MIF | **MIR137** | microRNA 137 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406929 | NR_029700,rna-MIF | **MIR138-1** | microRNA 138-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406930 | NR_029680,rna-MIF | **MIR138-2** | microRNA 138-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406931 | NR_029603,rna-MIF | **MIR139** | microRNA 139 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406932 | NR_029681,rna-MIF | **MIR140** | microRNA 140 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406933 | NR_029682,rna-MIF | **MIR141** | microRNA 141 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406934 | NR_029683,rna-MIF | **MIR142** | microRNA 142 | miRNA | 13 | 11 | 14 | 12 | 0.856 |
| 406935 | NR_029684,rna-MIF | **MIR143** | microRNA 143 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406936 | NR_029685,rna-MIF | **MIR144** | microRNA 144 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406937 | NR_029686,rna-MIF | **MIR145** | microRNA 145 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406938 | NR_029701,rna-MIF | **MIR146A** | microRNA 146a | miRNA | 0 | 0 | 1 | 1 | 0.899 |
| 406939 | NR_029604,rna-MIF | **MIR147A** | microRNA 147a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406940 | NR_029597,rna-MIF | **MIR148A** | microRNA 148a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406941 | NR_029702,rna-MIF | **MIR149** | microRNA 149 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406942 | NR_029703,rna-MIF | **MIR150** | microRNA 150 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406943 | NR_029687,rna-MIF | **MIR152** | microRNA 152 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406944 | NR_029688,rna-MIF | **MIR153-1** | microRNA 153-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406945 | NR_029689,rna-MIF | **MIR153-2** | microRNA 153-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406946 | NR_029704,rna-MIF | **MIR154** | microRNA 154 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406947 | NR_030784,rna-MIF | **MIR155** | microRNA 155 | miRNA | 0 | 0 | 1 | 1 | 1.004 |
| 406948 | NR_029485,rna-MIF | **MIR15A** | microRNA 15a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406949 | NR_029663,rna-MIF | **MIR15B** | microRNA 15b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406950 | NR_029486,rna-MIF | **MIR16-1** | microRNA 16-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406951 | NR_029525,rna-MIF | **MIR16-2** | microRNA 16-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406952 | NR_029487,rna-MIF | **MIR17** | microRNA 17 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406953 | NR_029488,rna-MIF | **MIR18A** | microRNA 18a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406954 | NR_029611,rna-MIF | **MIR181A2** | microRNA 181a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406955 | NR_029612,rna-MIF | **MIR181B1** | microRNA 181b-1 | miRNA | 1 | 0 | 2 | 1 | 0.558 |
| 406956 | NR_029782,rna-MIF | **MIR181B2** | microRNA 181b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406957 | NR_029613,rna-MIF | **MIR181C** | microRNA 181c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406958 | NR_029614,rna-MIF | **MIR182** | microRNA 182 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406959 | NR_029615,rna-MIF | **MIR183** | microRNA 183 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406960 | NR_029705,rna-MIF | **MIR184** | microRNA 184 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406961 | NR_029706,rna-MIF | **MIR185** | microRNA 185 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406962 | NR_029707,rna-MIF | **MIR186** | microRNA 186 | miRNA | 4 | 4 | 5 | 5 | 1.009 |
| 406963 | NR_029616,rna-MIF | **MIR187** | microRNA 187 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406964 | NR_029708,rna-MIF | **MIR188** | microRNA 188 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406965 | NR_029709,rna-MIF | **MIR190A** | microRNA 190a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406966 | NR_029690,rna-MIF | **MIR191** | microRNA 191 | miRNA | 0 | 0 | 1 | 1 | 0.951 |
| 406967 | NR_029578,rna-MIF | **MIR192** | microRNA 192 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406968 | NR_029710,rna-MIF | **MIR193A** | microRNA 193a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406969 | NR_029711,rna-MIF | **MIR194-1** | microRNA 194-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406970 | NR_029829,rna-MIF | **MIR194-2** | microRNA 194-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406971 | NR_029712,rna-MIF | **MIR195** | microRNA 195 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406972 | NR_029582,rna-MIF | **MIR196A1** | microRNA 196a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406973 | NR_029617,rna-MIF | **MIR196A2** | microRNA 196a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406974 | NR_029583,rna-MIF | **MIR197** | microRNA 197 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406975 | NR_029584,rna-MIF | **MIR198** | microRNA 198 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406976 | NR_029586,rna-MIF | **MIR199A1** | microRNA 199a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406977 | NR_029618,rna-MIF | **MIR199A2** | microRNA 199a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406978 | NR_029619,rna-MIF | **MIR199B** | microRNA 199b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406979 | NR_029489,rna-MIF | **MIR19A** | microRNA 19a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406980 | NR_029490,rna-MIF | **MIR19B1** | microRNA 19b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406981 | NR_029491,rna-MIF | **MIR19B2** | microRNA 19b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406982 | NR_029492,rna-MIF | **MIR20A** | microRNA 20a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406983 | NR_029834,rna-MIF | **MIR200A** | microRNA 200a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406984 | NR_029639,rna-MIF | **MIR200B** | microRNA 200b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406985 | NR_029779,rna-MIF | **MIR200C** | microRNA 200c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406986 | NR_029620,rna-MIF | **MIR203A** | microRNA 203a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406987 | NR_029621,rna-MIF | **MIR204** | microRNA 204 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406988 | NR_029622,rna-MIF | **MIR205** | microRNA 205 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406989 | NR_029713,rna-MIF | **MIR206** | microRNA 206 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406990 | NR_029595,rna-MIF | **MIR208A** | microRNA 208a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406991 | NR_029493,rna-MIF | **MIR21** | microRNA 21 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406992 | NR_029623,rna-MIF | **MIR210** | microRNA 210 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406993 | NR_029624,rna-MIF | **MIR211** | microRNA 211 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406994 | NR_029625,rna-MIF | **MIR212** | microRNA 212 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406995 | NR_029626,rna-MIF | **MIR181A1** | microRNA 181a-1 | miRNA | 0 | 0 | 1 | 1 | 1.036 |
| 406996 | NR_029627,rna-MIF | **MIR214** | microRNA 214 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406997 | NR_029628,rna-MIF | **MIR215** | microRNA 215 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406998 | NR_029629,rna-MIF | **MIR216A** | microRNA 216a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 406999 | NR_029630,rna-MIF | **MIR217** | microRNA 217 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407000 | NR_029631,rna-MIF | **MIR218-1** | microRNA 218-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407001 | NR_029632,rna-MIF | **MIR218-2** | microRNA 218-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407002 | NR_029633,rna-MIF | **MIR219A1** | microRNA 219a-1 | miRNA | 0 | 0 | 1 | 1 | 0.939 |
| 407003 | NR_029837,rna-MIF | **MIR219A2** | microRNA 219a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407004 | NR_029494,rna-MIF | **MIR22** | microRNA 22 | miRNA | 0 | 0 | 1 | 1 | 0.759 |
| 407006 | NR_029635,rna-MIF | **MIR221** | microRNA 221 | miRNA | 1 | 1 | 2 | 2 | 1.117 |
| 407007 | NR_029636,rna-MIF | **MIR222** | microRNA 222 | miRNA | 0 | 0 | 1 | 1 | 1.261 |
| 407008 | NR_029637,rna-MIF | **MIR223** | microRNA 223 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407009 | NR_029638,rna-MIF | **MIR224** | microRNA 224 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407010 | NR_029495,rna-MIF | **MIR23A** | microRNA 23a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407011 | NR_029664,rna-MIF | **MIR23B** | microRNA 23b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407012 | NR_029496,rna-MIF | **MIR24-1** | microRNA 24-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407013 | NR_029497,rna-MIF | **MIR24-2** | microRNA 24-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 407014 | NR_029498,ma-MIF | **MIR25** | microRNA 25 | miRNA | 8 | 10 | 9 | 11 | 1.187 |
| 407015 | NR_029499,ma-MIF | **MIR26A1** | microRNA 26a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407016 | NR_029847,ma-MIF | **MIR26A2** | microRNA 26a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407017 | NR_029500,ma-MIF | **MIR26B** | microRNA 26b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407018 | NR_029501,ma-MIF | **MIR27A** | microRNA 27a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407019 | NR_029665,ma-MIF | **MIR27B** | microRNA 27b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407020 | NR_029502,ma-MIF | **MIR28** | microRNA 28 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407021 | NR_029503,ma-MIF | **MIR29A** | microRNA 29a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407022 | NR_029844,ma-MIF | **MIR296** | microRNA 296 | miRNA | 0 | 0 | 1 | 1 | 1.223 |
| 407023 | NR_029841,ma-MIF | **MIR299** | microRNA 299 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407024 | NR_029517,ma-MIF | **MIR29B1** | microRNA 29b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407025 | NR_029518,ma-MIF | **MIR29B2** | microRNA 29b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407026 | NR_029832,ma-MIF | **MIR29C** | microRNA 29c | miRNA | 0 | 0 | 1 | 1 | 1.041 |
| 407027 | NR_029842,ma-MIF | **MIR301A** | microRNA 301a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407028 | NR_029835,ma-MIF | **MIR302A** | microRNA 302a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407029 | NR_029504,ma-MIF | **MIR30A** | microRNA 30a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407030 | NR_029666,ma-MIF | **MIR30B** | microRNA 30b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407031 | NR_029833,ma-MIF | **MIR30C1** | microRNA 30c-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407032 | NR_029598,ma-MIF | **MIR30C2** | microRNA 30c-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407033 | NR_029599,ma-MIF | **MIR30D** | microRNA 30d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407034 | NR_029846,ma-MIF | **MIR30E** | microRNA 30e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407035 | NR_029505,ma-MIF | **MIR31** | microRNA 31 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407036 | NR_029506,ma-MIF | **MIR32** | microRNA 32 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407037 | NR_029714,ma-MIF | **MIR320A** | microRNA 320a | miRNA | 1 | 1 | 2 | 2 | 1.529 |
| 407039 | NR_029507,ma-MIF | **MIR33A** | microRNA 33a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407040 | NR_029610,ma-MIF | **MIR34A** | microRNA 34a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407041 | NR_029839,ma-MIF | **MIR34B** | microRNA 34b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407042 | NR_029840,ma-MIF | **MIR34C** | microRNA 34c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407043 | NR_029605,ma-MIF | **MIR7-1** | microRNA 7-1 | miRNA | 1 | 3 | 2 | 4 | 2.014 |
| 407044 | NR_029606,ma-MIF | **MIR7-2** | microRNA 7-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407045 | NR_029607,ma-MIF | **MIR7-3** | microRNA 7-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407046 | NR_029691,ma-MIF | **MIR9-1** | microRNA 9-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407047 | NR_030741,ma-MIF | **MIR9-2** | microRNA 9-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407048 | NR_029508,ma-MIF | **MIR92A1** | microRNA 92a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407049 | NR_029509,ma-MIF | **MIR92A2** | microRNA 92a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407050 | NR_029510,ma-MIF | **MIR93** | microRNA 93 | miRNA | 1 | 0 | 2 | 1 | 0.856 |
| 407051 | NR_029692,ma-MIF | **MIR9-3** | microRNA 9-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407052 | NR_029511,ma-MIF | **MIR95** | microRNA 95 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407053 | NR_029512,ma-MIF | **MIR96** | microRNA 96 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407054 | NR_029513,ma-MIF | **MIR98** | microRNA 98 | miRNA | 0 | 0 | 1 | 1 | 1.108 |
| 407055 | NR_029514,ma-MIF | **MIR99A** | microRNA 99a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407056 | NR_029843,ma-MIF | **MIR99B** | microRNA 99b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 407738 | NM_001252216,NM | **TAFA1** | TAFA chemokine like fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 407835 | NR_002144 | **LOC407835** | mitogen-activated protein | transcribed_pseu | 0 | 0 | 1 | 1 | 0.851 |
| 407975 | NR_027349,NR_027 | **MIR17HG** | miR-17-92a-1 cluster hos | lncRNA | 13 | 11 | 14 | 12 | 0.881 |
| 407977 | NM_172089 | **TNFSF12-TNFSF13** | TNFSF12-TNFSF13 reac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 408029 | NR_161366 | **CDRT15P3** | CDRT15 pseudogene 3 | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 408050 | NM_001004067,XM | **NOMO3** | NODAL modulator 3 | protein_coding | 60 | 59 | 61 | 60 | 0.988 |
| 408186 | NR_153413 | **OVOS** | alpha-2-macroglobulin lil | transcribed_pseu | 0 | 0 | 1 | 1 | 0.962 |
| 408187 | NM_001001325,XM | **SPINK14** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 408263 | NM_001001343 | **FNDC9** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414059 | NM_001001417,XM | **TBC1D3B** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 414060 | NM_001001418,XM | **TBC1D3C** | TBC1 domain family mer | protein_coding | 1 | 0 | 2 | 1 | 0.954 |
| 414061 | NM_001001394 | **DNAJB3** | DnaJ heat shock protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414062 | NM_001001437 | **CCL3L3** | C-C motif chemokine lig | protein_coding | 459 | 483 | 460 | 484 | 1.051 |
| 414130 | gene-NANOGP7 | **NANOGP7** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414131 | gene-NANOGP2 | **NANOGP2** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414132 | gene-NANOGP4 | **NANOGP4** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414133 | gene-NANOGP5 | **NANOGP5** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414135 | gene-NANOGP11 | **NANOGP11** | Nanog homeobox pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414149 | NM_001039844 | **ACBD7** | acyl-CoA binding domair | protein_coding | 0 | 0 | 1 | 1 | 0.976 |
| 414152 | NM_001164375,NM | **C10orf105** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.148 |
| 414153 | gene-SNRPEP2 | **SNRPEP2** | SNRPE pseudogene 2 | pseudogene | 2 | 0 | 3 | 1 | 0.579 |
| 414157 | NM_001009997 | **C10orf62** | chromosome 10 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414169 | gene-BANF1P2 | **BANF1P2** | BANF1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414189 | NM_001077665,NM | **AGAP6** | ArfGAP with GTPase dor | protein_coding | 3 | 5 | 4 | 6 | 1.657 |
| 414194 | NR_103829 | **CCNYL2** | cyclin Y like 2 (pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 414196 | NR_126062 | **CELF2-AS1** | CELF2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414197 | NR_047557 | **ZNF32-AS1** | ZNF32 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414200 | gene-NHP2P1 | **NHP2P1** | NHP2 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414201 | NR_038867 | **ZNF32-AS3** | ZNF32 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414208 | NR_047558 | **ZNF32-AS2** | ZNF32 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 414212 | NR_111968 | **GLUD1P2** | glutamate dehydrogenas | transcribed_pseu | 7 | 7 | 8 | 8 | 0.959 |
| 414217 | gene-BMS1P3 | **BMS1P3** | BMS1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414224 | NR_029396 | **AGAP12P** | ArfGAP with GTPase dor | transcribed_pseu | 0 | 1 | 1 | 2 | 1.091 |
| 414230 | gene-RPS15AP5 | **RPS15AP5** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414235 | NM_001355388,NM | **PRR26** | proline rich 26 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414236 | NR_160937,NR_160 | **C10orf55** | chromosome 10 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.099 |
| 414241 | NR_027632 | **SHLD2P1** | shieldin complex subunit | transcribed_pseu | 2 | 2 | 3 | 3 | 0.948 |
| 414243 | NR_073447 | **LINC00595** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414245 | NR_038373,NR_134 | **DNAJC9-AS1** | DNAJC9 antisense RNA | lncRNA | 6 | 7 | 7 | 8 | 1.163 |
| 414254 | gene-RPSAP6 | **RPSAP6** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414260 | NR_033923 | **LINC00619** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414300 | NR_121211 | **LOC414300** | uncharacterized LOC414 | lncRNA | 0 | 0 | 1 | 1 | 1.004 |
| 414301 | NM_001001711 | **DDI1** | DNA damage inducible 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414316 | NR_138049 | **COL5A1-AS1** | COL5A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414318 | NR_149714 | **C9orf106** | chromosome 9 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414319 | NR_103830 | **LINC00587** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414325 | NM_001081551 | **DEFB103A** | defensin beta 103A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414328 | NM_001001551,NM | **IDNK** | IDNK gluconokinase | protein_coding | 3 | 3 | 4 | 4 | 0.877 |
| 414332 | NM_001001712,NM | **LCN10** | lipocalin 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414351 | NR_044991 | **LINC00229** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414355 | gene-VKORC1P1 | **VKORC1P1** | VKORC1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414357 | gene-VKORC1P2 | **VKORC1P2** | VKORC1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 414760 | NR_104117 | **HCG14** | HLA complex group 14 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414761 | NR_135289,NR_145 | **HCG15** | HLA complex group 15 | lncRNA | 0 | 0 | 1 | 1 | 1.112 |
| 414763 | NR_073459 | **BMS1P18** | BMS1 pseudogene 18 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 414764 | NR_044996 | **HCG23** | HLA complex group 23 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414765 | NR_044997 | **HCG25** | HLA complex group 25 | lncRNA | 1 | 1 | 2 | 2 | 0.897 |
| 414768 | NR_138084 | **HCG24** | HLA complex group 24 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 414777 | NR_024052,NR_024 | **HCG18** | HLA complex group 18 | lncRNA | 20 | 18 | 21 | 19 | 0.880 |
| 414778 | NR_052012 | **HCG17** | HLA complex group 17 | lncRNA | 1 | 0 | 2 | 1 | 0.611 |
| 414899 | NM_001001786 | **BLID** | BH3-like motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414918 | NM_001001794,XM | **DENND6B** | DENN domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 414919 | NM_001001795 | **C8orf82** | chromosome 8 open rea | protein_coding | 3 | 3 | 4 | 4 | 1.148 |
| 414926 | NR_026764 | **LINC00593** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.737 |
| 414927 | NR_073400 | **MGC34796** | sepiapterin reductase (7, | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 415056 | NR_024369 | **CNTFR-AS1** | CNTFR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 415116 | NM_001001852 | **PIM3** | Pim-3 proto-oncogene, s | protein_coding | 110 | 125 | 111 | 126 | 1.136 |
| 415117 | NM_001001850,XM | **STX19** | syntaxin 19 | protein_coding | 0 | 0 | 1 | 1 | 0.917 |
| 425054 | NM_001001888 | **VCX3B** | variable charge X-linked | protein_coding | 0 | 0 | 1 | 1 | 0.934 |
| 425057 | NR_002159 | **TTTY9B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 431704 | NM_001039152 | **RGS21** | regulator of G protein sig | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 431705 | NM_001002036,XM | **ASTL** | astacin like metalloendo | protein_coding | 0 | 0 | 1 | 1 | 0.956 |
| 431707 | NM_001001933,NM | **LHX8** | LIM homeobox 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 432355 | NM_001356372,NM | **SLURP2** | secreted LY6/PLAUR dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 432369 | gene-ATP5F1EP2 | **ATP5F1EP2** | ATP synthase F1 subuni | pseudogene | 0 | 1 | 1 | 2 | 1.268 |
| 439915 | NM_001001480 | **KRTAP5-5** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 439916 | NR_038868 | **LINC00615** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 439921 | NM_001008528,NM | **MXRA7** | matrix remodeling associ | protein_coding | 0 | 0 | 1 | 1 | 1.135 |
| 439927 | NR_027379 | **LINC01555** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.038 |
| 439931 | NR_027051,NR_027 | **THAP7-AS1** | THAP7 antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 0.993 |
| 439933 | NR_122079,NR_122 | **LOC439933** | uncharacterized LOC439 | lncRNA | 1 | 1 | 2 | 2 | 1.096 |
| 439934 | NR_024087,NR_024 | **LINC00575** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 439936 | NR_131245 | **C5orf17** | chromosome 5 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 439941 | NR_040044 | **FER1L6-AS1** | FER1L6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 439945 | gene-IL9RP2 | **IL9RP2** | interleukin 9 receptor ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 439949 | NR_036502,NR_03 | **PRKCQ-AS1** | PRKCQ antisense RNA 1 | lncRNA | 37 | 36 | 38 | 37 | 0.985 |
| 439950 | NR_046108 | **CELF2-AS2** | CELF2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 439953 | gene-PPIAP31 | **PPIAP31** | peptidylprolyl isomerase | pseudogene | 1 | 1 | 2 | 2 | 0.806 |
| 439954 | gene-RPL7P37 | **RPL7P37** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 439965 | NR_027634,NR_16 | **SHLD2P3** | shieldin complex subunit | transcribed_pseu | 3 | 2 | 4 | 3 | 0.863 |
| 439990 | NR_038464 | **LINC00857** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 439992 | gene-RPS3AP5 | **RPS3AP5** | RPS3A pseudogene 5 | pseudogene | 4 | 4 | 5 | 5 | 0.948 |
| 439994 | NR_029408,NR_13 | **LINC00863** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.010 |
| 439996 | NM_001010987 | **IFIT1B** | interferon induced protei | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 440013 | gene-DUX4L10 | **DUX4L10** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440014 | gene-DUX4L12 | **DUX4L12** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440017 | gene-DUX4L15 | **DUX4L15** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440021 | NM_001004325 | **KRTAP5-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440023 | NM_001012416 | **KRTAP5-6** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 0.854 |
| 440026 | NM_001165030,NM | **TMEM41B** | transmembrane protein 4 | protein_coding | 33 | 28 | 34 | 29 | 0.871 |
| 440027 | gene-RPL23AP65 | **RPL23AP65** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.314 |
| 440028 | NR_033972 | **LINC02709** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 440034 | NR_033971 | **PAX6-AS1** | PAX6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440040 | NR_027044 | **LOC440040** | glutamate metabotropic r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440041 | NR_038174 | **TRIM51HP** | tripartite motif-containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440043 | gene-PGAM1P8 | **PGAM1P8** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 440044 | NR_033396 | **SLC22A20P** | solute carrier family 22 m | transcribed_pseu | 4 | 4 | 5 | 5 | 1.094 |
| 440050 | NM_001012503 | **KRTAP5-7** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440051 | NM_001005405 | **KRTAP5-11** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440055 | gene-RPS12P22 | **RPS12P22** | ribosomal protein S12 ps | pseudogene | 2 | 5 | 3 | 6 | 1.796 |
| 440061 | gene-TRIM64EP | **TRIM64EP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440063 | gene-PPIAP43 | **PPIAP43** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 440067 | NR_131905 | **CASP1P2** | caspase 1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.079 |
| 440068 | NM_001007232,XM | **CARD17** | caspase recruitment dom | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 440072 | NR_024233 | **LINC00167** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.853 |
| 440073 | NM_001170738,NM | **IQSEC3** | IQ motif and Sec7 domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440077 | NM_001004328,XM | **ZNF705A** | zinc finger protein 705A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440078 | NR_026788 | **FAM66C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 440081 | NR_033399 | **DDX12P** | DEAD/H-box helicase 12 | transcribed_pseu | 8 | 9 | 9 | 10 | 1.074 |
| 440084 | NR_148969 | **LOC440084** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440086 | gene-RPS6P1 | **RPS6P1** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.122 |
| 440087 | NM_001013698,XM | **SMCO3** | single-pass membrane p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440093 | NM_001013699 | **H3-5** | H3.5 histone | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 440097 | NM_001004329 | **DBX2** | developing brain homeot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440101 | NR_026655 | **FLJ12825** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440104 | NR_036476,NR_03 | **TMEM198B** | transmembrane protein 1 | transcribed_pseu | 4 | 4 | 5 | 5 | 1.094 |
| 440107 | NM_001037671,NM | **PLEKHG7** | pleckstrin homology and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440117 | NR_033970 | **LINC02372** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440119 | NR_033834 | **FZD10-AS1** | FZD10 antisense diverge | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440125 | gene-HNRNPA1P30 | **HNRNPA1P30** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 440131 | NR_033889 | **LINC00544** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440132 | NR_103813 | **LINC00545** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.676 |
| 440138 | NM_001004127,NR | **ALG11** | ALG11 alpha-1,2-manno | protein_coding | 30 | 27 | 31 | 28 | 0.917 |
| 440142 | gene-TARDBPP2 | **TARDBPP2** | TAR DNA binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440145 | NM_001071775 | **MZT1** | mitotic spindle organizing | protein_coding | 105 | 91 | 106 | 92 | 0.871 |
| 440153 | NM_001013354 | **OR11H12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440159 | gene-OR11H13P | **OR11H13P** | olfactory receptor family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440163 | NM_001012264 | **RNASE13** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440173 | NR_027471 | **LOC440173** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440176 | gene-RPL12P6 | **RPL12P6** | ribosomal protein L12 ps | pseudogene | 1 | 3 | 2 | 4 | 1.573 |
| 440180 | gene-LOC440180 | **LOC440180** | zinc finger CCHC-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440181 | gene-LOC440181 | **LOC440181** | transmembrane protein 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440184 | NM_001351576,NR | **CCDC196** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 440193 | NM_001080414,XM | **CCDC88C** | coiled-coil domain contai | protein_coding | 37 | 40 | 38 | 41 | 1.087 |
| 440224 | NR_024076 | **CXADRP3** | CXADR pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440225 | NR_028506 | **NF1P2** | neurofibromin 1 pseudog | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440243 | XM_011543882 | **GOLGA6L22** | golgin A6 family like 22, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440248 | NR_036443 | **HERC2P9** | hect domain and RLD 2 p | transcribed_pseu | 8 | 7 | 9 | 8 | 0.915 |
| 440253 | NR_026589 | **WHAMMP2** | WAS protein homolog as | transcribed_pseu | 0 | 0 | 1 | 1 | 0.897 |
| 440270 | NM_001023567,NR | **GOLGA8B** | golgin A8 family member | protein_coding | 9 | 7 | 10 | 8 | 0.841 |
| 440275 | NM_001013703 | **EIF2AK4** | eukaryotic translation init | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440278 | NR_002318 | **CATSPER2P1** | cation channel sperm as | transcribed_pseu | 1 | 2 | 2 | 3 | 1.438 |
| 440279 | NM_001080534,NM | **UNC13C** | unc-13 homolog C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440288 | NR_038448,NR_03 | **UBL7-AS1** | UBL7 antisense RNA 1 (h | lncRNA | 12 | 12 | 13 | 13 | 0.960 |
| 440292 | NR_157580 | **COMMD4P1** | COMM domain containin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.032 |
| 440295 | NM_001291420,NM | **GOLGA6L9** | golgin A6 family like 9 | protein_coding | 7 | 6 | 8 | 7 | 0.827 |
| 440299 | NR_033787 | **DNM1P41** | dynamin 1 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440300 | NR_033738 | **LOC440300** | chondroitin sulfate prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.021 |
| 440307 | NR_104604 | **TTLL13P** | tubulin tyrosine ligase lik | transcribed_pseu | 1 | 1 | 2 | 2 | 0.811 |
| 440311 | NR_077061 | **LOC440311** | NOP53 ribosome biogen | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440313 | XR_001751715 | **LOC440313** | protein enabled homolog | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440335 | NM_001253790,NM | **SMIM22** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440345 | NM_001310148,XM | **NPIPB4** | nuclear pore complex int | protein_coding | 11 | 12 | 12 | 13 | 1.071 |
| 440346 | NR_148970 | **LOC440346** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440348 | NM_001306094,XM | **NPIPB15** | nuclear pore complex int | protein_coding | 0 | 1 | 1 | 2 | 1.164 |
| 440350 | gene-NPIPB7 | **NPIPB7** | nuclear pore complex int | pseudogene | 0 | 0 | 1 | 1 | 1.313 |
| 440352 | NR_002939 | **SNX29P2** | sorting nexin 29 pseudog | transcribed_pseu | 2 | 2 | 3 | 3 | 0.962 |
| 440353 | NM_001355401 | **NPIPB12** | nuclear pore complex int | protein_coding | 9 | 10 | 10 | 11 | 1.082 |
| 440354 | NR_135305,NR_13 | **SMG1P2** | SMG1 pseudogene 2 | transcribed_pseu | 28 | 26 | 29 | 27 | 0.949 |
| 440356 | NR_015396,NR_02 | **CDIPTOSP** | CDIP transferase opposit | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 440359 | NR_027011 | **YBX3P1** | Y-box binding protein 3 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440366 | gene-HERC2P8 | **HERC2P8** | hect domain and RLD 2 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440375 | gene-RAB43P1 | **RAB43P1** | RAB43 pseudogene 1 | pseudogene | 17 | 17 | 18 | 18 | 1.019 |
| 440387 | NM_001025200 | **CTRB2** | chymotrypsinogen B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440390 | NR_126008 | **LINC02181** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440396 | gene-HNRNPA1P16 | **HNRNPA1P16** | heterogeneous nuclear r | pseudogene | 2 | 1 | 3 | 2 | 0.828 |
| 440400 | NM_001004333,NR | **RNASEK** | ribonuclease K | protein_coding | 109 | 109 | 110 | 110 | 1.003 |
| 440406 | gene-UBE2SP2 | **UBE2SP2** | ubiquitin conjugating en | pseudogene | 3 | 4 | 4 | 5 | 1.177 |
| 440416 | NR_104185,NR_16 | **CCDC144NL-AS1** | CCDC144NL antisense R | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440419 | NR_033892 | **TBC1D3P5** | TBC1 domain family mer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440423 | NR_024187,NR_14 | **SUZ12P1** | SUZ12 pseudogene 1 | transcribed_pseu | 15 | 11 | 16 | 12 | 0.777 |
| 440434 | NR_036750 | **NPEPPSP1** | NPEPPS pseudogene 1 | transcribed_pseu | 12 | 12 | 13 | 13 | 0.984 |
| 440435 | NM_001004334 | **GPR179** | G protein-coupled recep | protein_coding | 0 | 0 | 1 | 1 | 0.975 |
| 440446 | NR_122104 | **LINC02072** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440447 | gene-RPS2P27 | **RPS2P27** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.950 |
| 440452 | NR_027486 | **TBC1D3P2** | TBC1 domain family mer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440456 | NR_024386 | **PLEKHM1P1** | pleckstrin homology and | transcribed_pseu | 5 | 4 | 6 | 5 | 0.885 |
| 440459 | gene-SLC16A6P1 | **SLC16A6P1** | SLC16A6 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.090 |
| 440461 | NR_027283 | **ARHGAP27P2** | Rho GTPase activating p | transcribed_pseu | 1 | 1 | 2 | 2 | 1.188 |
| 440465 | NR_026857 | **BAIAP2-DT** | BAIAP2 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440482 | NR_040113 | **ANKRD20A5P** | ankyrin repeat domain 20 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440487 | gene-RPL21P128 | **RPL21P128** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.892 |
| 440489 | gene-LOC440489 | **LOC440489** | ubiquitin recognition fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440498 | NM_001136180 | **HSBP1L1** | heat shock factor binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440503 | NM_001013706 | **PLIN5** | perilipin 5 | protein_coding | 0 | 0 | 1 | 1 | 1.109 |
| 440508 | NR_002931 | **CLEC4GP1** | C-type lectin domain fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440514 | gene-CSP3 | **CSP3** | CS pseudogene 3 | pseudogene | 2 | 2 | 3 | 3 | 0.797 |
| 440515 | NM_001099269,NM | **ZNF506** | zinc finger protein 506 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440518 | NR_033899 | **GOLGA2P9** | GOLGA2 pseudogene 9 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440519 | NM_001355404,NM | **ZNF724** | zinc finger protein 724 | protein_coding | 1 | 1 | 2 | 2 | 0.884 |
| 440525 | gene-PRR13P5 | **PRR13P5** | proline rich 13 pseudoge | pseudogene | 12 | 12 | 13 | 13 | 1.067 |
| 440533 | NM_001130167,NM | **PSG8** | pregnancy specific beta- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440556 | NR_015440,NR_02 | **PRDM16-DT** | PRDM16 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440560 | NM_001146344,XM | **PRAMEF11** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440561 | NM_001010889 | **PRAMEF6** | PRAME family member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440563 | NM_001136561 | **HNRNPCL2** | heterogeneous nuclear r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440567 | NM_001089591 | **UQCRHL** | ubiquinol-cytochrome c r | protein_coding | 3 | 2 | 4 | 3 | 0.880 |
| 440568 | gene-LOC440568 | **LOC440568** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440574 | NM_001032363,NM | **MICOS10** | mitochondrial contact site | protein_coding | 37 | 40 | 38 | 41 | 1.081 |
| 440575 | gene-RPL21P29 | **RPL21P29** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 440584 | NR_033967 | **SLC2A1-AS1** | SLC2A1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.745 |
| 440585 | NM_001101376,XM | **FAM183A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440587 | gene-RPL6P1 | **RPL6P1** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440589 | gene-RPS2P8 | **RPS2P8** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.879 |
| 440590 | NM_001004339,NM | **ZYG11A** | zyg-11 family member A, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440594 | NR_033966 | **LINC01761** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440595 | gene-EEF1A1P11 | **EEF1A1P11** | eukaryotic translation elc | pseudogene | 20 | 23 | 21 | 24 | 1.184 |
| 440600 | NR_036595 | **RBM15-AS1** | RBM15 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.886 |
| 440602 | NR_108042 | **CYMP-AS1** | CYMP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440603 | NM_001010922 | **BCL2L15** | BCL2 like 15 | protein_coding | 1 | 1 | 2 | 2 | 0.959 |
| 440606 | gene-HSD3BP2 | **HSD3BP2** | hydroxy-delta-5-steroid d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440672 | NM_001355407 | **NUDT4B** | nudix hydrolase 4B | protein_coding | 10 | 9 | 11 | 10 | 0.914 |
| 440686 | NM_001355409,NM | **H3-2** | H3.2 histone (putative) | protein_coding | 0 | 0 | 1 | 1 | 0.984 |
| 440689 | NM_001024599,NM | **H2BC18** | H2B clustered histone 1 | protein_coding | 2 | 2 | 3 | 3 | 0.958 |
| 440695 | NM_001004341,XM | **ETV3L** | ETS variant transcription | protein_coding | 0 | 0 | 1 | 1 | 1.446 |
| 440699 | NM_001005214 | **LRRC52** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440700 | NR_036683 | **LOC440700** | carbonic anhydrase 14 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.191 |
| 440704 | NR_033922 | **LINC01720** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440712 | NM_001007544,NM | **RHEX** | regulator of hemoglobini | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440714 | NR_146760 | **LINC02869** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440730 | NM_001004342,NM | **TRIM67** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 440732 | gene-RPS7P3 | **RPS7P3** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.101 |
| 440737 | gene-RPL35P1 | **RPL35P1** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 0.925 |
| 440738 | NM_001004343,XM | **MAP1LC3C** | microtubule associated p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440742 | XR_001737834 | **LOC440742** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440757 | NR_034167 | **LINC00851** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440792 | gene-LOC440792 | **LOC440792** | proline dehydrogenase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440799 | NR_002829 | **P2RX6P** | purinergic receptor P2X | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440804 | NM_001128635 | **RIMBP3B** | RIMS binding protein 3B | protein_coding | 0 | 0 | 1 | 1 | 1.084 |
| 440822 | NM_001008496,NM | **PIWIL3** | piwi like RNA-mediated g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440823 | NR_003491,NR_03 | **MIAT** | myocardial infarction ass | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 440829 | NM_001207020,NM | **SHISA8** | shisa family member 8 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 440836 | NM_001014440,NM | **ODF3B** | outer dense fiber of sper | protein_coding | 3 | 3 | 4 | 4 | 0.969 |
| 440854 | NM_001145122,NM | **CAPN14** | calpain 14 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440864 | XR_002959383,XR_ | **LOC440864** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440888 | NR_027714 | **ACTR3BP2** | ACTR3B pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440894 | NR_046110,NR_04 | **LINC01123** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440895 | NR_027142,NR_02 | **LOC440895** | two pore channel 3 pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440896 | NR_015361,NR_14 | **LOC440896** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 440900 | NR_034128,NR_14 | **LINC01191** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440905 | NR_026758 | **FAR2P1** | fatty acyl-CoA reductase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440910 | NR_030728 | **LOC440910** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440915 | NR_033885 | **POTEKP** | POTE ankyrin domain fa | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 440917 | gene-YWHAEP5 | **YWHAEP5** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 0.922 |
| 440918 | NR_147695 | **FLJ46875** | uncharacterized LOC440 | lncRNA | 1 | 1 | 2 | 2 | 1.035 |
| 440925 | NR_027433 | **LINC01124** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440926 | NR_002315 | **H3P6** | H3 histone pseudogene | transcribed_pseu | 126 | 120 | 127 | 121 | 0.953 |
| 440934 | NR_136638,NR_13 | **CT75** | cancer/testis associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440944 | NR_027007,NR_13 | **THUMPD3-AS1** | THUMPD3 antisense RN | lncRNA | 19 | 18 | 20 | 19 | 0.953 |
| 440952 | NR_033965 | **EIF1B-AS1** | EIF1B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.861 |
| 440955 | NM_001008269 | **TMEM89** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440956 | NM_001143833,NM | **IQCF6** | IQ motif containing F6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 440957 | NM_001124767,XM | **SMIM4** | small integral membrane | protein_coding | 13 | 14 | 14 | 15 | 1.090 |
| 440970 | NR_033860 | **LINC00971** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440973 | gene-NFYBP1 | **NFYBP1** | NFYB pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 440982 | NR_121655 | **LOC440982** | uncharacterized LOC440 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 440991 | gene-RPS3P3 | **RPS3P3** | ribosomal protein S3 pse | pseudogene | 0 | 0 | 1 | 1 | 0.959 |
| 440992 | gene-RPS20P14 | **RPS20P14** | ribosomal protein S20 ps | pseudogene | 1 | 0 | 2 | 1 | 0.771 |
| 440993 | NR_122105 | **MIR570HG** | MIR570 host gene | lncRNA | 2 | 1 | 3 | 2 | 0.756 |
| 441009 | NR_038857 | **CPEB2-DT** | CPEB2 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441013 | gene-RPS2P21 | **RPS2P21** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441024 | NM_001004346,NM | **MTHFD2L** | methylenetetrahydrofola | protein_coding | 27 | 24 | 28 | 25 | 0.888 |
| 441025 | NR_033964 | **LINC02483** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441026 | gene-HNRNPA3P13 | **HNRNPA3P13** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 441027 | NM_001080506,NM | **TMEM150C** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441032 | gene-EEF1A1P9 | **EEF1A1P9** | eukaryotic translation elc | pseudogene | 1 | 1 | 2 | 2 | 1.098 |
| 441034 | gene-RPL7AP30 | **RPL7AP30** | ribosomal protein L7a ps | pseudogene | 1 | 0 | 2 | 1 | 0.683 |
| 441046 | NR_003675 | **GUSBP5** | GUSB pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441050 | gene-PTGES3P3 | **PTGES3P3** | prostaglandin E synthas | pseudogene | 0 | 0 | 1 | 1 | 1.107 |
| 441051 | gene-HSP90AA6P | **HSP90AA6P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 441052 | NR_134656 | **LOC441052** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441054 | NM_001114357,NM | **C4orf47** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.821 |
| 441056 | gene-DUX4L4 | **DUX4L4** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441058 | NR_038377 | **LINC01667** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441061 | NM_001102562 | **MARCHF11** | membrane associated rir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441066 | gene-GUSBP8 | **GUSBP8** | GUSB pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441072 | NR_102755 | **FLJ31104** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441073 | gene-RPL26P19 | **RPL26P19** | ribosomal protein L26 ps | pseudogene | 4 | 3 | 5 | 4 | 0.934 |
| 441081 | NR_073404 | **LOC441081** | POM121 membrane glyc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.001 |
| 441086 | NR_134288 | **LOC441086** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441087 | NR_149046 | **LOC441087** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.058 |
| 441089 | NR_003665 | **CRSP8P** | mediator complex subun | transcribed_pseu | 0 | 0 | 1 | 1 | 1.008 |
| 441094 | NR_021490,NR_02 | **NR2F1-AS1** | NR2F1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441098 | gene-LOC441098 | **LOC441098** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441108 | NR_161242 | **IRF1-AS1** | IRF1 antisense RNA 1 | lncRNA | 18 | 13 | 19 | 14 | 0.750 |
| 441114 | gene-RPLP0P9 | **RPLP0P9** | ribosomal protein lateral | pseudogene | 85 | 102 | 86 | 103 | 1.189 |
| 441116 | NR_046113 | **LINC01951** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441123 | NR_109817 | **LINC00266-3** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441124 | NR_132119 | **GTF2IP20** | general transcription fact | transcribed_pseu | 3 | 3 | 4 | 4 | 1.080 |
| 441131 | gene-ARPC3P5 | **ARPC3P5** | actin related protein 2/3 ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441132 | gene-IMPDH1P9 | **IMPDH1P9** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441133 | gene-KRT18P38 | **KRT18P38** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441150 | NM_001008739 | **C6orf226** | chromosome 6 open rea | protein_coding | 5 | 7 | 6 | 8 | 1.280 |
| 441151 | NM_001137560 | **TMEM151B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441154 | gene-RPL7AP34 | **RPL7AP34** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441155 | NM_001271675,XM | **LOC441155** | zinc finger CCCH-type d | protein_coding | 2 | 2 | 3 | 3 | 1.030 |
| 441160 | gene-KRT19P1 | **KRT19P1** | keratin 19 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441161 | NM_001080507 | **OOEP** | oocyte expressed protein | protein_coding | 0 | 0 | 1 | 1 | 0.812 |
| 441166 | gene-CNN2P9 | **CNN2P9** | calponin 2 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.183 |
| 441168 | NM_001010919,NM | **CALHM6** | calcium homeostasis mo | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441172 | NR_033896 | **FLJ46906** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441177 | NR_027284 | **LINC00602** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441178 | NR_117092 | **LINC02487** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441179 | NR_149041 | **LOC441179** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441191 | NR_015449,NR_02 | **RNF216P1** | ring finger protein 216 ps | transcribed_pseu | 24 | 23 | 25 | 24 | 0.961 |
| 441194 | NR_002217 | **PMS2CL** | PMS2 C-terminal like pse | transcribed_pseu | 11 | 11 | 12 | 12 | 0.982 |
| 441204 | NR_148499,NR_14 | **LOC441204** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441208 | NR_003502 | **ZNRF2P1** | zinc and ring finger 2 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441212 | NR_003500 | **RP9P** | RP9 pseudogene | transcribed_pseu | 1 | 1 | 2 | 2 | 1.309 |
| 441218 | gene-KRT8P20 | **KRT8P20** | keratin 8 pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441228 | gene-LOC441228 | **LOC441228** | exportin for tRNA pseudo | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 441234 | NM_001159279 | **ZNF716** | zinc finger protein 716 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441238 | gene-NMD3P1 | **NMD3P1** | NMD3 ribosome export a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441239 | XM_011516745 | **LOC441239** | uncharacterized LOC441 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441241 | gene-LOC441241 | **LOC441241** | vitamin K epoxide reduct | pseudogene | 0 | 0 | 1 | 1 | 0.955 |
| 441242 | NR_038378,NR_10 | **LOC441242** | uncharacterized LOC441 | lncRNA | 2 | 3 | 3 | 4 | 1.249 |
| 441246 | gene-RPL35P5 | **RPL35P5** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 441250 | NM_001145440 | **TYW1B** | tRNA-yW synthesizing pr | protein_coding | 10 | 10 | 11 | 11 | 0.985 |
| 441251 | NM_001382704 | **SPDYE7P** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441259 | gene-LOC441259 | **LOC441259** | PMS1 homolog 2, misma | pseudogene | 1 | 1 | 2 | 2 | 0.865 |
| 441261 | gene-FDPSP7 | **FDPSP7** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441263 | NR_023383 | **DTX2P1-UPK3BP1-PM** | DTX2P1-UPK3BP1-PMS | transcribed_pseu | 4 | 4 | 5 | 5 | 1.009 |
| 441272 | NM_001004351,XM | **SPDYE3** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441273 | NM_001031618,XM | **SPDYE2** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441282 | NM_001080538,NM | **AKR1B15** | aldo-keto reductase fami | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441294 | NM_001008747 | **CTAGE15** | CTAGE family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 441295 | NR_002157 | **OR2A9P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441307 | NR_033963 | **HRAT92** | heart tissue-associated tı | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441308 | NM_001005504 | **OR4F21** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441313 | gene-FAM90A4P | **FAM90A4P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441314 | gene-FAM90A13P | **FAM90A13P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441315 | gene-FAM90A5P | **FAM90A5P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441317 | NR_046343 | **FAM90A7P** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441323 | gene-FAM90A16P | **FAM90A16P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441324 | gene-FAM90A8P | **FAM90A8P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441326 | gene-FAM90A18P | **FAM90A18P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441327 | gene-FAM90A9P | **FAM90A9P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441328 | NR_046351 | **FAM90A10P** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441331 | gene-FAM90A11P | **FAM90A11P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441332 | gene-FAM90A24P | **FAM90A24P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441355 | NR_033830 | **MIR2052HG** | MIR2052 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.889 |
| 441359 | gene-REXO1L3P | **REXO1L3P** | REXO1 like 3, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441362 | gene-REXO1L6P | **REXO1L6P** | REXO1 like 6, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441369 | NR_046114 | **FLJ46284** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441374 | NR_033962 | **FLJ42969** | uncharacterized LOC441 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441376 | NM_001025357 | **AARD** | alanine and arginine rich | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 441377 | gene-RPS26P35 | **RPS26P35** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441381 | NM_001024678 | **LRRC24** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 441386 | gene-RPS26P3 | **RPS26P3** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.147 |
| 441389 | NR_038977 | **LINC01239** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 441391 | gene-RBMXP2 | **RBMXP2** | RBMX pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 441394 | NR_003667 | **SUGT1P1** | SUGT1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441400 | gene-RAB1C | **RAB1C** | RAB1C, member RAS or | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441410 | gene-FKBP4P7 | **FKBP4P7** | FKBP prolyl isomerase 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441416 | gene-ADGRF5P2 | **ADGRF5P2** | adhesion G protein-coup | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441420 | gene-MYO5BP1 | **MYO5BP1** | myosin VB pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441425 | XR_001746295,XR_ | **ANKRD20A3P** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.004 |
| 441432 | NR_026558 | **AQP7P3** | aquaporin 7 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441440 | gene-RPL7AP46 | **RPL7AP46** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441442 | gene-MYO5BP3 | **MYO5BP3** | myosin VB pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441452 | NM_001145124,XM_ | **SPATA31C1** | SPATA31 subfamily C m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441454 | NR_028350 | **PTMAP11** | prothymosin alpha pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.042 |
| 441455 | NR_026792 | **LOC441455** | makorin ring finger prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441457 | NM_001045477,NM | **NUTM2G** | NUT family member 2G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441459 | NM_001353432 | **ANKRD18B** | ankyrin repeat domain 1( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441461 | NR_038853 | **STX17-AS1** | STX17 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.853 |
| 441476 | NM_001004353,NM | **STPG3** | sperm-tail PG-rich repea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441478 | NM_001004354 | **NRARP** | NOTCH regulated ankyri | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441481 | gene-GPX1P1 | **GPX1P1** | glutathione peroxidase p | pseudogene | 0 | 0 | 1 | 1 | 1.067 |
| 441484 | gene-HAUS1P2 | **HAUS1P2** | HAUS augmin like compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441490 | NM_001271682 | **FTHL18** | ferritin heavy chain like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441495 | NM_001355278 | **CENPVL2** | centromere protein V like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441501 | NR_034005 | **LINC00891** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441502 | NR_002309 | **RPS26P11** | ribosomal protein S26 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.015 |
| 441505 | gene-STIP1P3 | **STIP1P3** | stress induced phospho | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 441509 | NR_164162 | **GLRA4** | glycine receptor alpha 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441511 | gene-LOC441511 | **LOC441511** | mitofusin-1-like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441518 | NM_001078173 | **RTL8B** | retrotransposon Gag like | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 441519 | NM_001017435,NM | **CT45A3** | cancer/testis antigen fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441521 | NM_001007551,NM | **CT45A5** | cancer/testis antigen fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441525 | NM_001009613,XM | **SPANXN4** | SPANX family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441531 | NM_001029891 | **PGAM4** | phosphoglycerate mutas | protein_coding | 4 | 4 | 5 | 5 | 1.133 |
| 441533 | gene-RPL26P37 | **RPL26P37** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441543 | NR_002175 | **TTTY6B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 441548 | gene-BTBD7P1 | **BTBD7P1** | BTB domain containing 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441549 | NM_001029954,XM_ | **CDNF** | cerebral dopamine neurc | protein_coding | 1 | 0 | 2 | 1 | 0.730 |
| 441550 | gene-RPS4XP11 | **RPS4XP11** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441554 | gene-DUSP8P1 | **DUSP8P1** | dual specificity phosphat | pseudogene | 1 | 1 | 2 | 2 | 1.103 |
| 441572 | gene-GAPDHP28 | **GAPDHP28** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441581 | NM_001080998 | **FRG2B** | FSHD region gene 2 fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441592 | gene-MRGPRX7P | **MRGPRX7P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441601 | NR_003034 | **LOC441601** | septin 7 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441608 | NM_001005469 | **OR5B3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441609 | gene-YWHAZP9 | **YWHAZP9** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441623 | gene-FTLP7 | **FTLP7** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441631 | NM_001080509,NM | **TSPAN11** | tetraspanin 11 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441632 | gene-RPL13AP22 | **RPL13AP22** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.412 |
| 441639 | NM_001005243 | **OR9K2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441641 | gene-RPL13AP23 | **RPL13AP23** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441642 | gene-RPL7AP9 | **RPL7AP9** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441644 | gene-LOC441644 | **LOC441644** | REST corepressor 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441654 | gene-SMPD4P2 | **SMPD4P2** | sphingomyelin phosphoc | pseudogene | 0 | 0 | 1 | 1 | 0.955 |
| 441662 | gene-TET1P1 | **TET1P1** | tet methylcytosine dioxyg | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441666 | NR_024380 | **LOC441666** | zinc finger protein 91 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441669 | NM_172194,XM_02 | **OR4Q3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441670 | NM_001005500,XM | **OR4M1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441687 | NR_033777 | **TEX21P** | testis expressed 21, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 0.880 |
| 441711 | gene-LOC441711 | **LOC441711** | RING finger protein 145- | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 441722 | gene-LOC441722 | **LOC441722** | U2 small nuclear RNA au | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 441726 | gene-RPL28P4 | **RPL28P4** | ribosomal protein L28 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441727 | gene-RPL36AP45 | **RPL36AP45** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 0.928 |
| 441728 | XR_932489 | **LOC441728** | golgin-like pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441733 | NR_073405 | **PRKXP1** | PRKX pseudogene 1 | transcribed_pseu | 5 | 5 | 6 | 6 | 0.962 |
| 441744 | gene-RPS16P7 | **RPS16P7** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441768 | gene-LOC441768 | **LOC441768** | RAB31, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441774 | gene-RPS4Y1P1 | **RPS4Y1P1** | RPS4Y1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441775 | gene-RPL18P13 | **RPL18P13** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441783 | gene-ACTG1P24 | **ACTG1P24** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 441784 | gene-LOC441784 | **LOC441784** | TBC1 domain family mer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441795 | gene-HMGB3P27 | **HMGB3P27** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441806 | gene-LOC441806 | **LOC441806** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441818 | NR_003558 | **WBP11P1** | WBP11 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441843 | gene-ZNF209P | **ZNF209P** | zinc finger protein 209, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441862 | gene-LOC441862 | **LOC441862** | DUT pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.085 |
| 441864 | NM_001135686,NM | **TARM1** | T cell-interacting, activati | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441869 | NM_001145210,NM | **ANKRD65** | ankyrin repeat domain 6! | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441870 | gene-PRAMEF30P | **PRAMEF30P** | PRAME family member 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441871 | NM_001012277 | **PRAMEF7** | PRAME family member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441873 | NM_001310134 | **PRAMEF25** | PRAME family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441876 | gene-RPS16P1 | **RPS16P1** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.071 |
| 441878 | gene-RPS4XP4 | **RPS4XP4** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441884 | NR_161259 | **CALR4P** | calreticulin 4, pseudoger | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441887 | gene-LOC441887 | **LOC441887** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441891 | gene-WDR82P2 | **WDR82P2** | WD repeat domain 82 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441893 | gene-GAPDHP29 | **GAPDHP29** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441896 | gene-RPL7P8 | **RPL7P8** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441897 | NR_029429 | **PGBP** | pepsinogen B, pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441898 | gene-RPS15AP9 | **RPS15AP9** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441899 | gene-VPS25P1 | **VPS25P1** | VPS25 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 441900 | gene-HSD3BP3 | **HSD3BP3** | hydroxy-delta-5-steroid d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441907 | gene-LOC441907 | **LOC441907** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441908 | NR_103561 | **NBPF18P** | NBPF member 18, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 441911 | NM_001004467 | **OR10J3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441914 | gene-LOC441914 | **LOC441914** | dynactin subunit 5 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441915 | gene-SLC25A38P1 | **SLC25A38P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441925 | NM_001290693 | **BECN2** | beclin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441932 | NM_001004698 | **OR2W5** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441933 | NM_001005487 | **OR13G1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 441940 | gene-LIN28AP3 | **LIN28AP3** | LIN28A pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441951 | NR_003604,NR_00: | **ZFAS1** | ZNFX1 antisense RNA 1 | lncRNA | 258 | 255 | 259 | 256 | 0.990 |
| 441957 | gene-FEM1AP1 | **FEM1AP1** | fem-1 homolog A pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 441958 | gene-GXYLT1P2 | **GXYLT1P2** | GXYLT1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.981 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 441996 | gene-LOC441996 | **LOC441996** | aconitase 2, mitochondri | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442013 | gene-LDHAP3 | **LDHAP3** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 0.960 |
| 442017 | gene-IFITM3P9 | **IFITM3P9** | IFITM3 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442028 | NR_037597 | **LOC442028** | uncharacterized LOC442 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442038 | NM_001008743,NM | **SULT1C3** | sulfotransferase family 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442041 | gene-LOC442041 | **LOC442041** | zinc finger protein 532 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442042 | gene-POLR2DP1 | **POLR2DP1** | POLR2D pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442058 | gene-RPA3P1 | **RPA3P1** | RPA3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442060 | gene-SAP18P2 | **SAP18P2** | SAP18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442063 | gene-PIMREGP1 | **PIMREGP1** | PIMREG pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442075 | NR_103821 | **EMC3-AS1** | EMC3 antisense RNA 1 | lncRNA | 10 | 9 | 11 | 10 | 0.916 |
| 442078 | gene-KRT8P18 | **KRT8P18** | keratin 8 pseudogene 18 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442083 | gene-HSP90AB5P | **HSP90AB5P** | heat shock protein 90 al | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442086 | gene-RPL10P7 | **RPL10P7** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442087 | gene-LOC442087 | **LOC442087** | PTOV1, extended AT-ho | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442097 | gene-ACTG1P23 | **ACTG1P23** | actin gamma 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 442098 | gene-MTHFD2P7 | **MTHFD2P7** | methylenetetrahydrofola | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 442112 | gene-SERBP1P5 | **SERBP1P5** | SERPINE1 mRNA bindin | pseudogene | 6 | 6 | 7 | 7 | 1.043 |
| 442113 | gene-LOC442113 | **LOC442113** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 1.110 |
| 442114 | gene-KRT19P3 | **KRT19P3** | keratin 19 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442117 | NM_001034845,XM | **GALNTL6** | polypeptide N-acetylgala | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442131 | gene-ALG3P1 | **ALG3P1** | ALG3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.862 |
| 442132 | NR_033906 | **LOC442132** | golgin A6 family-like 1 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442142 | gene-SOX30P1 | **SOX30P1** | SOX30 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442153 | gene-PSMC1P11 | **PSMC1P11** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442155 | gene-LOC442155 | **LOC442155** | transcription factor B2, m | pseudogene | 1 | 1 | 2 | 2 | 0.926 |
| 442156 | gene-PKMP5 | **PKMP5** | pyruvate kinase M1/2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442157 | gene-HNRNPLP1 | **HNRNPLP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 442158 | gene-RPS26P29 | **RPS26P29** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442160 | gene-RPL21P62 | **RPL21P62** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442161 | gene-LOC442161 | **LOC442161** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442162 | gene-RPS4XP7 | **RPS4XP7** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 442164 | gene-DDX18P3 | **DDX18P3** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442167 | gene-ASS1P1 | **ASS1P1** | argininosuccinate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442171 | gene-RPL10P2 | **RPL10P2** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442172 | gene-LOC442172 | **LOC442172** | cell division cycle associ | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442175 | gene-RPLP2P1 | **RPLP2P1** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442179 | NM_001355425 | **OR1F12** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442181 | gene-RPSAP2 | **RPSAP2** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442184 | NM_001005226 | **OR2B3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442185 | NM_001348294 | **OR2J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442186 | NM_001005216 | **OR2J3** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442191 | NM_030946 | **OR14J1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442192 | gene-DDX6P1 | **DDX6P1** | DEAD-box helicase 6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442194 | NM_013941 | **OR10C1** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442195 | gene-RPS17P1 | **RPS17P1** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442204 | gene-MYL8P | **MYL8P** | myosin light chain 8, pse | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 442205 | gene-KRT18P9 | **KRT18P9** | keratin 18 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442210 | gene-TUBBP9 | **TUBBP9** | tubulin beta class I pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442211 | NR_037141 | **ATP6V0CP3** | ATPase H+ transporting | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442213 | NM_001013732,NM | **PTCHD4** | patched domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442216 | gene-RPS17P5 | **RPS17P5** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 442217 | gene-RPL31P28 | **RPL31P28** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442221 | gene-RCC2P7 | **RCC2P7** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442227 | gene-EEF1B2P5 | **EEF1B2P5** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442229 | NR_026540 | **SLC25A51P1** | SLC25A51 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 0.994 |
| 442231 | gene-GAPDHP63 | **GAPDHP63** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 442232 | gene-RPL17P25 | **RPL17P25** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 442233 | gene-SMARCE1P2 | **SMARCE1P2** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442234 | gene-RCN1P1 | **RCN1P1** | reticulocalbin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442236 | gene-KRT18P50 | **KRT18P50** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442237 | gene-RPS7P8 | **RPS7P8** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442239 | gene-PRDX2P4 | **PRDX2P4** | peroxiredoxin 2 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442240 | gene-ZNF259P1 | **ZNF259P1** | zinc finger protein 259 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442244 | gene-LOC442244 | **LOC442244** | PDGFA associated prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442245 | NR_002932 | **GSTM2P1** | glutathione S-transferas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442247 | NM_001013734 | **RFPL4B** | ret finger protein like 4B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442249 | gene-KRT18P65 | **KRT18P65** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442252 | gene-KRT18P22 | **KRT18P22** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442255 | gene-SLC25A5P7 | **SLC25A5P7** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442256 | gene-PPP1R14BP5 | **PPP1R14BP5** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442257 | gene-RPS4XP9 | **RPS4XP9** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442258 | gene-EEF1DP5 | **EEF1DP5** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442260 | gene-RPL23AP46 | **RPL23AP46** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442262 | gene-GAPDHP73 | **GAPDHP73** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442263 | gene-LOC442263 | **LOC442263** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 442266 | gene-YAP1P1 | **YAP1P1** | Yes associated protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.057 |
| 442267 | gene-CCT7P1 | **CCT7P1** | chaperonin containing TC | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442270 | gene-RPS12P11 | **RPS12P11** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442271 | gene-TUBB4BP7 | **TUBB4BP7** | tubulin beta 4B class IVb | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442272 | gene-LOC442272 | **LOC442272** | YKT6 v-SNARE homolog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442290 | gene-NHP2P2 | **NHP2P2** | NHP2 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442291 | gene-PSMC1P2 | **PSMC1P2** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442292 | gene-LOC442292 | **LOC442292** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442293 | gene-LOC442293 | **LOC442293** | glycine cleavage system | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442304 | gene-FTLP15 | **FTLP15** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442308 | gene-TUBBP6 | **TUBBP6** | tubulin beta class I pseu | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 442309 | gene-IFITM3P4 | **IFITM3P4** | IFITM3 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442317 | gene-SAPCD2P2 | **SAPCD2P2** | suppressor APC domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442318 | gene-SAPCD2P4 | **SAPCD2P4** | suppressor APC domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442319 | NM_001159522,XM | **ZNF727** | zinc finger protein 727 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442320 | gene-SAPCD2P1 | **SAPCD2P1** | suppressor APC domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442325 | gene-EEF1DP4 | **EEF1DP4** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442326 | gene-RPL31P38 | **RPL31P38** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442334 | gene-ARF1P1 | **ARF1P1** | ADP ribosylation factor 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442361 | NM_001005480 | **OR2A2** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442384 | gene-VENTXP5 | **VENTXP5** | VENT homeobox pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442388 | NR_103832 | **SDR16C6P** | short chain dehydrogena | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442396 | gene-ARF1P3 | **ARF1P3** | ADP ribosylation factor 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442405 | gene-KRT18P66 | **KRT18P66** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442406 | gene-KRT18P36 | **KRT18P36** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442415 | gene-ATP5F1AP7 | **ATP5F1AP7** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442416 | gene-ATP5F1AP1 | **ATP5F1AP1** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442421 | NR_024496,NR_13 | **PTGER4P2-CDK2AP2I** | PTGER4P2-CDK2AP2P2 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.971 |
| 442425 | NM_001013735 | **FOXB2** | forkhead box B2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442426 | gene-RPS2P34 | **RPS2P34** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 442427 | gene-LOC442427 | **LOC442427** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442429 | gene-EEF1DP2 | **EEF1DP2** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 442443 | gene-LOC442443 | **LOC442443** | chromodomain Y-like prc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442444 | NM_001013736 | **FAM47C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442446 | gene-UBTFL11 | **UBTFL11** | UBTF like 11 (pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442447 | gene-CLIC4P3 | **CLIC4P3** | chloride intracellular cha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442454 | NR_002308 | **UQCRBP1** | ubiquinol-cytochrome c r | transcribed_pseu | 1 | 0 | 2 | 1 | 0.941 |
| 442459 | gene-XRCC6P5 | **XRCC6P5** | X-ray repair cross compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442460 | gene-PPIAP89 | **PPIAP89** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442465 | gene-SAGE4P | **SAGE4P** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442479 | gene-HSFY3P | **HSFY3P** | heat shock transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442497 | NR_033960 | **LOC442497** | uncharacterized LOC442 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442517 | gene-LOC442517 | **LOC442517** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 442523 | NR_003551 | **DPY19L2P4** | DPY19L2 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442524 | NR_036482,NR_15 | **DPY19L2P3** | DPY19L2 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442525 | gene-SLC25A5P5 | **SLC25A5P5** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442572 | NM_001382715 | **SPDYE21** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 442578 | NR_040582 | **STAG3L3** | stromal antigen 3-like 3 ( | transcribed_pseu | 5 | 2 | 6 | 3 | 0.436 |
| 442582 | NR_040584 | **STAG3L2** | stromal antigen 3-like 2 ( | transcribed_pseu | 26 | 18 | 27 | 19 | 0.716 |
| 442590 | NM_001306141 | **SPDYE5** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 442603 | gene-LOC442603 | **LOC442603** | ADP ribosylation factor 6 | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 442659 | gene-RPL23P7 | **RPL23P7** | ribosomal protein L23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442660 | gene-RPL7AP38 | **RPL7AP38** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442661 | gene-HMGB3P20 | **HMGB3P20** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442673 | gene-TUBG1P | **TUBG1P** | tubulin gamma 1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442707 | gene-MTHFD2P5 | **MTHFD2P5** | methylenetetrahydrofola | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442709 | gene-EEF1A1P28 | **EEF1A1P28** | eukaryotic translation elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442712 | gene-RPL7AP40 | **RPL7AP40** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442713 | gene-PPIAP82 | **PPIAP82** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442720 | NR_003024 | **EIF3IP1** | eukaryotic translation init | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 442721 | NM_207163 | **LMOD2** | leiomodin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442723 | gene-RPL27P11 | **RPL27P11** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442730 | gene-ST13P17 | **ST13P17** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 442775 | gene-RAC1P2 | **RAC1P2** | Rac family small GTPase | pseudogene | 1 | 2 | 2 | 3 | 1.233 |
| 442777 | gene-TECRP1 | **TECRP1** | trans-2,3-enoyl-CoA redu | pseudogene | 3 | 1 | 4 | 2 | 0.639 |
| 442862 | NM_001002758 | **PRY2** | PTPN13 like Y-linked 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442867 | NM_001002760 | **BPY2B** | basic charge Y-linked 2E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442868 | NM_001002761 | **BPY2C** | basic charge Y-linked 2C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 442890 | NR_029903,rna-MIR | **MIR133B** | microRNA 133b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442891 | NR_029893,rna-MIR | **MIR135B** | microRNA 135b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442892 | NR_029894,rna-MIR | **MIR148B** | microRNA 148b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442893 | NR_029892,rna-MIR | **MIR151A** | microRNA 151a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442894 | NR_029857,rna-MIR | **MIR302B** | microRNA 302b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442895 | NR_029858,rna-MIR | **MIR302C** | microRNA 302c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442896 | NR_029859,rna-MIR | **MIR302D** | microRNA 302d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442897 | NR_029890,rna-MIR | **MIR323A** | microRNA 323a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442898 | NR_029896,rna-MIR | **MIR324** | microRNA 324 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442899 | NR_029905,rna-MIR | **MIR325** | microRNA 325 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442900 | NR_029891,rna-MIR | **MIR326** | microRNA 326 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442901 | NR_029887,rna-MIR | **MIR328** | microRNA 328 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442902 | NR_029886,rna-MIR | **MIR330** | microRNA 330 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442903 | NR_029895,rna-MIR | **MIR331** | microRNA 331 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442904 | NR_029899,rna-MIR | **MIR335** | microRNA 335 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442905 | NR_029889,rna-MIR | **MIR337** | microRNA 337 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442906 | NR_029897,rna-MIR | **MIR338** | microRNA 338 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442907 | NR_029898,rna-MIR | **MIR339** | microRNA 339 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442908 | NR_029885,rna-MIR | **MIR340** | microRNA 340 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442909 | NR_029888,rna-MIR | **MIR342** | microRNA 342 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442910 | NR_029906,rna-MIR | **MIR345** | microRNA 345 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442911 | NR_029907,rna-MIR | **MIR346** | microRNA 346 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442912 | NR_029860,rna-MIR | **MIR367** | microRNA 367 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442913 | NR_029861,rna-MIR | **MIR376C** | microRNA 376c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442914 | NR_029862,rna-MIR | **MIR369** | microRNA 369 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442915 | NR_029863,rna-MIR | **MIR370** | microRNA 370 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442916 | NR_029864,rna-MIR | **MIR371A** | microRNA 371a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442917 | NR_029865,rna-MIR | **MIR372** | microRNA 372 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442918 | NR_029866,rna-MIR | **MIR373** | microRNA 373 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442919 | NR_030785,rna-MIR | **MIR374A** | microRNA 374a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 442920 | NR_029911,rna-MIR | **MIR196B** | microRNA 196b | miRNA | 0 | 0 | 1 | 1 | 0.920 |
| 444882 | NM_001002923,NR_ | **IGFL4** | IGF like family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 445328 | NM_001003702,NM_ | **ARHGEF35** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 445329 | NM_001017390 | **SULT1A4** | sulfotransferase family 1 | protein_coding | 1 | 0 | 2 | 1 | 0.830 |
| 445347 | NM_001003799,NM_ | **TARP** | TCR gamma alternate re | protein_coding | 22 | 21 | 23 | 22 | 0.957 |
| 445372 | NM_001003819 | **TRIM6-TRIM34** | TRIM6-TRIM34 readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 445571 | NM_001291821,NM_ | **CBWD3** | COBW domain containin | protein_coding | 34 | 35 | 35 | 36 | 1.017 |
| 445573 | gene-ATP5MFP3 | **ATP5MFP3** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 445577 | NR_166069 | **C9orf129** | chromosome 9 open rea | transcribed_pseu | 1 | 1 | 2 | 2 | 1.044 |
| 445582 | NM_001083538,XM_ | **POTEE** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 445815 | NM_001004065,NM_ | **PALM2AKAP2** | PALM2 and AKAP2 fusio | protein_coding | 87 | 77 | 88 | 78 | 0.890 |
| 446207 | gene-ACTBP10 | **ACTBP10** | ACTB pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 448831 | NM_001005217,NM_ | **FRG2** | FSHD region gene 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 448834 | NM_001025231,XM_ | **KPRP** | keratinocyte proline rich | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 448835 | NM_001128600,XM_ | **LCE6A** | late cornified envelope 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 449491 | NR_073407 | **DEFA8P** | defensin alpha 8, pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 449492 | NR_073408 | **DEFA9P** | defensin alpha 9, pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 449493 | NR_029386 | **DEFA10P** | defensin alpha 10, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 449520 | NR_028361 | **GGNBP1** | gametogenetin binding p | transcribed_pseu | 1 | 0 | 2 | 1 | 0.665 |
| 449645 | gene-SF3A3P2 | **SF3A3P2** | splicing factor 3a, subun | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 450232 | gene-PHF5CP | **PHF5CP** | PHD finger protein 5C ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 450234 | gene-PHF5GP | **PHF5GP** | PHD finger protein 5G ps | pseudogene | 0 | 0 | 1 | 1 | 1.255 |
| 450238 | gene-PHF5DP | **PHF5DP** | PHD finger protein 5D ps | pseudogene | 1 | 1 | 2 | 2 | 1.115 |
| 450239 | gene-PHF5EP | **PHF5EP** | PHD finger protein 5E ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 450246 | gene-PHF5FP | **PHF5FP** | PHD finger protein 5F ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 450250 | gene-PHF5HP | **PHF5HP** | PHD finger protein 5H ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 474148 | NR_002176 | **TTTY3B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 474149 | NR_002178 | **TTTY4B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 474150 | NR_002177 | **TTTY4C** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 474151 | NR_002180 | **TTTY17B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 474152 | NR_002179 | **TTTY17C** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 474167 | gene-HDGFP1 | **HDGFP1** | heparin binding growth f | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 474170 | NM_001006607,XM_ | **LRRC37A2** | leucine rich repeat conta | protein_coding | 4 | 3 | 5 | 4 | 0.971 |
| 474174 | gene-SGCEP1 | **SGCEP1** | SGCE pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 474337 | gene-SUMO1P2 | **SUMO1P2** | SUMO1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 474338 | NR_002190 | **SUMO1P3** | SUMO1 pseudogene 3 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.012 |
| 474341 | gene-SUMO1P5 | **SUMO1P5** | SUMO1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 474343 | NM_001006681,NM_ | **SPIN2B** | spindlin family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 474344 | NM_001244071,NM_ | **GIMAP6** | GTPase, IMAP family me | protein_coding | 79 | 77 | 80 | 78 | 0.975 |
| 474354 | NM_001006939,NM_ | **LRRC18** | leucine rich repeat conta | protein_coding | 11 | 10 | 12 | 11 | 0.950 |
| 474381 | NM_001017991 | **H2AB2** | H2A.B variant histone 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 474382 | NM_001017990 | **H2AB1** | H2A.B variant histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 474383 | NM_001007523 | **F8A2** | coagulation factor VIII as | protein_coding | 5 | 7 | 6 | 8 | 1.322 |
| 474384 | NM_001007524 | **F8A3** | coagulation factor VIII as | protein_coding | 5 | 6 | 6 | 7 | 1.193 |
| 492295 | gene-RAC1P3 | **RAC1P3** | Rac family small GTPase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 492303 | NR_002830 | **GEMIN8P4** | gem nuclear organelle a | transcribed_pseu | 5 | 3 | 6 | 4 | 0.766 |
| 492307 | NM_001007176,NM_ | **PPDPFL** | pancreatic progenitor cel | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 492311 | NM_001007189 | **IGIP** | IgA inducing protein | protein_coding | 2 | 1 | 3 | 2 | 0.777 |
| 493753 | NM_001008215 | **COA5** | cytochrome c oxidase as | protein_coding | 26 | 28 | 27 | 29 | 1.080 |
| 493754 | NR_111972,NR_11 | **GS1-124K5.11** | RAB guanine nucleotide | transcribed_pseu | 19 | 14 | 20 | 15 | 0.729 |
| 493812 | NR_026790 | **HCG11** | HLA complex group 11 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 493829 | NM_001008274,XM_ | **TRIM72** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.033 |
| 493856 | NM_001008388 | **CISD2** | CDGSH iron sulfur doma | protein_coding | 20 | 19 | 21 | 20 | 0.948 |
| 493860 | NM_001008391 | **CCDC73** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 493861 | NM_001008394 | **EID3** | EP300 interacting inhibit | protein_coding | 15 | 14 | 16 | 15 | 0.906 |
| 493869 | NM_001008397,NM_ | **GPX8** | glutathione peroxidase 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 493900 | NR_073431 | **TMEM9B-AS1** | TMEM9B antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.104 |
| 493901 | NM_001024822 | **RNASE12** | ribonuclease A family me | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 493911 | NM_001008489,NM_ | **PHOSPHO2** | phosphatase, orphan 2 | protein_coding | 10 | 7 | 11 | 8 | 0.704 |
| 493913 | NR_103711 | **PAPPA-AS1** | PAPPA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494115 | NM_001162536,NM_ | **RBMXL1** | RBMX like 1 | protein_coding | 14 | 12 | 15 | 13 | 0.867 |
| 494118 | NM_001009614 | **SPANXN1** | SPANX family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494119 | NM_001009615 | **SPANXN2** | SPANX family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494127 | NR_036691 | **NFYCP2** | NFYC pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 494141 | NR_026541,NR_02 | **SLC25A51P4** | SLC25A51 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 494143 | NM_001008708,NM_ | **CHAC2** | ChaC glutathione specifi | protein_coding | 48 | 39 | 49 | 40 | 0.827 |
| 494150 | gene-PHBP19 | **PHBP19** | prohibitin pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 494188 | NM_001008777,XM_ | **FBXO47** | F-box protein 47 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494197 | NM_001009616 | **SPANXN5** | SPANX family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494323 | NR_029848,rna-MIR | **MIR361** | microRNA 361 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494324 | NR_029867,rna-MIR | **MIR375** | microRNA 375 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494325 | NR_029868,rna-MIR | **MIR376A1** | microRNA 376a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494326 | NR_029869,rna-MIR | **MIR377** | microRNA 377 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494327 | NR_029870,rna-MIR | **MIR378A** | microRNA 378a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494328 | NR_029871,rna-MIR | **MIR379** | microRNA 379 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494329 | NR_029872,rna-MIR | **MIR380** | microRNA 380 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494330 | NR_029873,rna-MIR | **MIR381** | microRNA 381 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494331 | NR_029874,rna-MIR | **MIR382** | microRNA 382 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 494332 | NR_029875,rna-MIF | **MIR383** | microRNA 383 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494333 | NR_029909,rna-MIF | **MIR384** | microRNA 384 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494334 | NR_029944,rna-MIF | **MIR422A** | microRNA 422a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494335 | NR_029945,rna-MIF | **MIR423** | microRNA 423 | miRNA | 0 | 0 | 1 | 1 | 0.954 |
| 494336 | NR_029946,rna-MIF | **MIR424** | microRNA 424 | miRNA | 0 | 0 | 1 | 1 | 1.015 |
| 494337 | NR_029948,rna-MIF | **MIR425** | microRNA 425 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 494447 | gene-COILP2 | **COILP2** | coilin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.050 |
| 494470 | NM_001256758,NM | **RNF165** | ring finger protein 165 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494513 | NM_001042702,NM | **PJVK** | pejvakin | protein_coding | 0 | 1 | 1 | 2 | 1.132 |
| 494514 | NM_001012716 | **TYMSOS** | TYMS opposite strand | protein_coding | 5 | 4 | 6 | 5 | 0.847 |
| 494540 | gene-TBCAP1 | **TBCAP1** | tubulin folding cofactor A | pseudogene | 2 | 2 | 3 | 3 | 1.161 |
| 494541 | gene-TBCAP2 | **TBCAP2** | tubulin folding cofactor A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 494551 | NM_001105558 | **WEE2** | WEE2 oocyte meiosis int | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 494555 | gene-TWF1P2 | **TWF1P2** | twinfilin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 494558 | NR_038833 | **C9orf135-DT** | C9orf135 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 497048 | NR_122107 | **KU-MEL-3** | uncharacterized LOC497 | lncRNA | 0 | 0 | 1 | 1 | 0.837 |
| 497049 | NR_024372 | **FLJ25758** | microtubule affinity regul | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 497189 | NM_001099221 | **TIFAB** | TIFA inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 497190 | NM_001011880,XM | **CLEC18B** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 497256 | NR_149022 | **LOC497256** | uncharacterized LOC497 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 497258 | NR_002832,NR_033 | **BDNF-AS** | BDNF antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.104 |
| 497259 | NR_049896 | **C18orf61** | uncharacterized LOC497 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 497634 | NR_027012 | **LINC00293** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 497661 | NM_001035005,NM | **C18orf32** | chromosome 18 open rea | protein_coding | 3 | 4 | 4 | 5 | 1.226 |
| 503497 | NM_001012417,NM | **MS4A13** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503519 | NR_038851,NR_033 | **LINC00929** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 503538 | NR_015380 | **A1BG-AS1** | A1BG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 503540 | gene-LOC503540 | **LOC503540** | AKT interacting protein p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503542 | NM_001012508 | **SPRN** | shadow of prion protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503543 | gene-BTF3P9 | **BTF3P9** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503569 | NR_033932 | **RGMB-AS1** | RGMB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 503582 | NM_001012659 | **ARGFX** | arginine-fifty homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503583 | gene-ARGFXP1 | **ARGFXP1** | arginine-fifty homeobox p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503614 | NM_001040705 | **DEFB107B** | defensin beta 107B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503618 | NM_001040702 | **DEFB104B** | defensin beta 104B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503627 | gene-TPRX2P | **TPRX2P** | tetrapeptide repeat home | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503631 | gene-DUXAP2 | **DUXAP2** | double homeobox A pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503632 | gene-DUXAP3 | **DUXAP3** | double homeobox A pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503633 | gene-DUXAP4 | **DUXAP4** | double homeobox A pseu | pseudogene | 0 | 0 | 1 | 1 | 1.096 |
| 503635 | gene-DUXAP6 | **DUXAP6** | double homeobox A pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503636 | gene-DUXAP7 | **DUXAP7** | double homeobox A pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503637 | NR_122113 | **DUXAP8** | double homeobox A pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 503638 | NR_122111,NR_122 | **DUXAP9** | double homeobox A pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 503639 | NR_110526 | **DUXAP10** | double homeobox A pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 503640 | NR_002222 | **ARGFXP2** | arginine-fifty homeobox p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 503645 | NR_002221 | **DPRXP4** | divergent-paired related | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 503693 | NR_024061 | **LOH12CR2** | loss of heterozygosity on | lncRNA | 1 | 0 | 2 | 1 | 0.721 |
| 503694 | gene-DEFB108A | **DEFB108A** | defensin beta 108A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503834 | NM_001012728,XM | **DPRX** | divergent-paired related | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503835 | NM_001012729 | **DUXA** | double homeobox A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 503837 | gene-DEFB108C | **DEFB108C** | defensin beta 108C | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503840 | gene-DEFB108E | **DEFB108E** | defensin beta 108E (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 503841 | NM_001040704 | **DEFB106B** | defensin beta 106B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 504180 | NM_001040703 | **DEFB105B** | defensin beta 105B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 504185 | gene-DEFB108D | **DEFB108D** | defensin beta 108D (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 541465 | NM_001017438,XM | **CT45A6** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 541466 | NM_001017417,XM | **CT45A1** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 541468 | NM_001013615 | **LURAP1** | leucine rich adaptor prot | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 541471 | NR_015395,NR_024 | **MIR4435-2HG** | MIR4435-2 host gene | lncRNA | 61 | 58 | 62 | 59 | 0.939 |
| 541472 | NR_131935 | **IL6-AS1** | IL6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.908 |
| 541473 | NR_003602 | **LOC541473** | FKBP prolyl isomerase 6 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 541565 | NM_001013842,NM | **C8orf58** | chromosome 8 open rea | protein_coding | 2 | 1 | 3 | 2 | 0.947 |
| 541578 | NM_001013845,XM | **EOLA2** | endothelium and lymphc | protein_coding | 32 | 26 | 33 | 27 | 0.821 |
| 541611 | gene-HSP90AB6P | **HSP90AB6P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 542767 | NM_001014442,NM | **PCOTH** | Pro-X-Gly collagen triple | protein_coding | 1 | 2 | 2 | 3 | 1.636 |
| 548313 | NM_001034832,NM | **SSX4B** | SSX family member 4B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 548593 | NM_001014999,NM | **SLX1A** | SLX1 homolog A, structu | protein_coding | 42 | 43 | 43 | 44 | 1.020 |
| 548596 | NM_001015001,NM | **CKMT1A** | creatine kinase, mitocho | protein_coding | 0 | 0 | 1 | 1 | 0.949 |
| 548599 | gene-PHBP7 | **PHBP7** | prohibitin pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 548637 | gene-DUTP1 | **DUTP1** | deoxyuridine triphosphat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 548644 | NM_001097615 | **POLR2J3** | RNA polymerase II subu | protein_coding | 30 | 34 | 31 | 35 | 1.102 |
| 548645 | NM_001015882,NR | **DNAJC25** | DnaJ heat shock protein | protein_coding | 10 | 9 | 11 | 10 | 0.980 |
| 550112 | NR_015439 | **UBA6-AS1** | UBA6 antisense RNA 1 ( | lncRNA | 17 | 19 | 18 | 20 | 1.064 |
| 550113 | NR_046116 | **LOC550113** | uncharacterized LOC550 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 550631 | NM_001017437,NM | **CCDC157** | coiled-coil domain contai | protein_coding | 2 | 2 | 3 | 3 | 0.772 |
| 550643 | NM_001348129,XM | **NBDY** | negative regulator of P-b | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 550644 | gene-SMC3P1 | **SMC3P1** | SMC3 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.130 |
| 552853 | NR_126028 | **NCRNA00250** | non-protein coding RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 552859 | NR_038901 | **LINC00251** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 552860 | NR_038210 | **SAMD12-AS1** | SAMD12 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 552879 | gene-VENTXP6 | **VENTXP6** | VENT homeobox pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 552889 | NM_001136262 | **ATXN7L3B** | ataxin 7 like 3B | protein_coding | 32 | 30 | 33 | 31 | 0.947 |
| 552891 | NM_004125 | **DNAJC25-GNG10** | DNAJC25-GNG10 readth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 552900 | NM_001031827,NM | **BOLA2** | bolA family member 2 | protein_coding | 54 | 71 | 55 | 72 | 1.295 |
| 553103 | NR_110997 | **MIR3936HG** | MIR3936 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.984 |
| 553112 | gene-FERP1 | **FERP1** | FER tyrosine kinase pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 553115 | NM_001359651,NM | **PEF1** | penta-EF-hand domain c | protein_coding | 83 | 90 | 84 | 91 | 1.087 |
| 553117 | gene-RPL39P5 | **RPL39P5** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 553121 | gene-TLK2P2 | **TLK2P2** | tousled like kinase 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 553139 | gene-LOC553139 | **LOC553139** | PAI-1 mRNA binding pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 553148 | gene-SERBP1P3 | **SERBP1P3** | SERPINE1 mRNA bindin | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 553158 | NM_181334 | **PRR5-ARHGAP8** | PRR5-ARHGAP8 readthr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 553939 | gene-LOC553939 | **LOC553939** | trimethyllysine hydroxyla | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 554049 | gene-C1DP1 | **C1DP1** | C1D nuclear receptor co | pseudogene | 1 | 1 | 2 | 2 | 1.003 |
| 554175 | gene-DNM1P33 | **DNM1P33** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 554201 | NR_038850 | **CCDC148-AS1** | CCDC148 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554202 | NR_027054,NR_152 | **MIR31HG** | MIR31 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554203 | NR_024582 | **JPX** | JPX transcript, XIST activ | lncRNA | 8 | 7 | 9 | 8 | 0.893 |
| 554206 | NR_038379 | **LOC554206** | leucine carboxyl methylt | transcribed_pseu | 2 | 3 | 3 | 4 | 1.299 |
| 554210 | NR_029957,rna-MIF | **MIR429** | microRNA 429 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554212 | NR_029955,rna-MIF | **MIR448** | microRNA 448 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554213 | NR_029960,rna-MIF | **MIR449A** | microRNA 449a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554214 | NR_029962,rna-MIF | **MIR450A1** | microRNA 450a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554224 | gene-PPIP5K1P1 | **PPIP5K1P1** | diphosphoinositol pentak | pseudogene | 4 | 3 | 5 | 4 | 0.775 |
| 554225 | NR_146078 | **STRCP1** | stereocilin pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.970 |
| 554226 | NM_001358416,NR | **ANKRD30BL** | ankyrin repeat domain 30 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 554235 | NM_001024656,NM | **ASPDH** | aspartate dehydrogenas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 554236 | NR_002833 | **DPY19L2P1** | DPY19L2 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 554249 | NR_126049 | **LOC554249** | uncharacterized LOC554 | lncRNA | 2 | 3 | 3 | 4 | 1.221 |
| 554250 | NR_161326 | **GDF5-AS1** | GDF5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554251 | NM_001024680,NR | **FBXO48** | F-box protein 48 | protein_coding | 5 | 5 | 6 | 6 | 0.998 |
| 554279 | NR_040064 | **LINC00862** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 554282 | NM_001287385,NM | **FAM72C** | family with sequence sim | protein_coding | 77 | 71 | 78 | 72 | 0.924 |
| 554313 | NM_001034077,NR | **H4C15** | H4 clustered histone 15 | protein_coding | 7 | 8 | 8 | 9 | 1.141 |
| 554354 | gene-LARP4P | **LARP4P** | LARP4 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 572558 | NR_015423,NR_12 | **PGM5-AS1** | PGM5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 573971 | gene-DHFRP1 | **DHFRP1** | dihydrofolate reductase p | pseudogene | 46 | 45 | 47 | 46 | 0.969 |
| 574016 | NR_144319,NR_164 | **CLLU1-AS1** | CLLU1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574028 | NR_027932,NR_027 | **CLLU1** | chronic lymphocytic leuk | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574029 | NR_002834 | **DUSP5P1** | dual specificity phosphat | transcribed_pseu | 0 | 1 | 1 | 2 | 1.315 |
| 574030 | NR_029850,rna-MIF | **MIR362** | microRNA 362 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574031 | NR_029852,rna-MIF | **MIR363** | microRNA 363 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574032 | NR_029950,rna-MIF | **MIR20B** | microRNA 20b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574033 | NR_029949,rna-MIF | **MIR18B** | microRNA 18b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574034 | NR_029966,rna-MIF | **MIR433** | microRNA 433 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574036 | NR_024337 | **SERTAD4-AS1** | SERTAD4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 574038 | NR_029965,ma-MIF | **MIR431** | microRNA 431 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574040 | NR_002325 | **SNORA6** | small nucleolar RNA, H/A | snoRNA | 17 | 12 | 18 | 13 | 0.691 |
| 574042 | NR_002327 | **SNORA10** | small nucleolar RNA, H/A | snoRNA | 13 | 12 | 14 | 13 | 0.949 |
| 574080 | gene-LOC574080 | **LOC574080** | CDGSH iron sulfur doma | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 574406 | NR_104133 | **ADAMTSL4-AS1** | ADAMTSL4 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574407 | NR_073154,NR_07 | **OBSCN-AS1** | OBSCN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574408 | NR_029967,ma-MIF | **MIR329-1** | microRNA 329-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574409 | NR_029968,ma-MIF | **MIR329-2** | microRNA 329-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574410 | NR_036133,ma-MIF | **MIR323B** | microRNA 323b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574411 | NR_029970,ma-MIF | **MIR451A** | microRNA 451a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574412 | NR_029973,ma-MIF | **MIR452** | microRNA 452 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574413 | NR_029975,ma-MIF | **MIR409** | microRNA 409 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574414 | NM_001195571 | **PRR9** | proline rich 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 574432 | NR_103539,NR_10 | **IBA57-DT** | IBA57 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 0.758 |
| 574433 | NR_030155,ma-MIF | **MIR412** | microRNA 412 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574434 | NR_030156,ma-MIF | **MIR410** | microRNA 410 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574435 | NR_030157,ma-MIF | **MIR376B** | microRNA 376b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574436 | NR_030160,ma-MIF | **MIR485** | microRNA 485 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574441 | NR_030163,ma-MIF | **MIR488** | microRNA 488 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574442 | NR_030164,ma-MIF | **MIR489** | microRNA 489 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574443 | NR_030165,ma-MIF | **MIR490** | microRNA 490 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574444 | NR_030166,ma-MIF | **MIR491** | microRNA 491 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574445 | NR_030167,ma-MIF | **MIR511** | microRNA 511 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574447 | NR_030169,ma-MIF | **MIR146B** | microRNA 146b | miRNA | 0 | 0 | 1 | 1 | 1.293 |
| 574448 | NR_030170,ma-MIF | **MIR202** | microRNA 202 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574449 | NR_030171,ma-MIF | **MIR492** | microRNA 492 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574450 | NR_030172,ma-MIF | **MIR493** | microRNA 493 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574451 | NR_030173,ma-MIF | **MIR432** | microRNA 432 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574452 | NR_030174,ma-MIF | **MIR494** | microRNA 494 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574453 | NR_030175,ma-MIF | **MIR495** | microRNA 495 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574454 | NR_030176,ma-MIF | **MIR496** | microRNA 496 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574455 | NR_030177,ma-MIF | **MIR193B** | microRNA 193b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574456 | NR_030178,ma-MIF | **MIR497** | microRNA 497 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574457 | NR_030179,ma-MIF | **MIR181D** | microRNA 181d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574458 | NR_030180,ma-MIF | **MIR512-1** | microRNA 512-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574459 | NR_030181,ma-MIF | **MIR512-2** | microRNA 512-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574460 | NR_030182,ma-MIF | **MIR498** | microRNA 498 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574461 | NR_030183,ma-MIF | **MIR520E** | microRNA 520e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574462 | NR_030184,ma-MIF | **MIR515-1** | microRNA 515-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574463 | NR_030185,ma-MIF | **MIR519E** | microRNA 519e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574464 | NR_030186,ma-MIF | **MIR520F** | microRNA 520f | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574465 | NR_030187,ma-MIF | **MIR515-2** | microRNA 515-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574466 | NR_030188,ma-MIF | **MIR519C** | microRNA 519c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574467 | NR_030189,ma-MIF | **MIR520A** | microRNA 520a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574468 | NR_030190,ma-MIF | **MIR526B** | microRNA 526b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574469 | NR_030191,ma-MIF | **MIR519B** | microRNA 519b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574470 | NR_030192,ma-MIF | **MIR525** | microRNA 525 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574471 | NR_030193,ma-MIF | **MIR523** | microRNA 523 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574472 | NR_030194,ma-MIF | **MIR518F** | microRNA 518f | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574473 | NR_030195,ma-MIF | **MIR520B** | microRNA 520b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574474 | NR_030196,ma-MIF | **MIR518B** | microRNA 518b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574475 | NR_030197,ma-MIF | **MIR526A1** | microRNA 526a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574476 | NR_030198,ma-MIF | **MIR520C** | microRNA 520c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574477 | NR_030199,ma-MIF | **MIR518C** | microRNA 518c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574478 | NR_030200,ma-MIF | **MIR524** | microRNA 524 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574479 | NR_030201,ma-MIF | **MIR517A** | microRNA 517a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574480 | NR_030202,ma-MIF | **MIR519D** | microRNA 519d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574481 | NR_030203,ma-MIF | **MIR521-2** | microRNA 521-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574482 | NR_030204,ma-MIF | **MIR520D** | microRNA 520d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574483 | NR_030205,ma-MIF | **MIR517B** | microRNA 517b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574484 | NR_030206,ma-MIF | **MIR520G** | microRNA 520g | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574485 | NR_030207,ma-MIF | **MIR516B2** | microRNA 516b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574486 | NR_030208,ma-MIF | **MIR526A2** | microRNA 526a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574487 | NR_030209,ma-MIF | **MIR518E** | microRNA 518e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574488 | NR_030210,ma-MIF | **MIR518A1** | microRNA 518a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574489 | NR_030211,ma-MIF | **MIR518D** | microRNA 518d | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574490 | NR_030212,ma-MIF | **MIR516B1** | microRNA 516b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574491 | NR_030213,ma-MIF | **MIR518A2** | microRNA 518a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574492 | NR_030214,ma-MIF | **MIR517C** | microRNA 517c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574493 | NR_030215,ma-MIF | **MIR520H** | microRNA 520h | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574494 | NR_030216,ma-MIF | **MIR521-1** | microRNA 521-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574495 | NR_030217,ma-MIF | **MIR522** | microRNA 522 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574496 | NR_030218,ma-MIF | **MIR519A1** | microRNA 519a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574497 | NR_030219,ma-MIF | **MIR527** | microRNA 527 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574498 | NR_030220,ma-MIF | **MIR516A1** | microRNA 516a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574499 | NR_030221,ma-MIF | **MIR516A2** | microRNA 516a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574500 | NR_030222,ma-MIF | **MIR519A2** | microRNA 519a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574501 | NR_030223,ma-MIF | **MIR499A** | microRNA 499a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574502 | NR_030224,ma-MIF | **MIR500A** | microRNA 500a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574503 | NR_030225,ma-MIF | **MIR501** | microRNA 501 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574504 | NR_030226,ma-MIF | **MIR502** | microRNA 502 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574505 | NR_030227,ma-MIF | **MIR450A2** | microRNA 450a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574506 | NR_030228,ma-MIF | **MIR503** | microRNA 503 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574507 | NR_030229,ma-MIF | **MIR504** | microRNA 504 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574508 | NR_030230,ma-MIF | **MIR505** | microRNA 505 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574509 | NR_030231,ma-MIF | **MIR513A1** | microRNA 513a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574510 | NR_030232,ma-MIF | **MIR513A2** | microRNA 513a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574511 | NR_030233,ma-MIF | **MIR506** | microRNA 506 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574512 | NR_030234,ma-MIF | **MIR507** | microRNA 507 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574513 | NR_030235,ma-MIF | **MIR508** | microRNA 508 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574514 | NR_030236,ma-MIF | **MIR509-1** | microRNA 509-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574515 | NR_030237,ma-MIF | **MIR510** | microRNA 510 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574516 | NR_030238,ma-MIF | **MIR514A1** | microRNA 514a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574517 | NR_030239,ma-MIF | **MIR514A2** | microRNA 514a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574518 | NR_030240,ma-MIF | **MIR514A3** | microRNA 514a-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 574532 | gene-NUDT15P1 | **NUDT15P1** | nudix hydrolase 15 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 574533 | gene-NUDT15P2 | **NUDT15P2** | nudix hydrolase 15 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 574537 | NM_001105677,NM | **UGT2A2** | UDP glucuronosyltransfe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 574538 | NR_033859 | **LOC574538** | uncharacterized LOC574 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 594837 | NR_002434 | **SNORD101** | small nucleolar RNA, C/I | snoRNA | 7 | 6 | 8 | 7 | 0.845 |
| 594838 | NR_002435 | **SNORD100** | small nucleolar RNA, C/I | snoRNA | 4 | 4 | 5 | 5 | 0.973 |
| 594839 | NR_002436 | **SNORA33** | small nucleolar RNA, H/A | snoRNA | 5 | 8 | 6 | 9 | 1.420 |
| 594840 | NR_002438 | **ZFAT-AS1** | ZFAT antisense RNA 1 | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 594841 | gene-WDR45P1 | **WDR45P1** | WD repeat domain 45 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 594842 | NR_002835 | **HAS2-AS1** | HAS2 antisense RNA 1 | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 594855 | NM_001030005 | **CPLX3** | complexin 3 | protein_coding | 0 | 0 | 1 | 1 | 0.954 |
| 594857 | NM_001030013 | **NPS** | neuropeptide S | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 595097 | NR_002440 | **SNORD16** | small nucleolar RNA, C/I | snoRNA | 32 | 39 | 33 | 40 | 1.198 |
| 595098 | NR_002441 | **SNORD18A** | small nucleolar RNA, C/I | snoRNA | 1 | 2 | 2 | 3 | 1.387 |
| 595099 | NR_002442 | **SNORD18B** | small nucleolar RNA, C/I | snoRNA | 4 | 1 | 5 | 2 | 0.307 |
| 595100 | NR_002443 | **SNORD18C** | small nucleolar RNA, C/I | snoRNA | 19 | 14 | 20 | 15 | 0.754 |
| 595101 | NR_002453 | **SMG1P5** | SMG1 pseudogene 5 | transcribed_pseu | 20 | 19 | 21 | 20 | 0.983 |
| 595135 | NR_002836 | **PGM5P2** | phosphoglucomutase 5 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 606293 | NR_002948 | **KLKP1** | kallikrein pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 606495 | NM_001031672,NM | **CYB5RL** | cytochrome b5 reductase | protein_coding | 15 | 15 | 16 | 16 | 0.993 |
| 606500 | NR_002450 | **SNORD68** | small nucleolar RNA, C/I | snoRNA | 16 | 13 | 17 | 14 | 0.819 |
| 606551 | NR_002837 | **UBE2MP1** | ubiquitin conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 0.989 |
| 606553 | NM_001031839 | **C8orf49** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 606724 | NR_002454 | **LOC606724** | coronin 1A pseudogene | transcribed_pseu | 26 | 30 | 27 | 31 | 1.163 |
| 613037 | NM_001321892 | **NPIPB13** | nuclear pore complex int | protein_coding | 4 | 4 | 5 | 5 | 0.998 |
| 613038 | NR_002557 | **LOC613038** | SAGA complex associate | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 613126 | NR_122109,NR_12 | **CYP51A1-AS1** | CYP51A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.964 |
| 613204 | gene-IFITM8P | **IFITM8P** | interferon induced transr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 613206 | NR_149024 | **LOC613206** | uncharacterized LOC613 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 613209 | NM_001033017 | **DEFB135** | defensin beta 135 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 613210 | NM_001033018 | **DEFB136** | defensin beta 136 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 613211 | NM_001302695,XM_ | **DEFB134** | defensin beta 134 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 613212 | NM_001048252,NM | **CTXN3** | cortexin 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 613227 | NM_001109619,XM_ | **HIGD1C** | HIG1 hypoxia inducible d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 613266 | NR_130924,NR_13( | **LOC613266** | uncharacterized LOC613 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619189 | NM_001258031,NM | **SERINC4** | serine incorporator 4 | protein_coding | 0 | 0 | 1 | 1 | 0.881 |
| 619190 | NR_003262 | **FDPSP2** | farnesyl diphosphate syr | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 619207 | NR_149718 | **SCART1** | scavenger receptor famil | transcribed_pseu | 5 | 5 | 6 | 6 | 1.109 |
| 619208 | NM_001033564,XM | **FAM229B** | family with sequence sim | protein_coding | 8 | 8 | 9 | 9 | 1.081 |
| 619212 | gene-PA2G4P3 | **PA2G4P3** | proliferation-associated 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 619279 | NM_001033723,NM | **ZNF704** | zinc finger protein 704 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 619344 | NR_046232 | **LINC01298** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619349 | gene-SETP3 | **SETP3** | SET pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 619351 | NR_026765 | **LINC00589** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619373 | NM_001100916,XM_ | **MBOAT4** | membrane bound O-acy | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 619383 | NR_002569 | **SCARNA9** | small Cajal body-specific | guide_RNA | 2 | 3 | 3 | 4 | 1.155 |
| 619418 | gene-FAM90A21P | **FAM90A21P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 619423 | NR_146925 | **FAM85A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619434 | NR_024378 | **LINC00051** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619443 | gene-RPS26P7 | **RPS26P7** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.077 |
| 619445 | gene-RPL10P3 | **RPL10P3** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 0.964 |
| 619448 | gene-RPS12P2 | **RPS12P2** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 619449 | gene-RPIAP1 | **RPIAP1** | ribose 5-phosphate isom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 619455 | NR_037183 | **SPANXA2-OT1** | SPANXA2 overlapping tr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619457 | gene-UBE2WP1 | **UBE2WP1** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 619498 | NR_002579 | **SNORD74** | small nucleolar RNA, C/I | snoRNA | 32 | 30 | 33 | 31 | 0.929 |
| 619499 | NR_002575 | **SNORA27** | small nucleolar RNA, H/A | snoRNA | 9 | 5 | 10 | 6 | 0.623 |
| 619505 | NR_002576 | **SNORA21** | small nucleolar RNA, H/A | snoRNA | 9 | 8 | 10 | 9 | 0.934 |
| 619518 | NR_103541 | **SSBP3-AS1** | SSBP3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619519 | gene-TWF1P1 | **TWF1P1** | twinfilin 1 pseudogene 1 | pseudogene | 2 | 2 | 3 | 3 | 1.149 |
| 619552 | NR_030158,rna-MIR | **MIR483** | microRNA 483 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619553 | NR_030159,rna-MIR | **MIR484** | microRNA 484 | miRNA | 0 | 0 | 1 | 1 | 0.987 |
| 619554 | NR_030161,rna-MIR | **MIR486-1** | microRNA 486-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619555 | NR_030162,rna-MIR | **MIR487A** | microRNA 487a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619556 | NR_030255,rna-MIR | **MIR455** | microRNA 455 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 619562 | NR_002580 | **SNORA3A** | small nucleolar RNA, H/A | snoRNA | 9 | 10 | 10 | 11 | 1.034 |
| 619563 | NR_002582 | **SNORA7A** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.001 |
| 619564 | NR_002583 | **SNORD72** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.163 |
| 619565 | NR_002585 | **SNORA52** | small nucleolar RNA, H/A | snoRNA | 10 | 7 | 11 | 8 | 0.715 |
| 619567 | NR_002587 | **SNORD2** | small nucleolar RNA, C/I | snoRNA | 38 | 28 | 39 | 29 | 0.729 |
| 619568 | NR_002588 | **SNORA4** | small nucleolar RNA, H/A | snoRNA | 16 | 20 | 17 | 21 | 1.243 |
| 619569 | NR_002590 | **SNORA41** | small nucleolar RNA, H/A | snoRNA | 4 | 3 | 5 | 4 | 0.807 |
| 619570 | NR_002591 | **SNORD95** | small nucleolar RNA, C/I | snoRNA | 8 | 7 | 9 | 8 | 0.931 |
| 619571 | NR_002592 | **SNORD96A** | small nucleolar RNA, C/I | snoRNA | 49 | 54 | 50 | 55 | 1.089 |
| 641293 | gene-RPL21P19 | **RPL21P19** | ribosomal protein L21 ps | pseudogene | 3 | 5 | 4 | 6 | 1.399 |
| 641298 | NR_027154 | **SMG1P1** | SMG1 pseudogene 1 | transcribed_pseu | 15 | 11 | 16 | 12 | 0.768 |
| 641311 | NR_002595 | **RPL31P11** | ribosomal protein L31 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 0.959 |
| 641339 | NM_001039891,NM | **ZNF674** | zinc finger protein 674 | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 641364 | NR_038380 | **SLC7A11-AS1** | SLC7A11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641365 | NR_037866 | **LINC00616** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641367 | NR_024523 | **CCNYL6** | cyclin Y like 6 (pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 641371 | NM_001037161,XM_ | **ACOT1** | acyl-CoA thioesterase 1 | protein_coding | 3 | 4 | 4 | 5 | 1.256 |
| 641372 | NM_001037162,NM | **ACOT6** | acyl-CoA thioesterase 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641373 | NR_045006 | **NRON** | non-coding repressor of | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641378 | gene-ARL5AP5 | **ARL5AP5** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641381 | gene-LOC641381 | **LOC641381** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641384 | NR_103558 | **TMEM75** | transmembrane protein 7 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641451 | NR_002917 | **SNORA19** | small nucleolar RNA, H/A | snoRNA | 3 | 5 | 4 | 6 | 1.642 |
| 641455 | NM_001145442 | **POTEM** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641456 | gene-CRIP1P2 | **CRIP1P2** | cysteine rich protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641457 | gene-CRIP1P4 | **CRIP1P4** | cysteine rich protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641467 | NR_038381 | **TSC22D1-AS1** | TSC22D1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.223 |
| 641515 | NR_038135 | **MGAT4EP** | MGAT4 family member E | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 641516 | NR_002838 | **KC6** | keratoconus gene 6 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641517 | NM_001037380 | **DEFB109B** | defensin beta 109B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641518 | NR_029373,NR_029 | **LEF1-AS1** | LEF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641556 | gene-RPL36AP6 | **RPL36AP6** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641613 | gene-RPL21P5 | **RPL21P5** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.933 |
| 641614 | gene-RPL23AP8 | **RPL23AP8** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641616 | gene-RPL9P3 | **RPL9P3** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.065 |
| 641638 | NR_002599,NR_152 | **SNHG6** | small nucleolar RNA hos | lncRNA | 135 | 152 | 136 | 153 | 1.125 |
| 641648 | NR_002598 | **SNORD87** | small nucleolar RNA, C/I | snoRNA | 29 | 21 | 30 | 22 | 0.725 |
| 641649 | NM_001042595,NM | **TMEM91** | transmembrane protein 9 | protein_coding | 1 | 1 | 2 | 2 | 0.871 |
| 641654 | NM_001037558 | **HEPN1** | hepatocellular carcinoma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641695 | gene-LOC641695 | **LOC641695** | reticulon 4 interacting pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641700 | NM_001077693,NM | **ECSCR** | endothelial cell surface e | protein_coding | 0 | 0 | 1 | 1 | 0.845 |
| 641702 | NR_026820 | **FAM138F** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 641708 | gene-LOC641708 | **LOC641708** | hydroxysteroid 17-beta d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641746 | NR_033245 | **LOC641746** | glycine cleavage system | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 641776 | NM_001382494,NM | **SPDYE14** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 641790 | gene-RPL31P39 | **RPL31P39** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641808 | NR_146190 | **FAM185BP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.060 |
| 641922 | gene-UNC93B2 | **UNC93B2** | unc-93 homolog B2 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641924 | gene-FAM86LP | **FAM86LP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 641977 | NR_024271 | **SEPTIN7P2** | septin 7 pseudogene 2 | transcribed_pseu | 4 | 5 | 5 | 6 | 1.101 |
| 642006 | NR_030766 | **GUSBP10** | GUSB pseudogene 10 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642131 | NR_135667 | **LOC642131** | immunoglobulin IGHV1C | transcribed_pseu | 0 | 1 | 1 | 2 | 1.252 |
| 642236 | NR_033907 | **FRG1JP** | FSHD region gene 1 fam | transcribed_pseu | 3 | 2 | 4 | 3 | 0.841 |
| 642259 | gene-GAPDHP70 | **GAPDHP70** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642262 | gene-NCOA4P4 | **NCOA4P4** | nuclear receptor coactiva | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642273 | NM_001077710,XM_ | **FAM110C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642280 | NR_027481 | **ZNF876P** | zinc finger protein 876, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642305 | gene-MAPRE1P2 | **MAPRE1P2** | MAPRE1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642306 | gene-RPL19P15 | **RPL19P15** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642311 | gene-BMS1P15 | **BMS1P15** | BMS1 pseudogene 15 | pseudogene | 1 | 1 | 2 | 2 | 0.954 |
| 642317 | gene-GAPDHP15 | **GAPDHP15** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642319 | gene-TAGLN2P2 | **TAGLN2P2** | transgelin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642320 | gene-RPL36AP31 | **RPL36AP31** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 642337 | gene-FTLP17 | **FTLP17** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642345 | NR_033829 | **MIR4500HG** | MIR4500 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642357 | gene-EEF1GP5 | **EEF1GP5** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642361 | NR_029407 | **LOC642361** | uncharacterized LOC642 | lncRNA | 4 | 3 | 5 | 4 | 0.769 |
| 642366 | NR_046243 | **LOC642366** | uncharacterized LOC642 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642381 | gene-LOC642381 | **LOC642381** | speckle type BTB/POZ p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642389 | gene-RBM17P2 | **RBM17P2** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642394 | NR_033387,NR_152 | **ADARB2-AS1** | ADARB2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642395 | gene-PSPC1P1 | **PSPC1P1** | paraspeckle component | pseudogene | 2 | 2 | 3 | 3 | 1.074 |
| 642402 | NR_111962 | **GOLGA6L17P** | golgin A6 family like 17, | transcribed_pseu | 2 | 2 | 3 | 3 | 1.023 |
| 642413 | gene-CTSLP6 | **CTSLP6** | cathepsin L pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642414 | gene-LOC642414 | **LOC642414** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642425 | gene-TRIM53BP | **TRIM53BP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642426 | NR_046104 | **LINC02297** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642443 | gene-ADH5P4 | **ADH5P4** | ADH5 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.139 |
| 642446 | NM_001164397,XM_ | **TRIM64B** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642448 | gene-KRT18P23 | **KRT18P23** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642460 | gene-ANKRD30BP1 | **ANKRD30BP1** | ankyrin repeat domain 3( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642474 | gene-LOC642474 | **LOC642474** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642475 | NM_001100878,XM_ | **MROH6** | maestro heat like repeat | protein_coding | 1 | 1 | 2 | 2 | 1.049 |
| 642484 | NR_148972 | **LOC642484** | uncharacterized LOC642 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642487 | gene-LOC642487 | **LOC642487** | H1.8 linker histone pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642489 | gene-FKBP1C | **FKBP1C** | FKBP prolyl isomerase 1 | pseudogene | 4 | 5 | 5 | 6 | 1.208 |
| 642490 | gene-LOC642490 | **LOC642490** | S-phase kinase associat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642493 | gene-RPL29P25 | **RPL29P25** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642496 | gene-LOC642496 | **LOC642496** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642502 | gene-LOC642502 | **LOC642502** | succinate dehydrogenas | pseudogene | 13 | 13 | 14 | 14 | 0.995 |
| 642513 | gene-KCTD9P6 | **KCTD9P6** | potassium channel tetrar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642515 | NM_001365666,XM_ | **PRRT1B** | proline rich transmembra | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 642517 | NM_001190810 | **AGAP9** | ArfGAP with GTPase dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642521 | gene-C1DP3 | **C1DP3** | C1D nuclear receptor co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642538 | gene-C1DP2 | **C1DP2** | C1D nuclear receptor co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642546 | gene-HK2P1 | **HK2P1** | hexokinase 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 0.961 |
| 642550 | gene-LOC642550 | **LOC642550** | v-ral simian leukemia vira | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642554 | gene-LOC642554 | **LOC642554** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642559 | NR_036440 | **POU5F1P3** | POU class 5 homeobox 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642569 | NR_028346 | **TRIM53AP** | tripartite motif containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642574 | NM_001381874,NM | **IQANK1** | IQ motif and ankyrin repe | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 642579 | gene-LOC642579 | **LOC642579** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642580 | gene-HSPA8P14 | **HSPA8P14** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642585 | gene-VDAC1P1 | **VDAC1P1** | voltage dependent anion | pseudogene | 1 | 1 | 2 | 2 | 0.954 |
| 642587 | NR_145433,NR_14 | **MIR205HG** | MIR205 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642590 | gene-LOC642590 | **LOC642590** | spermine synthase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.146 |
| 642592 | gene-EIF5AP4 | **EIF5AP4** | eukaryotic translation init | pseudogene | 2 | 1 | 3 | 2 | 0.816 |
| 642597 | NM_001145194,NM | **AKAIN1** | A-kinase anchor inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.032 |
| 642612 | NM_001195234,XM | **TRIM49C** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642614 | gene-C2orf69P2 | **C2orf69P2** | chromosome 2 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642623 | NM_001143975 | **UBTFL1** | upstream binding transci | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642631 | gene-TSPY15P | **TSPY15P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642633 | NR_165621 | **FAM230B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642636 | NM_001136566,XM | **RAD21L1** | RAD21 cohesin complex | protein_coding | 0 | 0 | 1 | 1 | 0.926 |
| 642641 | gene-RPSAP54 | **RPSAP54** | ribosomal protein SA pse | pseudogene | 7 | 8 | 8 | 9 | 1.039 |
| 642643 | NR_136561,NR_16 | **FAM230E** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642648 | NR_148973 | **LOC642648** | uncharacterized LOC642 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642658 | NM_001080514,XM | **SCX** | scleraxis bHLH transcript | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 642659 | gene-HNRNPA1P48 | **HNRNPA1P48** | heterogeneous nuclear r | pseudogene | 9 | 10 | 10 | 11 | 1.116 |
| 642661 | gene-TOMM40P1 | **TOMM40P1** | TOMM40 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 642677 | gene-LOC642677 | **LOC642677** | stabilizer of axonemal mi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642687 | gene-RPS11P7 | **RPS11P7** | ribosomal protein S11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642692 | gene-CEP19P1 | **CEP19P1** | CEP19 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642696 | XR_109256 | **LOC642696** | uncharacterized LOC642 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642721 | gene-CBX3P6 | **CBX3P6** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642737 | gene-SETP22 | **SETP22** | SET pseudogene 22 | pseudogene | 0 | 0 | 1 | 1 | 1.066 |
| 642738 | gene-RPL21P69 | **RPL21P69** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.920 |
| 642740 | gene-RPL9P11 | **RPL9P11** | ribosomal protein L9 pse | pseudogene | 1 | 1 | 2 | 2 | 1.100 |
| 642741 | gene-RPL3P7 | **RPL3P7** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 642746 | gene-EIF4A1P9 | **EIF4A1P9** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642757 | NR_122047 | **TBC1D22A-AS1** | TBC1D22A antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642762 | gene-ABCD1P5 | **ABCD1P5** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642776 | NR_130730,NR_13 | **DANT2** | DXZ4 associated non-co | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642778 | NM_001277323,XM | **NPIPA3** | nuclear pore complex int | protein_coding | 3 | 4 | 4 | 5 | 1.050 |
| 642796 | gene-TSPY18P | **TSPY18P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642799 | NM_001277324,XM | **NPIPA2** | nuclear pore complex int | protein_coding | 3 | 4 | 4 | 5 | 1.127 |
| 642802 | gene-CCDC137P | **CCDC137P** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642812 | gene-API5P1 | **API5P1** | apoptosis inhibitor 5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.031 |
| 642818 | gene-ST13P21 | **ST13P21** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642819 | NM_001355444,NM | **ZNF487** | zinc finger protein 487 | protein_coding | 1 | 1 | 2 | 2 | 1.061 |
| 642826 | NR_024495 | **BMS1P2** | BMS1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.003 |
| 642828 | gene-RPL6P10 | **RPL6P10** | ribosomal protein L6 pse | pseudogene | 17 | 19 | 18 | 20 | 1.160 |
| 642840 | gene-MEP1AP1 | **MEP1AP1** | meprin A subunit alpha p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642843 | NM_001129885,XM | **CPSF4L** | cleavage and polyadenyl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642846 | NR_024374 | **LOC642846** | DEAD/H (Asp-Glu-Ala-As | lncRNA | 4 | 4 | 5 | 5 | 0.942 |
| 642852 | NR_026943 | **LINC00205** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.079 |
| 642864 | NR_034168,NR_04 | **SPATA42** | spermatogenesis associa | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642869 | gene-SETP4 | **SETP4** | SET pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642879 | gene-SMARCE1P4 | **SMARCE1P4** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642888 | gene-CNN2P2 | **CNN2P2** | calponin 2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642890 | gene-LOC642890 | **LOC642890** | N-alpha-acetyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642892 | gene-RPS29P3 | **RPS29P3** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642897 | gene-LOC642897 | **LOC642897** | N-6 adenine-specific DN | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642907 | gene-NIFKP8 | **NIFKP8** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642909 | gene-CTBP2P4 | **CTBP2P4** | CTBP2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642924 | NR_033858 | **LINC00535** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642929 | NR_027472 | **LOC642929** | general transcription fact | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642934 | NR_134505 | **CERNA2** | competing endogenous l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 642935 | gene-ADAMTS7P4 | **ADAMTS7P4** | ADAMTS7 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 642938 | NM_001039762,XM | **INSYN2A** | inhibitory synaptic factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642943 | NR_111003 | **LOC642943** | SPATA31 subfamily A ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 642946 | NR_027285,NR_02 | **FLVCR1-DT** | FLVCR1 divergent transc | lncRNA | 20 | 21 | 21 | 22 | 1.073 |
| 642954 | gene-RBBP4P1 | **RBBP4P1** | RBBP4 pseudogene 1 | pseudogene | 1 | 0 | 2 | 1 | 0.858 |
| 642956 | gene-FABP5P9 | **FABP5P9** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 642958 | gene-HNRNPA1P55 | **HNRNPA1P55** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.957 |
| 642959 | gene-ALOX15P2 | **ALOX15P2** | arachidonate 15-lipoxyge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 642968 | NM_001080515,NM | **FAM163B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 642969 | gene-LOC642969 | **LOC642969** | phosphoglycerate mutas | pseudogene | 87 | 84 | 88 | 85 | 0.968 |
| 642975 | gene-LOC642975 | **LOC642975** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.025 |
| 642976 | NR_027021 | **GRIK1-AS1** | GRIK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.898 |
| 642987 | NM_001039763,XM | **TMEM232** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 642996 | gene-NFE2L3P1 | **NFE2L3P1** | nuclear factor, erythroid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643001 | gene-DUX4L17 | **DUX4L17** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643003 | gene-RPS26P28 | **RPS26P28** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.155 |
| 643007 | gene-RPL36AP8 | **RPL36AP8** | ribosomal protein L36a p | pseudogene | 1 | 0 | 2 | 1 | 0.834 |
| 643008 | NM_001162995,NR | **SMIM5** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643015 | gene-LOC643015 | **LOC643015** | nucleolar protein 11 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643034 | gene-DUX4L19 | **DUX4L19** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643036 | NR_003542 | **SLED1** | proteoglycan 3, pro eosir | transcribed_pseu | 0 | 0 | 1 | 1 | 1.100 |
| 643037 | NM_001190462 | **C11orf97** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643050 | gene-ACTR3BP1 | **ACTR3BP1** | ACTR3B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643058 | gene-IFITM3P6 | **IFITM3P6** | IFITM3P pseudogene 6 | pseudogene | 1 | 0 | 2 | 1 | 0.631 |
| 643067 | gene-LOC643067 | **LOC643067** | HORMA domain containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643072 | NR_110587,NR_11 | **LOC643072** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643101 | gene-RPL26P22 | **RPL26P22** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643115 | gene-KRT223P | **KRT223P** | keratin 223 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643118 | gene-LOC643118 | **LOC643118** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.164 |
| 643126 | gene-TRIM51JP | **TRIM51JP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643136 | NM_001355457 | **ZC3H11B** | zinc finger CCCH-type co | protein_coding | 1 | 1 | 2 | 2 | 0.865 |
| 643155 | NM_001048249 | **SMIM15** | small integral membrane | protein_coding | 113 | 99 | 114 | 100 | 0.883 |
| 643157 | gene-MEP1AP4 | **MEP1AP4** | meprin A subunit alpha p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643159 | gene-ATF4P3 | **ATF4P3** | activating transcription fa | pseudogene | 1 | 1 | 2 | 2 | 0.834 |
| 643160 | NR_003599 | **CYMP** | chymosin, pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643161 | NM_001146157 | **FAM25A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643168 | gene-LOC643168 | **LOC643168** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643171 | gene-GGT4P | **GGT4P** | gamma-glutamyltransfer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643172 | gene-LOC643172 | **LOC643172** | neurofilament heavy poly | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643180 | NR_033416 | **CCT6P3** | chaperonin containing TC | transcribed_pseu | 4 | 4 | 5 | 5 | 1.057 |
| 643182 | gene-UBTFL8 | **UBTFL8** | UBTF like 8 (pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643193 | gene-CALM2P4 | **CALM2P4** | calmodulin 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643199 | gene-TAB3P1 | **TAB3P1** | TGF-beta activated kinas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643201 | NR_036494 | **LOC643201** | centrosomal protein 192 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.064 |
| 643219 | gene-GPAT2P1 | **GPAT2P1** | glycerol-3-phosphate ac | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643220 | gene-RPL3P6 | **RPL3P6** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643224 | NR_027156 | **TUBBP5** | tubulin beta pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643226 | NM_001080516,XM | **GRXCR2** | glutaredoxin and cystein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643228 | gene-GAPDHP30 | **GAPDHP30** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643232 | gene-NRBF2P3 | **NRBF2P3** | nuclear receptor binding | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 643236 | NM_001123376,NM | **TMEM72** | transmembrane protein 7 | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 643246 | NM_001085481 | **MAP1LC3B2** | microtubule associated p | protein_coding | 1 | 1 | 2 | 2 | 1.049 |
| 643253 | NR_003110 | **CCT6P1** | chaperonin containing TC | transcribed_pseu | 10 | 10 | 11 | 11 | 1.043 |
| 643255 | gene-RARRES2P1 | **RARRES2P1** | retinoic acid receptor res | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643264 | gene-RPL21P106 | **RPL21P106** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643276 | gene-NOC2LP1 | **NOC2LP1** | NOC2 like nucleolar ass | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 643284 | gene-RPS29P18 | **RPS29P18** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 0.835 |
| 643300 | gene-HSPD1P1 | **HSPD1P1** | heat shock protein family | pseudogene | 19 | 19 | 20 | 20 | 1.005 |
| 643308 | gene-RPL7P59 | **RPL7P59** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643309 | gene-ACTBP1 | **ACTBP1** | ACTB pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 643310 | gene-ST13P18 | **ST13P18** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 0.876 |
| 643311 | NM_001145718,XM | **CT47B1** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643314 | NM_015038 | **KIAA0754** | KIAA0754 | protein_coding | 0 | 0 | 1 | 1 | 1.099 |
| 643327 | NR_147844 | **LOC643327** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643329 | gene-KRT18P57 | **KRT18P57** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643332 | NR_033909 | **ECRP** | ribonuclease A family me | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643336 | gene-CDC42P2 | **CDC42P2** | cell division cycle 42 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643338 | NM_001130448 | **C15orf62** | chromosome 15 open re | protein_coding | 0 | 0 | 1 | 1 | 0.860 |
| 643339 | NR_040096 | **LOC643339** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643342 | gene-LOC643342 | **LOC643342** | ATM interactor pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 643343 | gene-RPL5P4 | **RPL5P4** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.129 |
| 643353 | gene-SAPCD2P3 | **SAPCD2P3** | suppressor APC domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643355 | NR_145438 | **LINC01750** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643365 | NR_164112 | **LINC00452** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643373 | gene-LOC643373 | **LOC643373** | glucuronidase beta pseu | pseudogene | 0 | 0 | 1 | 1 | 1.059 |
| 643376 | NM_001145101,XM | **BTBD18** | BTB domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643381 | gene-LOC643381 | **LOC643381** | zinc finger protein 614 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643382 | NM_001146683,XM | **TMEM253** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643384 | gene-UNC93B4 | **UNC93B4** | unc-93 homolog B4 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643387 | NR_026923 | **LOC643387** | TAR DNA binding protein | transcribed_pseu | 0 | 1 | 1 | 2 | 1.204 |
| 643394 | NM_001040433,XM | **SPINK9** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643401 | NR_038848 | **PURPL** | p53 upregulated regulato | lncRNA | 3 | 1 | 4 | 2 | 0.573 |
| 643406 | NR_029405 | **LOC643406** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643412 | gene-BTF3P16 | **BTF3P16** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 0.905 |
| 643414 | NM_001080518,NM | **LIPK** | lipase family member K | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643418 | NM_001102469,XM | **LIPN** | lipase family member N | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643421 | gene-TPT1P13 | **TPT1P13** | tumor protein, translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643427 | gene-RBMS2P1 | **RBMS2P1** | RNA binding motif single | pseudogene | 0 | 0 | 1 | 1 | 0.875 |
| 643432 | NR_015362,NR_152 | **TSG1** | tumor suppressor TSG1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643438 | gene-LOC643438 | **LOC643438** | huntingtin interacting pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643441 | NR_038846 | **LOC643441** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643445 | gene-TRIM43CP | **TRIM43CP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643446 | gene-RNPS1P1 | **RNPS1P1** | RNA binding protein with | pseudogene | 2 | 2 | 3 | 3 | 0.961 |
| 643447 | gene-KRT8P49 | **KRT8P49** | keratin 8 pseudogene 49 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643454 | gene-LOC643454 | **LOC643454** | adaptor related protein c | pseudogene | 1 | 0 | 2 | 1 | 0.822 |
| 643459 | gene-DUSP5P2 | **DUSP5P2** | dual specificity phosphat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643470 | gene-SURF6P1 | **SURF6P1** | surfeit 6 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643471 | gene-KRT18P12 | **KRT18P12** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643479 | NM_001351234 | **FAM25E** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643486 | NR_003539 | **BRDTP1** | bromodomain testis assc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643494 | gene-LOC643494 | **LOC643494** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643499 | gene-RPL11P5 | **RPL11P5** | ribosomal protein L11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643503 | gene-TARDBPP1 | **TARDBPP1** | TAR DNA binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643513 | gene-KPNA2P1 | **KPNA2P1** | karyopherin subunit alph | pseudogene | 0 | 0 | 1 | 1 | 0.969 |
| 643529 | NR_038382 | **LINC00865** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 643531 | gene-RPL29P26 | **RPL29P26** | ribosomal protein L29 ps | pseudogene | 1 | 2 | 2 | 3 | 1.193 |
| 643535 | gene-KCTD9P2 | **KCTD9P2** | potassium channel tetra | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 643536 | gene-VDAC1P10 | **VDAC1P10** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643542 | NR_033921 | **LOC643542** | uncharacterized LOC643 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643550 | gene-RPL12P33 | **RPL12P33** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643554 | gene-LOC643554 | **LOC643554** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643562 | gene-LOC643562 | **LOC643562** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 643563 | gene-EEF1A1P15 | **EEF1A1P15** | eukaryotic translation elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643576 | gene-LOC643576 | **LOC643576** | phosphoglycerate mutas | pseudogene | 45 | 49 | 46 | 50 | 1.086 |
| 643586 | gene-PKMP1 | **PKMP1** | pyruvate kinase M1/2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 643596 | NM_001190228,XM | **RNF224** | ring finger protein 224 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643605 | gene-LOC643605 | **LOC643605** | CTD small phosphatase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643615 | gene-UBTFL6 | **UBTFL6** | UBTF like 6 (pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643617 | gene-RPSAP8 | **RPSAP8** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 643623 | NR_038906 | **LINC02523** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643627 | gene-RPS18P8 | **RPS18P8** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643630 | gene-LOC643630 | **LOC643630** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 643637 | gene-GLYATL1P4 | **GLYATL1P4** | glycine-N-acyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643641 | NM_001099220,XM | **ZNF862** | zinc finger protein 862 | protein_coding | 1 | 1 | 2 | 2 | 1.039 |
| 643646 | gene-HSD17B1P1 | **HSD17B1P1** | hydroxysteroid 17-beta d | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 643648 | NR_046203 | **LINC01189** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643650 | NR_033957 | **LINC00842** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643653 | gene-RPL35P8 | **RPL35P8** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643664 | NM_001102614 | **SLC35G6** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643668 | gene-PSMC1P9 | **PSMC1P9** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.071 |
| 643669 | NM_001243212,XM | **CCER2** | coiled-coil glutamate rich | protein_coding | 0 | 0 | 1 | 1 | 1.024 |
| 643677 | NM_001146197,XM | **CCDC168** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.912 |
| 643680 | NM_001351235,XM | **MS4A4E** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643689 | gene-HNRNPA3P3 | **HNRNPA3P3** | heterogeneous nuclear r | pseudogene | 3 | 3 | 4 | 4 | 0.941 |
| 643699 | NM_001282494 | **GOLGA8N** | golgin A8 family member | protein_coding | 29 | 23 | 30 | 24 | 0.789 |
| 643707 | NM_001267536,XM | **GOLGA6L4** | golgin A6 family like 4 | protein_coding | 1 | 1 | 2 | 2 | 0.868 |
| 643709 | gene-LOC643709 | **LOC643709** | macrophage expressed 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643711 | NR_077240,NR_077 | **PAFAH1B2P2** | PAFAH1B2 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643714 | NR_033920 | **CASC16** | cancer susceptibility 16 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 643719 | NR_027620 | **SCGB1B2P** | secretoglobin family 1B r | transcribed_pseu | 4 | 3 | 5 | 4 | 0.956 |
| 643723 | NR_038845 | **LYPLAL1-DT** | LYPLAL1 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.020 |
| 643733 | NR_034078,NR_034 | **CASP4LP** | caspase 4 like, pseudog | transcribed_pseu | 12 | 10 | 13 | 11 | 0.877 |
| 643739 | gene-GAPDHP31 | **GAPDHP31** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643744 | gene-HMGN2P4 | **HMGN2P4** | high mobility group nucl | pseudogene | 30 | 30 | 31 | 31 | 0.979 |
| 643749 | NR_034108,NR_034 | **TRAF3IP2-AS1** | TRAF3IP2 antisense RN | antisense_RNA | 8 | 8 | 9 | 9 | 1.062 |
| 643751 | gene-CDC42P6 | **CDC42P6** | cell division cycle 42 pse | pseudogene | 0 | 1 | 1 | 2 | 1.230 |
| 643752 | gene-RAP1BL | **RAP1BL** | RAP1B, member of RAS | pseudogene | 47 | 42 | 48 | 43 | 0.894 |
| 643766 | gene-PSMC1P6 | **PSMC1P6** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643770 | NR_038383 | **LINC02453** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.152 |
| 643773 | gene-PNPLA10P | **PNPLA10P** | patatin like phospholipas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643779 | gene-RPLP0P5 | **RPLP0P5** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643783 | NR_125363 | **USP46-DT** | USP46 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 643784 | gene-NAIPP3 | **NAIPP3** | NAIP pseudogene 3 | pseudogene | 0 | 1 | 1 | 2 | 1.169 |
| 643790 | gene-HMGN1P38 | **HMGN1P38** | high mobility group nucl | pseudogene | 1 | 1 | 2 | 2 | 1.143 |
| 643802 | NM_001347693,XM | **LOC643802** | u3 small nucleolar ribon | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643803 | NM_001085455 | **KRTAP24-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643812 | NM_001077711 | **KRTAP27-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643827 | NR_111893 | **CNTNAP3P2** | CNTNAP3 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643831 | gene-PDCL3P2 | **PDCL3P2** | PDCL3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.204 |
| 643834 | NM_001079807 | **PGA3** | pepsinogen A3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643836 | NM_001172638,NM | **ZFP62** | ZFP62 zinc finger protein | protein_coding | 20 | 19 | 21 | 20 | 0.990 |
| 643837 | NR_047519,NR_047 | **LINC01128** | long intergenic non-prote | lncRNA | 10 | 11 | 11 | 12 | 1.113 |
| 643847 | NM_001079808 | **PGA4** | pepsinogen A4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643851 | gene-RPL31P32 | **RPL31P32** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643853 | NM_001039770,NM | **TMPPE** | transmembrane protein v | protein_coding | 3 | 2 | 4 | 3 | 0.834 |
| 643854 | NM_001145659 | **CTAGE9** | CTAGE family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643855 | gene-LOC643855 | **LOC643855** | G1 to S phase transition | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643859 | gene-FEM1AP3 | **FEM1AP3** | fem-1 homolog A pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643862 | NM_001382504,NM | **SPDYE10P** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643863 | gene-RPL17P34 | **RPL17P34** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643866 | NM_001039771 | **CBLN3** | cerebellin 3 precursor | protein_coding | 0 | 1 | 1 | 2 | 1.138 |
| 643870 | gene-TPT1P6 | **TPT1P6** | tumor protein, translation | pseudogene | 0 | 0 | 1 | 1 | 0.978 |
| 643872 | gene-HMGN2P6 | **HMGN2P6** | high mobility group nucl | pseudogene | 64 | 58 | 65 | 59 | 0.917 |
| 643873 | gene-EIF4BP7 | **EIF4BP7** | eukaryotic translation init | pseudogene | 2 | 2 | 3 | 3 | 1.028 |
| 643875 | gene-CNN3P1 | **CNN3P1** | calponin 3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643880 | gene-FKBP4P8 | **FKBP4P8** | FKBP prolyl isomerase 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643884 | gene-SOCS5P5 | **SOCS5P5** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643896 | gene-ARPP19P2 | **ARPP19P2** | ARPP19 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643898 | gene-ARL2BPP2 | **ARL2BPP2** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643904 | NM_001146684,XM | **RNF222** | ring finger protein 222 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643906 | gene-RPL7P27 | **RPL7P27** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643909 | NM_001382554 | **SPDYE9** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643911 | NM_001308963,NR | **CRNDE** | colorectal neoplasia diffe | protein_coding | 2 | 2 | 3 | 3 | 0.863 |
| 643915 | gene-MORF4L2P1 | **MORF4L2P1** | mortality factor 4 like 2 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643916 | gene-RAB1AP2 | **RAB1AP2** | RAB1A pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643932 | gene-RPS3AP20 | **RPS3AP20** | RPS3A pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 0.943 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 643941 | gene-PHKG1P1 | **PHKG1P1** | phosphorylase kinase ca | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643949 | gene-RPLP2P3 | **RPLP2P3** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 643954 | gene-RPSAP43 | **RPSAP43** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643955 | NR_003952 | **ZNF733P** | zinc finger protein 733, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 643960 | gene-RPS2P18 | **RPS2P18** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643965 | NM_001146685 | **TMEM88B** | transmembrane protein 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643971 | gene-RPL7P29 | **RPL7P29** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643974 | gene-RPL6P13 | **RPL6P13** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643976 | gene-FOXN3P1 | **FOXN3P1** | forkhead box N3 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643977 | NR_104643 | **FLJ32255** | uncharacterized LOC643 | lncRNA | 12 | 10 | 13 | 11 | 0.837 |
| 643981 | gene-RPS3AP36 | **RPS3AP36** | RPS3A pseudogene 36 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 643988 | NM_001242659 | **FNDC10** | fibronectin type III domai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 643992 | gene-RPS2P26 | **RPS2P26** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643996 | gene-VDAC2P2 | **VDAC2P2** | VDAC2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 643997 | gene-PPIAP66 | **PPIAP66** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644000 | gene-ARAFP2 | **ARAFP2** | ARAF pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644013 | gene-RPS6P3 | **RPS6P3** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644016 | gene-HSPD1P10 | **HSPD1P10** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644017 | gene-ZNF734P | **ZNF734P** | zinc finger protein 734, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644019 | NM_001085457,XM_ | **CBWD6** | COBW domain containin | protein_coding | 34 | 36 | 35 | 37 | 1.070 |
| 644022 | gene-RPL22P19 | **RPL22P19** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 0.721 |
| 644029 | gene-RPL7AP62 | **RPL7AP62** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 0.935 |
| 644030 | gene-KRT18P58 | **KRT18P58** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644032 | gene-PHKG1P2 | **PHKG1P2** | phosphorylase kinase ca | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644035 | gene-NONOP1 | **NONOP1** | non-POU domain contair | pseudogene | 2 | 2 | 3 | 3 | 1.003 |
| 644037 | gene-HNRNPA1P12 | **HNRNPA1P12** | heterogeneous nuclear r | pseudogene | 12 | 14 | 13 | 15 | 1.144 |
| 644041 | NM_001174123 | **C18orf63** | chromosome 18 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644042 | gene-SLC25A5P6 | **SLC25A5P6** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644050 | NR_104176 | **LINC01529** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644051 | gene-LOC644051 | **LOC644051** | isocitrate dehydrogenase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644054 | NM_001137548 | **FAM25C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644060 | gene-LOC644060 | **LOC644060** | insulin like growth factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644063 | gene-HNRNPKP4 | **HNRNPKP4** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.322 |
| 644068 | NR_077246 | **RPS14P3** | ribosomal protein S14 ps | transcribed_pseu | 2 | 1 | 3 | 2 | 0.868 |
| 644070 | NM_001310219 | **GSG1L2** | GSG1 like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644076 | NR_003039 | **GLYCAM1** | glycosylation dependent | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644079 | gene-BCRP1 | **BCRP1** | BCR pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 644082 | gene-RPL18AP8 | **RPL18AP8** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644090 | NM_001354885 | **LOC644090** | uncharacterized LOC644 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644093 | NR_120602 | **MSH2-OT1** | MSH2 overlapping transc | lncRNA | 0 | 0 | 1 | 1 | 1.057 |
| 644094 | gene-PSMC1P12 | **PSMC1P12** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644096 | NM_001042631 | **SDHAF1** | succinate dehydrogenas | protein_coding | 29 | 28 | 30 | 29 | 0.952 |
| 644100 | NM_001195581,XM_ | **ARL14EPL** | ADP ribosylation factor li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644101 | gene-CBX3P9 | **CBX3P9** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.189 |
| 644103 | gene-RPL29P18 | **RPL29P18** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644110 | gene-LOC644110 | **LOC644110** | hyperpolarization activat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644119 | gene-RPS14P9 | **RPS14P9** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644128 | NR_003572 | **RPL23AP53** | ribosomal protein L23a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.019 |
| 644129 | gene-HMGB1P15 | **HMGB1P15** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644131 | gene-CCT8P1 | **CCT8P1** | chaperonin containing TC | pseudogene | 0 | 0 | 1 | 1 | 1.046 |
| 644135 | NR_149042 | **LOC644135** | uncharacterized LOC644 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644139 | NM_001101387 | **PIRT** | phosphoinositide interact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644145 | NM_001351574,NM_ | **EXOC1L** | exocyst complex compor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644146 | gene-RPS14P8 | **RPS14P8** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644150 | NM_001080529,XM_ | **WIPF3** | WAS/WASL interacting p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644153 | gene-DNM1P31 | **DNM1P31** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644157 | gene-DND1P1 | **DND1P1** | DND microRNA-mediatec | pseudogene | 3 | 3 | 4 | 4 | 1.096 |
| 644158 | gene-LRRC2P1 | **LRRC2P1** | LRRC2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644159 | gene-SLC25A1P3 | **SLC25A1P3** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644160 | gene-ACTG1P19 | **ACTG1P19** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644165 | NR_024494 | **BCRP3** | BCR pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.885 |
| 644166 | gene-RPS26P20 | **RPS26P20** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644168 | NM_001276451,XM_ | **DRGX** | dorsal root ganglia home | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644169 | gene-LOC644169 | **LOC644169** | voltage dependent anion | pseudogene | 0 | 1 | 1 | 2 | 1.295 |
| 644172 | NR_026901 | **MAPK8IP1P2** | mitogen-activated protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644186 | NM_001123225,XM_ | **SYCE3** | synaptonemal complex c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644189 | NR_033748 | **LOC644189** | acyl-CoA thioesterase 4 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644191 | gene-RPS26P8 | **RPS26P8** | ribosomal protein S26 ps | pseudogene | 13 | 15 | 14 | 16 | 1.167 |
| 644192 | NR_102743,NR_102 | **NR2F2-AS1** | NR2F2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644198 | gene-RPLP2P2 | **RPLP2P2** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644202 | gene-RPL12P27 | **RPL12P27** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644214 | gene-PHBP11 | **PHBP11** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644215 | NR_157582 | **LOC644215** | uncharacterized LOC644 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |
| 644218 | gene-TRPC6P,gene | **TRPC6P** | transient receptor potent | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644220 | gene-ACTBP11 | **ACTBP11** | ACTB pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 0.970 |
| 644223 | gene-RPL9P4 | **RPL9P4** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644233 | gene-AURKBP1 | **AURKBP1** | aurora kinase B pseudoc | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 644236 | gene-RPL7AP43 | **RPL7AP43** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.138 |
| 644237 | gene-GAPDHP33 | **GAPDHP33** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644242 | NR_036540 | **LINC00622** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644246 | NR_034172 | **KANSL1-AS1** | KANSL1 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.070 |
| 644248 | NR_045481 | **SNCA-AS1** | SNCA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644253 | gene-MAPK8IP1P1 | **MAPK8IP1P1** | mitogen-activated protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644256 | gene-DND1P2 | **DND1P2** | DND microRNA-mediatec | pseudogene | 0 | 0 | 1 | 1 | 1.031 |
| 644261 | gene-LOC644261 | **LOC644261** | solute carrier family 25 m | pseudogene | 0 | 1 | 1 | 2 | 1.446 |
| 644265 | gene-CAPZBP1 | **CAPZBP1** | CAPZB pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644269 | gene-LOC644269 | **LOC644269** | G protein pathway suppr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644277 | XR_001748380,XR_ | **LOC644277** | uncharacterized LOC644 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644285 | NR_130929 | **LOC644285** | uncharacterized LOC644 | lncRNA | 0 | 0 | 1 | 1 | 0.917 |
| 644295 | gene-KIAA1143P1 | **KIAA1143P1** | KIAA1143 pseudogene 1 | pseudogene | 4 | 4 | 5 | 5 | 1.001 |
| 644297 | XR_002958109 | **FAM215B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 644303 | gene-LOC644303 | **LOC644303** | ATP-dependent RNA hel | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 644309 | gene-RPS20P19 | **RPS20P19** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644314 | NR_003669,NR_104 | **MT1IP** | metallothionein 1I, pseuc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644315 | gene-RPS7P11 | **RPS7P11** | ribosomal protein S7 pse | pseudogene | 4 | 4 | 5 | 5 | 1.064 |
| 644316 | NR_033856 | **FLJ43315** | asparagine synthetase p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644330 | gene-TPM3P5 | **TPM3P5** | tropomyosin 3 pseudoge | pseudogene | 1 | 1 | 2 | 2 | 1.232 |
| 644333 | gene-ATP5PBP3 | **ATP5PBP3** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644338 | gene-RPL37AP8 | **RPL37AP8** | ribosomal protein L37a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644353 | NM_001143978,NR_ | **ZCCHC18** | zinc finger CCHC-type co | protein_coding | 5 | 3 | 6 | 4 | 0.716 |
| 644383 | gene-LOC644383 | **LOC644383** | heat shock transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644384 | gene-RPL23AP71 | **RPL23AP71** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644387 | gene-LOC644387 | **LOC644387** | myelin protein zero like 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644388 | gene-RPS2P47 | **RPS2P47** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 644390 | gene-HNRNPLP2 | **HNRNPLP2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.043 |
| 644397 | gene-LRRC37A17P | **LRRC37A17P** | leucine rich repeat conta | pseudogene | 3 | 2 | 4 | 3 | 0.733 |
| 644403 | gene-LARP1BP3 | **LARP1BP3** | LARP1B pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644414 | NM_001040448 | **DEFB131A** | defensin beta 131A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644425 | gene-RARRES2P2 | **RARRES2P2** | retinoic acid receptor res | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644429 | gene-HMGB3P15 | **HMGB3P15** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644435 | gene-AGGF1P2 | **AGGF1P2** | angiogenic factor with G- | pseudogene | 3 | 2 | 4 | 3 | 0.716 |
| 644442 | gene-HMGB3P11 | **HMGB3P11** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644444 | NR_028357,NR_028 | **TMEM30CP** | transmembrane protein 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644451 | gene-SHQ1P1 | **SHQ1P1** | SHQ1, H/ACA ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 644456 | gene-LOC644456 | **LOC644456** | IK cytokine, down-regula | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 644459 | gene-BEND3P1 | **BEND3P1** | BEN domain containing 3 | pseudogene | 0 | 0 | 1 | 1 | 1.036 |
| 644462 | gene-LOC644462 | **LOC644462** | STE20 related adaptor b | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 644464 | gene-RPSAP61 | **RPSAP61** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 644482 | gene-NDUFA3P3 | **NDUFA3P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644491 | gene-ICE2P1 | **ICE2P1** | interactor of little elongat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644495 | gene-HSP90AB7P | **HSP90AB7P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644496 | gene-CTSLP4 | **CTSLP4** | cathepsin L pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644498 | gene-HMGN2P7 | **HMGN2P7** | high mobility group nucl | pseudogene | 2 | 3 | 3 | 4 | 1.063 |
| 644499 | gene-RPL39P21 | **RPL39P21** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644502 | gene-HMGB3P18 | **HMGB3P18** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644509 | gene-RBM22P6 | **RBM22P6** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 644511 | NR_026715 | **RPL13AP6** | ribosomal protein L13a p | transcribed_pseu | 0 | 0 | 1 | 1 | 0.937 |
| 644517 | gene-FAM86MP | **FAM86MP** | family with sequence sir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644522 | gene-RPL31P44 | **RPL31P44** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 644524 | NM_033176 | **NKX2-4** | NK2 homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644534 | gene-HMGN1P11 | **HMGN1P11** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644538 | NM_001163438 | **SMIM10** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644540 | gene-ELOCP3 | **ELOCP3** | elongin C pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644548 | gene-EXOC5P1 | **EXOC5P1** | exocyst complex compor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644554 | NR_040013 | **LOC644554** | uncharacterized LOC644 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644563 | gene-LOC644563 | **LOC644563** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.259 |
| 644573 | gene-SPCS2P2 | **SPCS2P2** | signal peptidase comple | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644578 | gene-LARP1BP1 | **LARP1BP1** | LARP1B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644584 | gene-LOC644584 | **LOC644584** | EWS RNA binding protei | pseudogene | 0 | 0 | 1 | 1 | 0.888 |
| 644588 | gene-DNAJA1P3 | **DNAJA1P3** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 644589 | gene-DNAJC19P9 | **DNAJC19P9** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644591 | NM_001123068 | **PPIAL4G** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 644596 | NM_001348255 | **SMIM10L2B** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644600 | gene-GEMIN8P2 | **GEMIN8P2** | gem nuclear organelle a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644601 | gene-BIN2P2 | **BIN2P2** | bridging integrator 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644604 | gene-EEF1A1P12 | **EEF1A1P12** | eukaryotic translation elc | pseudogene | 1 | 0 | 2 | 1 | 0.873 |
| 644616 | gene-ILF2P2 | **ILF2P2** | interleukin enhancer bin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644619 | NR_027392 | **INTS4P2** | integrator complex subu | transcribed_pseu | 1 | 0 | 2 | 1 | 0.857 |
| 644623 | XR_001749878 | **TPTE2P2** | transmembrane phosph | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644625 | gene-FUNDC2P3 | **FUNDC2P3** | FUN14 domain containin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644627 | gene-RPL21P107 | **RPL21P107** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644632 | gene-BMS1P11 | **BMS1P11** | BMS1 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 644634 | NR_145442 | **LOC644634** | uncharacterized LOC644 | lncRNA | 2 | 2 | 3 | 3 | 0.954 |
| 644637 | gene-NF1P6 | **NF1P6** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644649 | NR_028471 | **APOOP5** | apolipoprotein O pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644651 | gene-HMGB1P25 | **HMGB1P25** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644656 | NR_036539 | **LOC644656** | uncharacterized LOC644 | lncRNA | 5 | 5 | 6 | 6 | 0.993 |
| 644660 | NR_033886 | **RAD21-AS1** | RAD21 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 644661 | gene-LOC644661 | **LOC644661** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644667 | gene-LOC644667 | **LOC644667** | golgin A7 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644669 | NR_027417 | **LOC644669** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644672 | NM_001101389 | **CLDN25** | claudin 25 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644681 | gene-LOC644681 | **LOC644681** | SSX family member 2 int | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644684 | gene-BMS1P12 | **BMS1P12** | BMS1 pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 0.885 |
| 644694 | NR_033865 | **CDRT15P2** | CDRT15 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644714 | NR_033947 | **LIMD1-AS1** | LIMD1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.011 |
| 644716 | gene-BMS1P13 | **BMS1P13** | BMS1 pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 644717 | NR_147090 | **SAGE2P** | sarcoma antigen 2, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644721 | gene-LOC644721 | **LOC644721** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 644739 | gene-WASF4P | **WASF4P** | WASP family member 4, | pseudogene | 0 | 0 | 1 | 1 | 1.065 |
| 644743 | gene-KRT8P47 | **KRT8P47** | keratin 8 pseudogene 47 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644745 | gene-HSPD1P4 | **HSPD1P4** | heat shock protein family | pseudogene | 1 | 1 | 2 | 2 | 1.030 |
| 644754 | gene-BOLA3P3 | **BOLA3P3** | bolA family member 3 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644758 | gene-PABPC1P13 | **PABPC1P13** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644759 | NR_033737 | **TMPRSS11GP** | transmembrane serine p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644761 | gene-PIGHP1 | **PIGHP1** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644762 | NR_110534 | **MFFP2** | MFF pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644768 | gene-SLC9B1P4 | **SLC9B1P4** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644773 | gene-ACTR3BP6 | **ACTR3BP6** | ACTR3B pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644776 | gene-RAD52P1 | **RAD52P1** | RAD52 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644790 | gene-RPS15AP11 | **RPS15AP11** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644794 | NR_136637 | **LINC02604** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.049 |
| 644809 | NR_168270 | **C15orf56** | chromosome 15 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644815 | NM_001039999,XM_ | **FAM83G** | family with sequence sir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644820 | gene-EEF1B2P3 | **EEF1B2P3** | eukaryotic translation elc | pseudogene | 2 | 2 | 3 | 3 | 1.063 |
| 644834 | gene-RPL36AP36 | **RPL36AP36** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644838 | NR_038844 | **LINC01829** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644844 | NM_001145643 | **PHGR1** | proline, histidine and gly | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644850 | gene-PDCL3P5 | **PDCL3P5** | PDCL3 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.066 |
| 644861 | NR_103466 | **NBPF13P** | NBPF member 13, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644871 | gene-TRAF6P1 | **TRAF6P1** | TNF receptor associated | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644873 | NR_015360,NR_15 | **LINC01184** | long intergenic non-prote | lncRNA | 2 | 3 | 3 | 4 | 1.447 |
| 644877 | gene-CACYBPP2 | **CACYBPP2** | calcyclin binding protein | pseudogene | 0 | 0 | 1 | 1 | 0.878 |
| 644881 | gene-RARRES2P4 | **RARRES2P4** | retinoic acid receptor res | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644890 | NM_001080836,NR_ | **MEIG1** | meiosis/spermiogenesis | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644896 | gene-RPL7P7 | **RPL7P7** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 644899 | gene-TERF2IPP1 | **TERF2IPP1** | TERF2 interacting protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644903 | NR_135290 | **GCC2-AS1** | GCC2 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.070 |
| 644907 | gene-RPL32P18 | **RPL32P18** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 0.826 |
| 644909 | gene-LOC644909 | **LOC644909** | ligand of numb-protein X | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644911 | gene-RPL10P5 | **RPL10P5** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644914 | gene-H3P16 | **H3P16** | H3 histone pseudogene | pseudogene | 18 | 17 | 19 | 18 | 0.971 |
| 644915 | gene-METTL15P2 | **METTL15P2** | methyltransferase like 15 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644919 | NR_109757,NR_10 | **LINC02315** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644928 | gene-RPS26P15 | **RPS26P15** | ribosomal protein S26 ps | pseudogene | 7 | 7 | 8 | 8 | 0.929 |
| 644934 | gene-RPS26P50 | **RPS26P50** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.062 |
| 644935 | gene-ELF2P4 | **ELF2P4** | ELF2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644936 | NR_004845 | **LOC644936** | actin beta pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.033 |
| 644943 | NM_001080521 | **RASSF10** | Ras association domain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644945 | NR_029393 | **KRT16P3** | keratin 16 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644961 | NR_033926 | **ACTG1P20** | actin gamma 1 pseudoge | transcribed_pseu | 1 | 1 | 2 | 2 | 0.910 |
| 644962 | NR_077215 | **TNRC18P1** | trinucleotide repeat cont | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 644972 | gene-RPS3AP26 | **RPS3AP26** | RPS3A pseudogene 26 | pseudogene | 11 | 11 | 12 | 12 | 1.047 |
| 644974 | NM_001136152,XM_ | **ALG1L2** | ALG1 chitobiosyldiphosp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644988 | gene-ABHD17AP6 | **ABHD17AP6** | ABHD17A pseudogene 6 | pseudogene | 1 | 2 | 2 | 3 | 1.313 |
| 644990 | NR_046244 | **THRB-AS1** | THRB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 644994 | NM_001289970,XM_ | **SMIM23** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 644996 | gene-RPL32P22 | **RPL32P22** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 644997 | NR_027045 | **PIK3CD-AS1** | PIK3CD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 644998 | gene-KRT8P19 | **KRT8P19** | keratin 8 pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645000 | gene-RPS3P6 | **RPS3P6** | ribosomal protein S3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 645001 | gene-HNRNPA1P52 | **HNRNPA1P52** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.178 |
| 645015 | gene-ALG1L8P | **ALG1L8P** | ALG1 like 8, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645018 | gene-RPS2P20 | **RPS2P20** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.158 |
| 645024 | gene-GAPDHP59 | **GAPDHP59** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645027 | NM_001145127,XM_ | **EVPLL** | envoplakin like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645030 | NR_104180 | **NFIA-AS1** | NFIA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645051 | NM_001098412 | **GAGE13** | G antigen 13 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645054 | gene-RPL6P4 | **RPL6P4** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645073 | NM_001098409,NM_ | **GAGE12G** | G antigen 12G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645078 | NR_160939 | **COL25A1-DT** | COL25A1 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645084 | gene-DBF4P1 | **DBF4P1** | DBF4 zinc finger pseudo | pseudogene | 0 | 1 | 1 | 2 | 1.203 |
| 645086 | gene-LOC645086 | **LOC645086** | chromosome 11 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.256 |
| 645094 | gene-MYL12BP1 | **MYL12BP1** | myosin light chain 12B p | pseudogene | 2 | 2 | 3 | 3 | 1.034 |
| 645104 | NM_001079827 | **CLRN2** | clarin 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645108 | gene-NACAP5 | **NACAP5** | NACA pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645120 | gene-AIFM1P1 | **AIFM1P1** | AIFM1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645121 | NM_001039780,NM_ | **CCNI2** | cyclin I family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645126 | gene-PFN1P6 | **PFN1P6** | profilin 1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645129 | gene-ZBTB45P1 | **ZBTB45P1** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645135 | gene-LOC645135 | **LOC645135** | zinc finger protein 532 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645136 | gene-MYCLP2 | **MYCLP2** | MYCL pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645139 | gene-LOC645139 | **LOC645139** | poly(A) binding protein ir | pseudogene | 5 | 5 | 6 | 6 | 1.019 |
| 645142 | NM_001164261 | **PPIAL4D** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645157 | gene-RPL21P61 | **RPL21P61** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645158 | NR_033754 | **CBX3P2** | chromobox 3 pseudogen | transcribed_pseu | 1 | 1 | 2 | 2 | 0.895 |
| 645160 | gene-RPL5P30 | **RPL5P30** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.098 |
| 645161 | gene-RPL12P8 | **RPL12P8** | ribosomal protein L12 ps | pseudogene | 1 | 1 | 2 | 2 | 1.149 |
| 645163 | gene-LOC645163 | **LOC645163** | phosphatidylinositol 4-kir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645166 | NR_027354,NR_027 | **LSP1P5** | LSP1 pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645173 | gene-RPS2P48 | **RPS2P48** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 645174 | gene-RPL21P46 | **RPL21P46** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.942 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 645175 | gene-MEMO1P2 | **MEMO1P2** | mediator of cell motility 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645177 | NM_001321724 | **LOC645177** | uncharacterized LOC645 | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 645180 | gene-FAM214BP1 | **FAM214BP1** | FAM214B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645181 | gene-LOC645181 | **LOC645181** | PDGFA associated prote | pseudogene | 0 | 0 | 1 | 1 | 1.113 |
| 645188 | NM_001318917 | **LOC645188** | uncharacterized LOC645 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645191 | NM_001101391 | **LINGO3** | leucine rich repeat and I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645201 | gene-HMGB1P26 | **HMGB1P26** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645202 | NM_001365372,XM | **LOC645202** | golgin A6 family-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645203 | gene-TMEM14DP | **TMEM14DP** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 0.932 |
| 645204 | gene-HNRNPMP1 | **HNRNPMP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645206 | NR_038840 | **LINC00693** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.121 |
| 645207 | gene-EIF4E2P2 | **EIF4E2P2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645212 | NR_034170,NR_03 | **EIF3J-DT** | EIF3J divergent transcrip | lncRNA | 13 | 13 | 14 | 14 | 1.000 |
| 645224 | gene-RPL29P17 | **RPL29P17** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645233 | gene-TDGP1 | **TDGP1** | thymine-DNA glycosylas | pseudogene | 1 | 1 | 2 | 2 | 1.041 |
| 645249 | NR_038835 | **MNX1-AS1** | MNX1 antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 1.341 |
| 645251 | gene-CBX1P1 | **CBX1P1** | chromobox 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 0.921 |
| 645256 | gene-GAPDHP66 | **GAPDHP66** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645257 | gene-RPL7AP37 | **RPL7AP37** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645261 | XR_948538 | **LOC645261** | PP565 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645264 | gene-OSTCP4 | **OSTCP4** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645266 | gene-LOC645266 | **LOC645266** | pre-mRNA processing fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645269 | gene-TMEM256P1 | **TMEM256P1** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645280 | gene-SMPD4P1 | **SMPD4P1** | sphingomyelin phosphoc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645292 | gene-HMGB1P6 | **HMGB1P6** | high mobility group box 1 | pseudogene | 148 | 146 | 149 | 147 | 0.990 |
| 645296 | gene-RPL17P39 | **RPL17P39** | ribosomal protein L17 ps | pseudogene | 7 | 6 | 8 | 7 | 0.898 |
| 645299 | gene-RPS10P24 | **RPS10P24** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645311 | gene-EEF1GP7 | **EEF1GP7** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645312 | gene-GLTPP1 | **GLTPP1** | glycolipid transfer proteir | pseudogene | 0 | 1 | 1 | 2 | 1.118 |
| 645313 | gene-SCDP1 | **SCDP1** | stearoyl-CoA desaturase | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 645314 | gene-DNAJC17P1 | **DNAJC17P1** | DNAJC17 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645317 | gene-CHCHD2P6 | **CHCHD2P6** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 645318 | gene-PHB2P1 | **PHB2P1** | prohibitin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645319 | gene-MRGPRX13P | **MRGPRX13P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645321 | XR_110161,XR_245 | **LINC01896** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645323 | NR_015436,NR_02 | **LINC00461** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645326 | gene-RPSAP11 | **RPSAP11** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.954 |
| 645332 | NR_024249 | **FAM86C2P** | family with sequence sim | transcribed_pseu | 4 | 6 | 5 | 7 | 1.380 |
| 645339 | NR_033826 | **SNRPD2P2** | small nuclear ribonucleo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645345 | gene-CHCHD2P9 | **CHCHD2P9** | coiled-coil-helix-coiled-cc | pseudogene | 3 | 3 | 4 | 4 | 0.978 |
| 645354 | NR_111945 | **PRAMEF36P** | PRAME family member 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645355 | NR_038839 | **MIR3976HG** | MIR3976 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645359 | NM_001306072 | **PRAMEF26** | PRAME family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645360 | gene-HMGB3P5 | **HMGB3P5** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.115 |
| 645367 | NR_003503 | **GGT8P** | gamma-glutamyltransfer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645368 | gene-EIF3KP3 | **EIF3KP3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645369 | NM_001080209,XM | **TMEM200C** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645373 | gene-RPL21P76 | **RPL21P76** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645381 | gene-TLE1P1 | **TLE1P1** | TLE family member 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645382 | NM_001291381 | **PRAMEF33** | PRAME family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645387 | gene-RPL6P27 | **RPL6P27** | ribosomal protein L6 pse | pseudogene | 45 | 52 | 46 | 53 | 1.145 |
| 645398 | gene-NIFKP2 | **NIFKP2** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645402 | NM_001256874 | **USP17L4** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645412 | gene-RPS16P9 | **RPS16P9** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645414 | NM_001099790 | **PRAMEF19** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645415 | gene-MRGPRX11P | **MRGPRX11P** | MAS related GPR family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645422 | gene-RPL10P12 | **RPL10P12** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645423 | gene-SLC25A51P2 | **SLC25A51P2** | SLC25A51 pseudogene : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645425 | NM_001099852 | **PRAMEF20** | PRAME family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645426 | NM_001207052 | **TMEM191C** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.128 |
| 645431 | NR_024334 | **FUT8-AS1** | FUT8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 645432 | NM_001080523,NM | **ARRDC5** | arrestin domain containir | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 645433 | gene-LOC645433 | **LOC645433** | inositol-3-phosphate syn | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645434 | NR_033919 | **LINC01625** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645436 | gene-HNRNPA1P63 | **HNRNPA1P63** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645440 | gene-ATP5PBP6 | **ATP5PBP6** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645441 | gene-RPL17P6 | **RPL17P6** | ribosomal protein L17 ps | pseudogene | 21 | 23 | 22 | 24 | 1.056 |
| 645443 | gene-ATP5F1AP3 | **ATP5F1AP3** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645452 | gene-RPL21P68 | **RPL21P68** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645453 | gene-RLIMP3 | **RLIMP3** | ring finger protein, LIM d | pseudogene | 0 | 0 | 1 | 1 | 0.945 |
| 645455 | NR_003135 | **CEP170P1** | centrosomal protein 170 | transcribed_pseu | 1 | 0 | 2 | 1 | 0.773 |
| 645468 | gene-LOC645468 | **LOC645468** | insulin like growth factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645481 | gene-LOC645481 | **LOC645481** | zinc finger protein 248 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645482 | gene-LOC645482 | **LOC645482** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645485 | NR_135046 | **LOC645485** | uncharacterized LOC645 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645486 | gene-AHCYP7 | **AHCYP7** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645506 | gene-GYG1P3 | **GYG1P3** | glycogenin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645513 | NR_037630 | **LOC645513** | septin 7 pseudogene | transcribed_pseu | 17 | 19 | 18 | 20 | 1.122 |
| 645520 | NR_026818 | **FAM138A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645528 | NR_026793 | **FAM238A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645529 | gene-ACRP1 | **ACRP1** | ACR pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645544 | gene-LOC645544 | **LOC645544** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645545 | gene-IGBP1P2 | **IGBP1P2** | immunoglobulin (CD79A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645548 | gene-HSPD1P6 | **HSPD1P6** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 645553 | NR_135234 | **IGFL2-AS1** | IGFL2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645558 | gene-FAM90A22P | **FAM90A22P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645560 | gene-ATP5F1CP1 | **ATP5F1CP1** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.069 |
| 645571 | gene-PRADC1P1 | **PRADC1P1** | protease associated dor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645572 | gene-FAM90A23P | **FAM90A23P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645573 | gene-RPS4XP19 | **RPS4XP19** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645579 | gene-EIF4BP6 | **EIF4BP6** | eukaryotic translation init | pseudogene | 4 | 5 | 5 | 6 | 1.055 |
| 645591 | NR_034141,NR_03 | **LHFPL3-AS1** | LHFPL3 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645598 | gene-WIZP1 | **WIZP1** | WIZ pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645619 | gene-AK4P3 | **AK4P3** | adenylate kinase 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 645630 | gene-RPS13P8 | **RPS13P8** | ribosomal protein S13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645638 | NR_030732 | **WFDC21P** | WAP four-disulfide core | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645641 | gene-MESTP3 | **MESTP3** | mesoderm specific transi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645644 | NR_024492 | **FLJ42627** | uncharacterized LOC645 | lncRNA | 2 | 2 | 3 | 3 | 1.014 |
| 645651 | gene-FAM90A14P | **FAM90A14P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645652 | gene-MT1XP1 | **MT1XP1** | metallothionein 1X pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645654 | gene-RPL31P48 | **RPL31P48** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645656 | gene-RPSAP56 | **RPSAP56** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.124 |
| 645668 | gene-TUFMP1 | **TUFMP1** | Tu translation elongation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645676 | NR_147963,NR_147 | **ASH1L-AS1** | ASH1L antisense RNA 1 | lncRNA | 8 | 9 | 9 | 10 | 1.117 |
| 645680 | gene-KPNA2P2 | **KPNA2P2** | karyopherin subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645682 | NR_034180 | **POU5F1P4** | POU class 5 homeobox : | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645683 | NR_004844 | **RPL13AP3** | ribosomal protein L13a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.035 |
| 645686 | gene-GTF2IP3 | **GTF2IP3** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645687 | NR_026796,NR_02 | **LINC00520** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645688 | gene-RPL12P38 | **RPL12P38** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.932 |
| 645691 | gene-HNRNPA1P35 | **HNRNPA1P35** | heterogeneous nuclear r | pseudogene | 21 | 25 | 22 | 26 | 1.169 |
| 645693 | gene-EEF1A1P22 | **EEF1A1P22** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 645700 | NR_034163 | **ZNF890P** | zinc finger protein 890, p | transcribed_pseu | 1 | 1 | 2 | 2 | 1.017 |
| 645713 | gene-RPS10P23 | **RPS10P23** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645715 | gene-EEF1A1P24 | **EEF1A1P24** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 645740 | gene-NOS2P1 | **NOS2P1** | nitric oxide synthase 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645744 | gene-TAF5LP1 | **TAF5LP1** | TATA-box binding protein | pseudogene | 0 | 0 | 1 | 1 | 0.888 |
| 645745 | NM_001276687 | **MT1HL1** | metallothionein 1H like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645749 | gene-LOC645749 | **LOC645749** | zinc finger protein 131 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645752 | NR_027024 | **LOC645752** | golgin A6 family member | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645754 | gene-LGALS9DP | **LGALS9DP** | galectin 9D, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.196 |
| 645763 | gene-LOC645763 | **LOC645763** | intersectin 1 (SH3 domai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645771 | gene-PARP4P2 | **PARP4P2** | poly(ADP-ribose) polyme | pseudogene | 0 | 0 | 1 | 1 | 0.970 |
| 645784 | NR_015424 | **ANKRD36BP2** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645798 | gene-RPL3P3 | **RPL3P3** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645805 | gene-DAZAP2P1 | **DAZAP2P1** | DAZ associated protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 645807 | gene-RPL5P10 | **RPL5P10** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 645808 | gene-HSPD1P2 | **HSPD1P2** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 645811 | NM_001143980 | **CCDC154** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 0.894 |
| 645832 | NM_001080837 | **SEBOX** | SEBOX homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645834 | gene-KRT8P15 | **KRT8P15** | keratin 8 pseudogene 15 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645836 | NM_001256871 | **USP17L3** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645841 | gene-TMEM248P1 | **TMEM248P1** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645843 | NR_132656 | **TMEM14EP** | transmembrane protein 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645846 | gene-RPL7AP58 | **RPL7AP58** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645852 | gene-LOC645852 | **LOC645852** | splicing factor 3a subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645853 | gene-LOC645853 | **LOC645853** | NAD(P)HX epimerase ps | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 645857 | gene-RPS10P17 | **RPS10P17** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 645859 | gene-CCDC58P1 | **CCDC58P1** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645864 | NM_001277307,XM_ | **MAGEB17** | MAGE family member B1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645877 | gene-LOC645877 | **LOC645877** | acyl-CoA binding domair | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645879 | gene-FAM90A12P | **FAM90A12P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645884 | NR_036695 | **RPS7P5** | ribosomal protein S7 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645899 | gene-RPS28P4 | **RPS28P4** | ribosomal protein S28 ps | pseudogene | 2 | 3 | 3 | 4 | 1.168 |
| 645900 | gene-LAPTM4BP1 | **LAPTM4BP1** | lysosomal protein transm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645916 | gene-RPS11P2 | **RPS11P2** | ribosomal protein S11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645918 | gene-RPS13P7 | **RPS13P7** | ribosomal protein S13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645922 | gene-S100A7L2 | **S100A7L2** | S100 calcium binding pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645927 | gene-MCFD2P1 | **MCFD2P1** | multiple coagulation fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645930 | gene-HMGN2P31 | **HMGN2P31** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645931 | gene-FEN1P1 | **FEN1P1** | flap structure-specific en | pseudogene | 0 | 0 | 1 | 1 | 0.951 |
| 645938 | gene-CAPZA1P3 | **CAPZA1P3** | CAPZA1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645939 | gene-THAP12P8 | **THAP12P8** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645940 | gene-HNRNPA1P32 | **HNRNPA1P32** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645949 | NR_038837 | **LINC01822** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 645950 | gene-HNRNPA1P1 | **HNRNPA1P1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645954 | NR_036438 | **SVIL2P** | supervillin family membe | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645957 | gene-RPS3P7 | **RPS3P7** | ribosomal protein S3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645958 | NR_077247 | **RPS18P9** | ribosomal protein S18 ps | transcribed_pseu | 1 | 2 | 2 | 3 | 1.157 |
| 645960 | gene-RPL10P19 | **RPL10P19** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645961 | NM_001166137,NM | **SPATA31C2** | SPATA31 subfamily C m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645965 | gene-LOC645965 | **LOC645965** | adipose differentiation-re | pseudogene | 0 | 0 | 1 | 1 | 1.050 |
| 645967 | NR_134652 | **LOC645967** | uncharacterized LOC645 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 645968 | gene-RPS3AP25 | **RPS3AP25** | RPS3A pseudogene 25 | pseudogene | 1 | 0 | 2 | 1 | 0.927 |
| 645969 | gene-SELENOTP1 | **SELENOTP1** | selenoprotein T pseudog | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 645974 | NM_001042506 | **PABPC1L2B** | poly(A) binding protein c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 645978 | gene-ACER2P1 | **ACER2P1** | ACER2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645979 | gene-RPS26P31 | **RPS26P31** | ribosomal protein S26 ps | pseudogene | 1 | 1 | 2 | 2 | 1.254 |
| 645980 | gene-CFL1P4 | **CFL1P4** | cofilin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645993 | gene-RPL31P57 | **RPL31P57** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 645996 | NR_027291 | **NAP1L6P** | nucleosome assembly pr | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 645998 | gene-RPL10AP5 | **RPL10AP5** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646000 | NM_001282300 | **SLC35G4** | solute carrier family 35 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646012 | gene-LOC646012 | **LOC646012** | aurora kinase A interactir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646013 | gene-RPS17P3 | **RPS17P3** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646016 | gene-YWHAZP8 | **YWHAZP8** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646019 | NM_001164444 | **CBY3** | chibby family member 3 | protein_coding | 0 | 0 | 1 | 1 | 0.867 |
| 646023 | NR_028483,NR_028 | **ADORA2A-AS1** | ADORA2A antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646024 | NR_024045 | **RAET1K** | retinoic acid early transcr | transcribed_pseu | 4 | 5 | 5 | 6 | 1.105 |
| 646029 | NR_130930 | **LOC646029** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646030 | NR_146737 | **LOC646030** | leucine rich repeat conta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646044 | gene-LOC646044 | **LOC646044** | single stranded DNA bin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646049 | gene-HMGN2P20 | **HMGN2P20** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646050 | gene-AIDAP1 | **AIDAP1** | AIDA pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.025 |
| 646052 | gene-SLC20A1P3 | **SLC20A1P3** | solute carrier family 20 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646058 | gene-LOC646058 | **LOC646058** | histone PARylation facto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646065 | gene-PMM2P2 | **PMM2P2** | phosphomannomutase 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646074 | NR_024593 | **POM121L10P** | POM121 transmembrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646077 | gene-RPL29P23 | **RPL29P23** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646080 | gene-RAB11FIP1P1 | **RAB11FIP1P1** | RAB11 family interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646083 | gene-PA2G4P6 | **PA2G4P6** | proliferation-associated 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646085 | gene-PSMC1P7 | **PSMC1P7** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646086 | gene-WDR45BP1 | **WDR45BP1** | WD repeat domain 45B p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646090 | gene-RHPN2P1 | **RHPN2P1** | rhophilin Rho GTPase bi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646093 | gene-RPS8P7 | **RPS8P7** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646096 | NR_038836 | **CHEK2P2** | checkpoint kinase 2 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646104 | gene-RPL32P16 | **RPL32P16** | ribosomal protein L32 ps | pseudogene | 0 | 1 | 1 | 2 | 1.433 |
| 646108 | gene-RPS7P14 | **RPS7P14** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646112 | gene-LOC646112 | **LOC646112** | origin recognition comple | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646113 | NR_015358 | **LINC00643** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646114 | gene-AKAP8P1 | **AKAP8P1** | A-kinase anchoring prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646119 | gene-RPS8P4 | **RPS8P4** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646120 | gene-LOC646120 | **LOC646120** | Spi-C transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646127 | XR_002958817 | **TERF1P7** | TERF1 pseudogene 7 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.969 |
| 646140 | gene-LOC646140 | **LOC646140** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646161 | gene-RPL26P21 | **RPL26P21** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646164 | gene-DDX39AP1 | **DDX39AP1** | DEAD-box helicase 39A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646168 | NR_033843,NR_145 | **LRRC77P** | leucine rich repeat conta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646171 | gene-EIF4A2P1 | **EIF4A2P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 646174 | NM_001080524,NM | **C16orf90** | chromosome 16 open rea | protein_coding | 0 | 0 | 1 | 1 | 0.874 |
| 646175 | gene-RPL36AP48 | **RPL36AP48** | ribosomal protein L36a p | pseudogene | 1 | 1 | 2 | 2 | 1.014 |
| 646177 | gene-SPATA31E2P | **SPATA31E2P** | SPATA31 subfamily E m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646189 | gene-RPL18AP13 | **RPL18AP13** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646192 | gene-NOP56P1 | **NOP56P1** | NOP56 ribonucleoprotein | pseudogene | 4 | 3 | 5 | 4 | 0.925 |
| 646195 | gene-RPS28P7 | **RPS28P7** | ribosomal protein S28 ps | pseudogene | 836 | 823 | 837 | 824 | 0.985 |
| 646196 | gene-SMARCE1P6 | **SMARCE1P6** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 0.888 |
| 646197 | gene-LOC646197 | **LOC646197** | heat shock protein 90kDa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646201 | NR_033774 | **BASP1P1** | BASP1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646202 | gene-TLK2P1 | **TLK2P1** | tousled like kinase 2 pse | pseudogene | 1 | 1 | 2 | 2 | 0.959 |
| 646203 | gene-LOC646203 | **LOC646203** | MRT4 homolog, ribosom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646208 | gene-NUS1P2 | **NUS1P2** | NUS1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646213 | gene-SS18L2P1 | **SS18L2P1** | SS18 like 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646214 | NR_027053 | **LOC646214** | p21 (RAC1) activated kin | transcribed_pseu | 0 | 0 | 1 | 1 | 0.968 |
| 646216 | gene-LOC646216 | **LOC646216** | ribosomal protein S3A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646218 | gene-PRDX2P2 | **PRDX2P2** | peroxiredoxin 2 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646227 | gene-ARPP19P1 | **ARPP19P1** | ARPP19 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646231 | gene-AGPAT5P1 | **AGPAT5P1** | 1-acylglycerol-3-phospha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646233 | gene-RPS27P10 | **RPS27P10** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646241 | NR_134286,NR_134 | **LINC02223** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646243 | NR_024387 | **CXADRP2** | CXADR pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646255 | gene-RPL19P16 | **RPL19P16** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.112 |
| 646260 | gene-SAR1AP1 | **SAR1AP1** | secretion associated Ras | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646262 | NM_001289974 | **LACTBL1** | lactamase beta like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646268 | NR_033946 | **LINC01704** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646269 | gene-RPS4XP8 | **RPS4XP8** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646270 | gene-ELL2P1 | **ELL2P1** | elongation factor for RNA | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 646273 | gene-HSPD1P15 | **HSPD1P15** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646274 | gene-LOC646274 | **LOC646274** | stathmin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646278 | NR_037599 | **PDCD6IPP2** | PDCD6IP pseudogene 2 | transcribed_pseu | 1 | 1 | 2 | 2 | 0.984 |
| 646282 | NR_036679 | **AZGP1P1** | AZGP1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646294 | gene-RPS2P29 | **RPS2P29** | ribosomal protein S2 pse | pseudogene | 1 | 1 | 2 | 2 | 0.833 |
| 646300 | NR_027898 | **COL6A4P2** | collagen type VI alpha 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646309 | gene-NAMPTP1 | **NAMPTP1** | nicotinamide phosphorib | pseudogene | 8 | 8 | 9 | 9 | 1.002 |
| 646316 | gene-TERF1P3 | **TERF1P3** | TERF1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 646324 | NR_037195 | **LINC00607** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 646330 | gene-BTBD6P1 | **BTBD6P1** | BTB domain containing 6 | pseudogene | 0 | 0 | 1 | 1 | 1.104 |
| 646346 | gene-RPL7P58 | **RPL7P58** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646347 | gene-LOC646347 | **LOC646347** | spermine synthase pseu | pseudogene | 0 | 0 | 1 | 1 | 0.826 |
| 646348 | gene-ARL6IP1P2 | **ARL6IP1P2** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646358 | gene-LOC646358 | **LOC646358** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.090 |
| 646359 | gene-TERF1P2 | **TERF1P2** | TERF1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646360 | gene-TMEM161BP1 | **TMEM161BP1** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 646362 | gene-FTH1P13 | **FTH1P13** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.139 |
| 646370 | NR_135666 | **IGHV1OR15-3** | immunoglobulin heavy va | transcribed_pseu | 0 | 1 | 1 | 2 | 1.245 |
| 646377 | gene-PYHIN5P | **PYHIN5P** | pyrin and HIN domain fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646378 | gene-DDX18P5 | **DDX18P5** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646382 | gene-DPPA5P1 | **DPPA5P1** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646383 | NR_148980 | **ZBTB44-DT** | ZBTB44 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646388 | gene-LOC646388 | **LOC646388** | zinc finger CCHC-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646392 | gene-NIP7P2 | **NIP7P2** | NIP7 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646396 | NR_033735 | **REREP3** | arginine-glutamic acid di | transcribed_pseu | 0 | 0 | 1 | 1 | 1.094 |
| 646405 | NR_026730 | **TPTE2P1** | transmembrane phosphc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646408 | gene-LOC646408 | **LOC646408** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646417 | gene-RPL29P5 | **RPL29P5** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646424 | NM_001080525,XM_ | **SPINK8** | serine peptidase inhibitor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646446 | gene-RPL27P2 | **RPL27P2** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646450 | NR_161301 | **ARIH2OS** | ARIH2 opposite strand In | lncRNA | 1 | 1 | 2 | 2 | 0.754 |
| 646457 | NM_001277378,XM_ | **C19orf67** | chromosome 19 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646463 | gene-UBE2HP1 | **UBE2HP1** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646467 | gene-CNN2P1 | **CNN2P1** | calponin 2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646471 | NR_024498 | **LOC646471** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 646476 | gene-RPL7AP39 | **RPL7AP39** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.042 |
| 646480 | NM_001080526 | **FABP9** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646483 | gene-RPL6P19 | **RPL6P19** | ribosomal protein L6 pse | pseudogene | 2 | 2 | 3 | 3 | 1.041 |
| 646486 | NM_001105281,NR_ | **FABP12** | fatty acid binding protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646489 | gene-RPL21P70 | **RPL21P70** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646498 | NM_001080528,XM_ | **C3orf84** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646505 | gene-CLK3P1 | **CLK3P1** | CDC like kinase 3 pseud | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 646507 | gene-SPATA31E3P | **SPATA31E3P** | SPATA31 subfamily E m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646508 | NR_046365 | **FAM90A27P** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646517 | gene-LOC646517 | **LOC646517** | WT1 associated protein p | pseudogene | 1 | 2 | 2 | 3 | 1.147 |
| 646520 | gene-SUCLA2P1 | **SUCLA2P1** | SUCLA2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646522 | NR_120444 | **LINC02743** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646526 | gene-HMGB1P18 | **HMGB1P18** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646527 | gene-RPS3AP44 | **RPS3AP44** | RPS3A pseudogene 44 | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 646531 | gene-YBX1P2 | **YBX1P2** | Y-box binding protein 1 p | pseudogene | 0 | 1 | 1 | 2 | 1.158 |
| 646532 | gene-RPL19P5 | **RPL19P5** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 646538 | gene-RPL7P10 | **RPL7P10** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646548 | NR_135825 | **LOC646548** | ADAM metallopeptidase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646555 | gene-ARID3BP1 | **ARID3BP1** | ARID3B pseudogene 1 | pseudogene | 7 | 6 | 8 | 7 | 0.893 |
| 646557 | gene-OSTCP3 | **OSTCP3** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646566 | gene-RPLP1P12 | **RPLP1P12** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646567 | gene-OSTCP2 | **OSTCP2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646572 | gene-CHCHD3P3 | **CHCHD3P3** | coiled-coil-helix-coiled-co | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 646575 | gene-CYP4F10P | **CYP4F10P** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646576 | NR_037595 | **HHIP-AS1** | HHIP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.830 |
| 646577 | gene-HMGB1P16 | **HMGB1P16** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646581 | gene-IFNWP2 | **IFNWP2** | interferon omega 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646583 | gene-RPS4XP18 | **RPS4XP18** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646588 | NR_157808,NR_157 | **LOC646588** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646592 | gene-ZNF652P1 | **ZNF652P1** | zinc finger protein 652 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646600 | NR_126326 | **IGF2BP2-AS1** | IGF2BP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646603 | NM_001080531,XM_ | **C4orf51** | chromosome 4 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646609 | gene-CLIC4P1 | **CLIC4P1** | chloride intracellular cha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646612 | gene-EEF1A1P25 | **EEF1A1P25** | eukaryotic translation elc | pseudogene | 1 | 1 | 2 | 2 | 1.076 |
| 646614 | gene-BUB3P1 | **BUB3P1** | BUB3 mitotic checkpoint | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646616 | gene-LOC646616 | **LOC646616** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646619 | gene-ATP5MC1P3 | **ATP5MC1P3** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646620 | gene-RPL3P8 | **RPL3P8** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646624 | gene-RPL27P4 | **RPL27P4** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 0.929 |
| 646625 | NM_001105577 | **URAD** | ureidoimidazoline (2-oxo- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646626 | NR_045484 | **LOC646626** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.279 |
| 646627 | NM_001085474,NM_ | **LYPD8** | LY6/PLAUR domain cont | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646630 | gene-CHCHD2P8 | **CHCHD2P8** | coiled-coil-helix-coiled-co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646639 | gene-TOMM40P3 | **TOMM40P3** | TOMM40 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.935 |
| 646641 | gene-RPL7L1P7 | **RPL7L1P7** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646643 | NM_001370096,XM_ | **SBK2** | SH3 domain binding kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646644 | gene-LLPHP3 | **LLPHP3** | LLPH pseudogene 3 | pseudogene | 1 | 1 | 2 | 2 | 1.320 |
| 646652 | NR_157803 | **LOC646652** | integral membrane glyco | transcribed_pseu | 0 | 0 | 1 | 1 | 1.043 |
| 646658 | NM_001105579,XM_ | **SYNDIG1L** | synapse differentiation in | protein_coding | 0 | 0 | 1 | 1 | 1.005 |
| 646660 | gene-RPS20P26 | **RPS20P26** | ribosomal protein S20 ps | pseudogene | 0 | 1 | 1 | 2 | 1.469 |
| 646663 | gene-RFPL4AP1 | **RFPL4AP1** | ret finger protein like 4A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646666 | gene-LOC646666 | **LOC646666** | NAD(P)HX epimerase ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646672 | gene-RPL15P20 | **RPL15P20** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646685 | gene-RPL23AP41 | **RPL23AP41** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646688 | gene-RPL4P2 | **RPL4P2** | ribosomal protein L4 pse | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 646693 | gene-CNN2P10 | **CNN2P10** | calponin 2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646696 | gene-MLXP1 | **MLXP1** | MLX pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646701 | gene-DPPA5P4 | **DPPA5P4** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646708 | gene-LOC646708 | **LOC646708** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646709 | gene-LOC646709 | **LOC646709** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646710 | gene-RPL19P4 | **RPL19P4** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646719 | NR_046262 | **NIPBL-DT** | NIPBL divergent transcri | lncRNA | 12 | 11 | 13 | 12 | 0.907 |
| 646721 | gene-SINHCAFP3 | **SINHCAFP3** | SINHCAF pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 646723 | gene-KRT18P31 | **KRT18P31** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.914 |
| 646730 | NR_136190 | **LINC02618** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646736 | NR_046102 | **LOC646736** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646737 | gene-RPS14P6 | **RPS14P6** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646743 | NR_033930 | **PRSS40B** | serine protease 40B (pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646745 | gene-LOC646745 | **LOC646745** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646753 | gene-RPS26P2 | **RPS26P2** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 0.930 |
| 646754 | NM_001206631 | **TRIM64C** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646755 | gene-MFAP1P1 | **MFAP1P1** | microfibril associated pro | pseudogene | 0 | 0 | 1 | 1 | 1.328 |
| 646758 | gene-PTPN2P2 | **PTPN2P2** | PTPN2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646762 | NR_024278 | **LOC646762** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646766 | gene-RPL35P2 | **RPL35P2** | ribosomal protein L35 ps | pseudogene | 1 | 1 | 2 | 2 | 1.156 |
| 646770 | gene-TRIM77BP | **TRIM77BP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646780 | gene-PHKA1P1 | **PHKA1P1** | phosphorylase kinase re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646784 | gene-RPL5P6 | **RPL5P6** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646785 | gene-RPS10P13 | **RPS10P13** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.067 |
| 646787 | gene-RPL31P37 | **RPL31P37** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646791 | gene-ANP32BP1 | **ANP32BP1** | acidic nuclear phosphop | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 646794 | gene-SNF8P1 | **SNF8P1** | SNF8 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646797 | gene-LOC646797 | **LOC646797** | glutamyl aminopeptidase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646799 | NM_001136571 | **ZAR1L** | zygote arrest 1 like | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 646801 | gene-LOC646801 | **LOC646801** | pantothenate kinase 3 ps | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 646802 | NR_103761 | **CYP4F62P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646804 | gene-LOC646804 | **LOC646804** | alkylated DNA repair pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646808 | gene-LAGE3P1 | **LAGE3P1** | L antigen family member | pseudogene | 1 | 0 | 2 | 1 | 0.795 |
| 646813 | NR_024504 | **LOC646813** | DExH-box helicase 9 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646817 | NM_001287737 | **SETSIP** | SET like protein | protein_coding | 0 | 0 | 1 | 1 | 1.115 |
| 646819 | gene-RPS15AP19 | **RPS15AP19** | ribosomal protein S15a p | pseudogene | 1 | 1 | 2 | 2 | 1.193 |
| 646820 | gene-RPL19P19 | **RPL19P19** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646828 | gene-LOC646828 | **LOC646828** | carbonic anhydrase 5A p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646837 | gene-EEF1GP1 | **EEF1GP1** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646839 | gene-TPM3P8 | **TPM3P8** | tropomyosin 3 pseudoge | pseudogene | 1 | 1 | 2 | 2 | 1.071 |
| 646851 | NM_001013647,NM_ | **FAM227A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.026 |
| 646853 | gene-LOC646853 | **LOC646853** | non-histone chromosoma | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 646862 | NM_001195135 | **RNF225** | ring finger protein 225 | protein_coding | 0 | 0 | 1 | 1 | 1.276 |
| 646864 | NM_001349726,XM_ | **ZNF723** | zinc finger protein 723 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646870 | gene-LOC646870 | **LOC646870** | centrosomal protein 57kD | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646873 | gene-PRELID3BP10 | **PRELID3BP10** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646875 | gene-RPL12P2 | **RPL12P2** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646879 | gene-ARL2BPP3 | **ARL2BPP3** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646884 | gene-RPL29P28 | **RPL29P28** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646890 | gene-AIDAP2 | **AIDAP2** | AIDA pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.944 |
| 646891 | gene-ENTR1P2 | **ENTR1P2** | ENTR1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646892 | NM_001101404,XM_ | **SH2D7** | SH2 domain containing 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 646903 | NR_036538 | **LOC646903** | uncharacterized LOC646 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 646909 | gene-RPL17P33 | **RPL17P33** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646910 | gene-HSPD1P9 | **HSPD1P9** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 646912 | gene-RPL7P52 | **RPL7P52** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.897 |
| 646913 | gene-SEPTIN7P3 | **SEPTIN7P3** | septin 7 pseudogene 3 | pseudogene | 1 | 0 | 2 | 1 | 0.423 |
| 646915 | NM_001304449,NM | **ZNF806** | zinc finger protein 806 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646934 | gene-LOC646934 | **LOC646934** | golgin A6 family member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646936 | gene-CTBP2P5 | **CTBP2P5** | CTBP2 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646938 | NR_036495 | **LOC646938** | TBC1 domain family mer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 646942 | gene-RPS10P14 | **RPS10P14** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646949 | gene-RPL23P6 | **RPL23P6** | ribosomal protein L23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.101 |
| 646951 | NM_001351281 | **MINDY4B** | MINDY family member 4l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646954 | gene-YWHAQP4 | **YWHAQP4** | YWHAQ pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646960 | NM_001195129,NM | **PRSS56** | serine protease 56 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646962 | NM_001039792 | **HRCT1** | histidine rich carboxyl ter | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 646966 | gene-RPL26P16 | **RPL26P16** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646970 | gene-LOC646970 | **LOC646970** | chromosome 5 open rea | pseudogene | 0 | 0 | 1 | 1 | 0.977 |
| 646976 | XR_002958385 | **LOC646976** | translation initiation facto | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646981 | gene-PTPN2P1 | **PTPN2P1** | PTPN2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.024 |
| 646982 | NR_024505,NR_02 | **LINC00598** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 646993 | gene-HMGB3P24 | **HMGB3P24** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646995 | gene-LOC646995 | **LOC646995** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646996 | gene-RAB42P1 | **RAB42P1** | RAB42, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 646999 | gene-LOC646999 | **LOC646999** | akirin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647000 | gene-TUBBP2 | **TUBBP2** | tubulin beta pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.910 |
| 647001 | gene-GAPDHP35 | **GAPDHP35** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647002 | gene-IDI1P1 | **IDI1P1** | IDI1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647009 | gene-RWDD4P2 | **RWDD4P2** | RWD domain containing | pseudogene | 6 | 6 | 7 | 7 | 1.007 |
| 647012 | NR_033658 | **YY1P2** | YY1 transcription factor | transcribed_pseu | 0 | 0 | 1 | 1 | 0.951 |
| 647013 | gene-KCTD9P3 | **KCTD9P3** | potassium channel tetra | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 647015 | gene-CDC37P2 | **CDC37P2** | cell division cycle 37 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647016 | gene-EIF2S2P7 | **EIF2S2P7** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647024 | NM_001164446 | **C6orf132** | chromosome 6 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647030 | gene-EEF1B2P6 | **EEF1B2P6** | eukaryotic translation elc | pseudogene | 1 | 1 | 2 | 2 | 0.901 |
| 647033 | NR_003284 | **PA2G4P4** | proliferation-associated 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.105 |
| 647034 | gene-RPS14P10 | **RPS14P10** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647042 | NM_001164465 | **GOLGA6L10** | golgin A6 family like 10 | protein_coding | 2 | 2 | 3 | 3 | 0.929 |
| 647047 | gene-TCP1P1 | **TCP1P1** | t-complex 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647051 | gene-YWHABP1 | **YWHABP1** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647060 | NM_001085452,XM | **SPATA31A1** | SPATA31 subfamily A m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647070 | NR_148933 | **LOC647070** | uncharacterized LOC647 | lncRNA | 1 | 1 | 2 | 2 | 0.853 |
| 647076 | gene-BRD7P2 | **BRD7P2** | bromodomain containing | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 647081 | gene-SDHDP2 | **SDHDP2** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.020 |
| 647085 | gene-PPIAP25 | **PPIAP25** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647086 | gene-LOC647086 | **LOC647086** | chromosome 20 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647087 | NM_001130929 | **STMP1** | short transmembrane mi | protein_coding | 55 | 53 | 56 | 54 | 0.971 |
| 647094 | gene-RPLP0P11 | **RPLP0P11** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647099 | gene-RPL23AP42 | **RPL23AP42** | ribosomal protein L23a p | pseudogene | 148 | 166 | 149 | 167 | 1.119 |
| 647102 | gene-ELK1P1 | **ELK1P1** | ELK1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647107 | NR_033945 | **LINC01192** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 647112 | gene-RPL27P6 | **RPL27P6** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647121 | NR_003955 | **EMBP1** | embigin pseudogene 1 | transcribed_pseu | 3 | 3 | 4 | 4 | 0.945 |
| 647123 | gene-UQCRFS1P2 | **UQCRFS1P2** | ubiquinol-cytochrome c r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647132 | gene-LOC647132 | **LOC647132** | DExH-box helicase 29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647135 | NM_001271870,NM | **SRGAP2B** | SLIT-ROBO Rho GTPase | protein_coding | 6 | 5 | 7 | 6 | 0.857 |
| 647144 | gene-ABHD17AP8 | **ABHD17AP8** | ABHD17A pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647145 | gene-LOC647145 | **LOC647145** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647150 | gene-LOC647150 | **LOC647150** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 0.814 |
| 647155 | gene-RPS15AP20 | **RPS15AP20** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647156 | gene-ACTR3BP3 | **ACTR3BP3** | ACTR3B pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647158 | gene-RPSAP33 | **RPSAP33** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647162 | gene-KRT18P33 | **KRT18P33** | keratin 18 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 647166 | NM_001351589,NR | **C13orf42** | chromosome 13 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647167 | gene-EEF1A1P14 | **EEF1A1P14** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 647174 | NM_001101320,XM | **SERPINE3** | serpin family E member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647175 | gene-GSTA11P | **GSTA11P** | glutathione S-transferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647190 | NR_046241 | **RPS16P5** | ribosomal protein S16 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 0.943 |
| 647195 | gene-PRR13P1 | **PRR13P1** | proline rich 13 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647201 | gene-RPL23AP16 | **RPL23AP16** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647215 | NR_147176 | **MROH3P** | maestro heat like repeat | transcribed_pseu | 0 | 0 | 1 | 1 | 0.960 |
| 647219 | NM_001270601 | **ASCL5** | achaete-scute family bHl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647236 | gene-RPL39P15 | **RPL39P15** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.215 |
| 647253 | gene-LOC647253 | **LOC647253** | ring finger protein 13 pse | pseudogene | 0 | 0 | 1 | 1 | 1.065 |
| 647264 | NM_001370368 | **LOC647264** | keratin-associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647276 | gene-RPL4P4 | **RPL4P4** | ribosomal protein L4 pse | pseudogene | 7 | 9 | 8 | 10 | 1.296 |
| 647285 | gene-RPL29P9 | **RPL29P9** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647286 | NM_001257268 | **RD3L** | retinal degeneration 3 lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647288 | NR_027466 | **CTAGE11P** | CTAGE family member 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.968 |
| 647298 | gene-HSPD1P8 | **HSPD1P8** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647299 | gene-LOC647299 | **LOC647299** | enolase-phosphatase 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647302 | gene-LSM3P3 | **LSM3P3** | LSM3 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647307 | gene-PEBP1P2 | **PEBP1P2** | phosphatidylethanolamir | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 647309 | NM_001146686,XR_ | **GMNC** | geminin coiled-coil doma | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 647310 | NM_001195082,XM | **TEX22** | testis expressed 22 | protein_coding | 2 | 3 | 3 | 4 | 1.258 |
| 647317 | gene-GYG1P2 | **GYG1P2** | glycogenin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647319 | gene-VEZF1P1 | **VEZF1P1** | vascular endothelial zinc | pseudogene | 0 | 0 | 1 | 1 | 0.945 |
| 647323 | NR_033944 | **LINC02026** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 647415 | gene-ALG1L5P | **ALG1L5P** | ALG1 like 5, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647476 | NR_037925 | **FRG2EP** | FSHD region gene 2 fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 647481 | gene-LOC647481 | **LOC647481** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647503 | gene-LOC647503 | **LOC647503** | SNU13 homolog, small n | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647507 | gene-CNN2P4 | **CNN2P4** | calponin 2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647532 | gene-FARSBP1 | **FARSBP1** | FARSB pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647569 | gene-PFN1P12 | **PFN1P12** | profilin 1 pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647589 | NM_001191054,NM | **ANHX** | anomalous homeobox | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 647654 | gene-CDC27P5 | **CDC27P5** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 647696 | gene-CDC27P1 | **CDC27P1** | cell division cycle 27 pse | pseudogene | 0 | 0 | 1 | 1 | 0.924 |
| 647859 | NR_026578 | **OCLNP1** | OCLN pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 647946 | NR_024391 | **MIR924HG** | MIR924 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 647979 | NR_027451 | **NORAD** | non-coding RNA activate | lncRNA | 190 | 164 | 191 | 165 | 0.867 |
| 647996 | gene-LOC647996 | **LOC647996** | apical junction compone | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648000 | gene-RPL7P23 | **RPL7P23** | ribosomal protein L7 pse | pseudogene | 3 | 3 | 4 | 4 | 1.002 |
| 648217 | gene-RPL37P23 | **RPL37P23** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 648283 | gene-TERF1P4 | **TERF1P4** | TERF1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 648294 | gene-RPL23AP57 | **RPL23AP57** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648315 | gene-VN2R9P | **VN2R9P** | vomeronasal 2 receptor 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648359 | gene-ABHD17AP3 | **ABHD17AP3** | ABHD17A pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.138 |
| 648442 | gene-LOC648442 | **LOC648442** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648532 | gene-NRBF2P1 | **NRBF2P1** | nuclear receptor binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648691 | NR_027426 | **LL22NC03-63E9.3** | uncharacterized LOC648 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 648729 | gene-RPS15AP24 | **RPS15AP24** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648740 | NR_024438 | **ACTG1P4** | actin gamma 1 pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.019 |
| 648791 | NM_001145115 | **PPP1R3G** | protein phosphatase 1 re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 648809 | NR_036652 | **EFL1P1** | elongation factor like GT | transcribed_pseu | 1 | 0 | 2 | 1 | 0.768 |
| 648822 | gene-HMGN2P18 | **HMGN2P18** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648927 | gene-LOC648927 | **LOC648927** | lysine acetyltransferase 7 | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 648934 | gene-LOC648934 | **LOC648934** | citrate synthase, mitocho | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 648980 | gene-BCRP5 | **BCRP5** | BCR pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.051 |
| 648987 | NR_034085,NR_03 | **LOC648987** | uncharacterized LOC648 | lncRNA | 7 | 6 | 8 | 7 | 0.892 |
| 649024 | gene-CSP2 | **CSP2** | CS pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 649133 | NR_038829 | **LOC649133** | uncharacterized LOC649 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 649137 | NM_001358413 | **ZSCAN5C** | zinc finger and SCAN do | protein_coding | 0 | 0 | 1 | 1 | 0.988 |
| 649166 | gene-LOC649166 | **LOC649166** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649179 | NR_135291 | **PRAMENP** | PRAME N-terminal like, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 649238 | NM_001351293,NM | **PNMA6E** | PNMA family member 6E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 649264 | NR_037839 | **CES5AP1** | carboxylesterase 5A pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 649288 | gene-AK4P6 | **AK4P6** | adenylate kinase 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649299 | gene-RPL36AP51 | **RPL36AP51** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649324 | NR_111947 | **PRAMEF34P** | PRAME family member 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 649330 | NM_001146181,NM | **HNRNPCL3** | heterogeneous nuclear r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 649352 | NR_046415 | **LOC649352** | ubiquitin carboxyl-termin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 649395 | NR_029404 | **YWHAEP1** | tyrosine 3-monooxygena | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 649446 | NR_024101 | **DLGAP1-AS1** | DLGAP1 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.691 |
| 649489 | gene-PPP1R2P5 | **PPP1R2P5** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649620 | gene-CDC27P6 | **CDC27P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649873 | gene-PPIAP53 | **PPIAP53** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649925 | gene-SETP16 | **SETP16** | SET pseudogene 16 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 649946 | NR_003040 | **RPL23AP64** | ribosomal protein L23a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 650024 | gene-LOC650024 | **LOC650024** | cancer/testis antigen 55 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 650059 | gene-RPL21P82 | **RPL21P82** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 650172 | gene-CCT4P1 | **CCT4P1** | chaperonin containing T( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 650226 | NR_029420 | **LOC650226** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 650368 | NR_024248 | **TSSC2** | tumor suppressing subtr | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 650560 | gene-DDX3P3 | **DDX3P3** | DEAD-box helicase 3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 650623 | NR_027512 | **BEND3P3** | BEN domain containing 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 650655 | NR_003574 | **ABCA17P** | ATP binding cassette sul | transcribed_pseu | 0 | 1 | 1 | 2 | 1.142 |
| 650669 | NR_044995 | **GAS6-AS1** | GAS6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 650747 | NR_146081 | **IMPA1P1** | inositol monophosphatas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.062 |
| 650788 | gene-RPS28P9 | **RPS28P9** | ribosomal protein S28 ps | pseudogene | 2 | 3 | 3 | 4 | 1.388 |
| 650794 | NR_038939,NR_04( | **MIPEPP3** | mitochondrial intermedia | transcribed_pseu | 11 | 9 | 12 | 10 | 0.844 |
| 650901 | gene-RPS2P12 | **RPS2P12** | ribosomal protein S2 pse | pseudogene | 0 | 1 | 1 | 2 | 1.195 |
| 651053 | gene-DDX18P2 | **DDX18P2** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 651144 | gene-NACAP2 | **NACAP2** | NACA pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 651249 | gene-RPL34P27 | **RPL34P27** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 651250 | gene-LRRC37A16P | **LRRC37A16P** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 651258 | gene-GAPDHP37 | **GAPDHP37** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 651302 | NR_103448 | **ZNF192P1** | zinc finger protein 192 p | transcribed_pseu | 6 | 5 | 7 | 6 | 0.917 |
| 651337 | NR_147508 | **LOC651337** | uncharacterized LOC651 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 651430 | NR_046264 | **FLJ38576** | uncharacterized LOC651 | lncRNA | 0 | 0 | 1 | 1 | 1.080 |
| 651628 | gene-EEF1GP3 | **EEF1GP3** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 651714 | gene-MUC20P1 | **MUC20P1** | mucin 20, cell surface as | pseudogene | 0 | 0 | 1 | 1 | 1.156 |
| 651746 | NM_001164440,XM | **ANKRD33B** | ankyrin repeat domain 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 651815 | gene-KLF3P1 | **KLF3P1** | Kruppel like factor 3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.062 |
| 652276 | NR_015441 | **LOC652276** | potassium channel tetra | transcribed_pseu | 7 | 6 | 8 | 7 | 0.930 |
| 652411 | gene-RPSAP44 | **RPSAP44** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 652489 | gene-SUMO2P3 | **SUMO2P3** | SUMO2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 652549 | gene-LOC652549 | **LOC652549** | SNW domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.038 |
| 652608 | gene-LOC652608,g | **LOC652608** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652624 | gene-RPSAP46 | **RPSAP46** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 652670 | gene-RPS3AP15 | **RPS3AP15** | RPS3A pseudogene 15 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652904 | gene-CKS1BP6 | **CKS1BP6** | CDC28 protein kinase re | pseudogene | 0 | 0 | 1 | 1 | 1.090 |
| 652959 | gene-BTF3P5 | **BTF3P5** | basic transcription factor | pseudogene | 1 | 1 | 2 | 2 | 1.224 |
| 652960 | gene-BTF3P7 | **BTF3P7** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.057 |
| 652961 | gene-BTF3P8 | **BTF3P8** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 652963 | gene-BTF3P12 | **BTF3P12** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 652964 | gene-BTF3P3 | **BTF3P3** | BTF3 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.163 |
| 652965 | NR_002918 | **SNORA48** | small nucleolar RNA, H/A | snoRNA | 5 | 2 | 6 | 3 | 0.517 |
| 652966 | NR_002604 | **SNORD10** | small nucleolar RNA, C/I | snoRNA | 4 | 5 | 5 | 6 | 1.251 |
| 652968 | NM_001037666 | **CASTOR1** | cytosolic arginine sensor | protein_coding | 0 | 0 | 1 | 1 | 0.925 |
| 652972 | NR_034087 | **LRRC37A5P** | leucine rich repeat conta | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 652974 | gene-RPL17P2 | **RPL17P2** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652978 | gene-RPL7AP2 | **RPL7AP2** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652983 | gene-RPL35AP2 | **RPL35AP2** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652985 | gene-RPL7AP4 | **RPL7AP4** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 652991 | NM_001037802,NM | **SKOR2** | SKI family transcriptional | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 652995 | NR_015379 | **UCA1** | urothelial cancer associa | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 653017 | gene-TBC1D3P3 | **TBC1D3P3** | TBC1 domain family mer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653042 | gene-REXO1L4P | **REXO1L4P** | REXO1 like 4, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653045 | gene-PTPN20CP | **PTPN20CP** | protein tyrosine phospha | pseudogene | 3 | 2 | 4 | 3 | 0.769 |
| 653061 | NM_001355465,XM | **GOLGA8S** | golgin A8 family member | protein_coding | 1 | 1 | 2 | 2 | 0.922 |
| 653067 | NM_001097604,NM | **XAGE1B** | X antigen family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653073 | NM_001282472,XM | **GOLGA8J** | golgin A8 family member | protein_coding | 5 | 4 | 6 | 5 | 0.785 |
| 653075 | NM_001355469,XM | **GOLGA8T** | golgin A8 family member | protein_coding | 9 | 7 | 10 | 8 | 0.807 |
| 653079 | gene-RPL21P98 | **RPL21P98** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.375 |
| 653080 | NR_146391 | **GUSBP16** | GUSB pseudogene 16 | transcribed_pseu | 7 | 7 | 8 | 8 | 0.916 |
| 653082 | NM_001351303,NR | **ZDHHC11B** | zinc finger DHHC-type c | protein_coding | 0 | 0 | 1 | 1 | 1.140 |
| 653108 | gene-CXADRP1 | **CXADRP1** | CXADR pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653113 | NR_024254 | **FAM86FP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 653115 | gene-HNRNPA3P6 | **HNRNPA3P6** | heterogeneous nuclear r | pseudogene | 33 | 29 | 34 | 30 | 0.906 |
| 653121 | NM_001040441,NM | **ZBTB8A** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 653122 | gene-LSM12P1 | **LSM12P1** | LSM12 pseudogene 1 | pseudogene | 31 | 31 | 32 | 32 | 0.989 |
| 653123 | NR_110999 | **FAM74A6** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 653125 | NM_001282493 | **GOLGA8K** | golgin A8 family member | protein_coding | 6 | 5 | 7 | 6 | 0.789 |
| 653140 | NM_001040710 | **FAM228A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653145 | NM_001040084,NM | **ANXA8** | annexin A8 | protein_coding | 0 | 0 | 1 | 1 | 0.900 |
| 653149 | NM_001143987,NM | **NBPF6** | NBPF member 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653155 | gene-LOC653155 | **LOC653155** | pre-mRNA processing fa | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 653156 | gene-RPL21P53 | **RPL21P53** | ribosomal protein L21 ps | pseudogene | 17 | 18 | 18 | 19 | 1.055 |
| 653160 | NR_037869 | **LOC653160** | uncharacterized LOC653 | lncRNA | 1 | 0 | 2 | 1 | 0.800 |
| 653162 | NR_026890 | **RPSAP9** | ribosomal protein SA pse | transcribed_pseu | 6 | 6 | 7 | 7 | 0.910 |
| 653163 | gene-LCN1P2 | **LCN1P2** | lipocalin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653166 | NR_145519 | **OR1D4** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 653174 | gene-TSPY6P | **TSPY6P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653175 | gene-HAUS6P1 | **HAUS6P1** | HAUS augmin like compl | pseudogene | 1 | 1 | 2 | 2 | 1.041 |
| 653188 | NR_027386 | **GUSBP3** | GUSB pseudogene 3 | transcribed_pseu | 3 | 2 | 4 | 3 | 0.897 |
| 653189 | gene-BTF3L4P2 | **BTF3L4P2** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 653190 | NR_003569 | **ABCC6P1** | ATP binding cassette sul | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 653192 | NM_001164464,XM | **TRIM43B** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653194 | gene-KHDC1P1 | **KHDC1P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653199 | gene-TCAF1P1 | **TCAF1P1** | TRPM8 channel associat | pseudogene | 0 | 0 | 1 | 1 | 1.025 |
| 653203 | NR_136560,NR_16 | **FAM230A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 653214 | gene-PPIAP22 | **PPIAP22** | peptidylprolyl isomerase | pseudogene | 36 | 39 | 37 | 40 | 1.079 |
| 653220 | NM_001097594,NM | **XAGE1A** | X antigen family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653226 | gene-SRP9P1 | **SRP9P1** | signal recognition particl | pseudogene | 21 | 18 | 22 | 19 | 0.854 |
| 653232 | gene-RPL15P3 | **RPL15P3** | ribosomal protein L15 ps | pseudogene | 91 | 90 | 92 | 91 | 0.987 |
| 653234 | NR_160521 | **AGAP10P** | ArfGAP with GTPase dor | transcribed_pseu | 1 | 1 | 2 | 2 | 1.101 |
| 653236 | gene-RPL23AP49 | **RPL23AP49** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653238 | NR_033417 | **GTF2H2B** | general transcription fact | transcribed_pseu | 34 | 30 | 35 | 31 | 0.887 |
| 653240 | NM_033059 | **KRTAP4-11** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653247 | NM_006248 | **PRB2** | proline rich protein BstNI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653259 | NR_165820 | **AGAP14P** | ArfGAP with GTPase dor | transcribed_pseu | 1 | 1 | 2 | 2 | 0.989 |
| 653268 | NR_126580 | **AGAP7P** | ArfGAP with GTPase dor | transcribed_pseu | 1 | 2 | 2 | 3 | 1.167 |
| 653269 | NM_001277406,NM | **POTEI** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 653275 | NM_001079530,XM | **CFC1B** | cripto, FRL-1, cryptic fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653282 | NM_001080140,XM | **CT47A7** | cancer/testis antigen fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653288 | gene-TSPY7P | **TSPY7P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653303 | gene-LOC653303 | **LOC653303** | proprotein convertase su | pseudogene | 7 | 9 | 8 | 10 | 1.164 |
| 653308 | NM_001079516,NM | **ASAH2B** | N-acylsphingosine amid | protein_coding | 2 | 2 | 3 | 3 | 1.082 |
| 653314 | gene-RPL19P9 | **RPL19P9** | ribosomal protein L19 ps | pseudogene | 0 | 1 | 1 | 2 | 1.413 |
| 653316 | NR_149722,NR_15 | **FAM153CP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 653319 | NM_001040715,NM | **KIAA0895L** | KIAA0895 like | protein_coding | 8 | 7 | 9 | 8 | 0.929 |
| 653333 | NM_001137610,NR | **FAM86B2** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653354 | gene-ARMCX7P | **ARMCX7P** | armadillo repeat containi | pseudogene | 5 | 4 | 6 | 5 | 0.822 |
| 653361 | NM_000265 | **NCF1** | neutrophil cytosolic facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653363 | gene-TEX28P2 | **TEX28P2** | testis expressed 28 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653364 | gene-HSPB1P2 | **HSPB1P2** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 653381 | NR_146393,NR_14( | **SORD2P** | sorbitol dehydrogenase 2 | transcribed_pseu | 3 | 3 | 4 | 4 | 0.992 |
| 653390 | NR_003369 | **RRN3P2** | RRN3 pseudogene 2 | transcribed_pseu | 10 | 9 | 11 | 10 | 0.924 |
| 653404 | NM_001085476 | **FOXD4L6** | forkhead box D4 like 6 | protein_coding | 0 | 1 | 1 | 2 | 1.313 |
| 653406 | gene-NAIPP4 | **NAIPP4** | NAIP pseudogene 4 | pseudogene | 2 | 1 | 3 | 2 | 0.960 |
| 653423 | NM_001081552,NM | **SPAG11A** | sperm associated antige | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653427 | NM_001126334 | **FOXD4L5** | forkhead box D4 like 5 | protein_coding | 0 | 0 | 1 | 1 | 0.952 |

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|---|---|---|---|---|---|---|---|---|---|
| 653435 | gene-GUSBP6 | **GUSBP6** | GUSB pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653437 | NM_001102467,XM | **AQP12B** | aquaporin 12B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653440 | gene-WASH6P,gen | **WASH6P** | WASP family homolog 6, | pseudogene | 40 | 41 | 41 | 42 | 1.023 |
| 653441 | gene-PHC1P1 | **PHC1P1** | polyhomeotic homolog 1 | pseudogene | 2 | 1 | 3 | 2 | 0.819 |
| 653453 | gene-FGF7P5 | **FGF7P5** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653458 | gene-BMS1P9 | **BMS1P9** | BMS1 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 0.752 |
| 653464 | NM_001271872,NM | **SRGAP2C** | SLIT-ROBO Rho GTPas | protein_coding | 6 | 5 | 7 | 6 | 0.926 |
| 653479 | NR_033934 | **MRPL45P2** | mitochondrial ribosomal | transcribed_pseu | 5 | 4 | 6 | 5 | 0.778 |
| 653483 | NR_027906 | **AFDN-DT** | AFDN divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 653486 | NM_001097610,XM | **SCGB1C2** | secretoglobin family 1C r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653489 | NM_001144013,XM | **RGPD3** | RANBP2 like and GRIP c | protein_coding | 1 | 1 | 2 | 2 | 0.833 |
| 653492 | NR_026824 | **PSG10P** | pregnancy specific beta- | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 653499 | NM_001042507 | **LGALS7B** | galectin 7B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653503 | gene-LOC653503 | **LOC653503** | G protein subunit gamma | pseudogene | 1 | 0 | 2 | 1 | 0.931 |
| 653505 | NM_001143883 | **PPIAL4A** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 0.873 |
| 653509 | NM_001093770,NM | **SFTPA1** | surfactant protein A1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653510 | gene-CBWD4P | **CBWD4P** | COBW domain containin | pseudogene | 8 | 10 | 9 | 11 | 1.182 |
| 653513 | NR_037182 | **LOC653513** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 0.820 |
| 653519 | NM_001097612,NM | **GPR89A** | G protein-coupled recep | protein_coding | 35 | 36 | 36 | 37 | 1.034 |
| 653543 | gene-DUX4L7 | **DUX4L7** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653544 | gene-DUX4L6 | **DUX4L6** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653545 | gene-DUX4L5 | **DUX4L5** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653548 | gene-DUX4L3 | **DUX4L3** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653550 | NM_001205259,NR | **TP53TG3C** | TP53 target 3C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653553 | gene-HSPB1P1 | **HSPB1P1** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653557 | gene-BMS1P8 | **BMS1P8** | BMS1 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 0.932 |
| 653566 | gene-SPCS2P4 | **SPCS2P4** | signal peptidase comple | pseudogene | 35 | 32 | 36 | 33 | 0.934 |
| 653567 | NM_001098844,XM | **TMEM236** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 653579 | gene-CD177P1 | **CD177P1** | CD177 molecule pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653583 | NM_198850,XM_00 | **PHLDB3** | pleckstrin homology like | protein_coding | 1 | 2 | 2 | 3 | 1.279 |
| 653590 | gene-GGTLC5P | **GGTLC5P** | gamma-glutamyltransfer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653598 | NM_001135789 | **PPIAL4C** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 0.987 |
| 653604 | NM_001123375 | **H3C13** | H3 clustered histone 13 | protein_coding | 1 | 1 | 2 | 2 | 0.889 |
| 653619 | NM_001098376 | **PRAMEF15** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653631 | gene-LOC653631 | **LOC653631** | axin interactor, dorsaliza | pseudogene | 8 | 8 | 9 | 9 | 0.995 |
| 653635 | NR_024540 | **WASH7P** | WASP family homolog 7, | transcribed_pseu | 8 | 10 | 9 | 11 | 1.198 |
| 653639 | gene-LYPLA2P1 | **LYPLA2P1** | LYPLA2 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.341 |
| 653641 | NM_001164404,XM | **GOLGA6C** | golgin A6 family member | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653643 | NM_001145224 | **GOLGA6D** | golgin A6 family member | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 653645 | NR_002924 | **TBC1D3P1-DHX40P1** | TBC1D3P1-DHX40P1 rea | transcribed_pseu | 0 | 0 | 1 | 1 | 0.958 |
| 653650 | gene-PDPK2P | **PDPK2P** | 3-phosphoinositide depe | pseudogene | 10 | 10 | 11 | 11 | 0.981 |
| 653653 | NR_027408 | **LOC653653** | adaptor related protein c | transcribed_pseu | 0 | 0 | 1 | 1 | 0.905 |
| 653656 | NM_001164419 | **MBD3L4** | methyl-CpG binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653657 | NM_001164425 | **MBD3L3** | methyl-CpG binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653658 | gene-RPS23P8 | **RPS23P8** | ribosomal protein S23 ps | pseudogene | 11 | 13 | 12 | 14 | 1.210 |
| 653659 | NM_001079809 | **TMEM183B** | transmembrane protein 1 | protein_coding | 5 | 5 | 6 | 6 | 1.066 |
| 653665 | gene-RPL21P93 | **RPL21P93** | ribosomal protein L21 ps | pseudogene | 1 | 1 | 2 | 2 | 0.904 |
| 653677 | NR_004401 | **SEC1P** | secretory blood group 1, | transcribed_pseu | 0 | 0 | 1 | 1 | 0.965 |
| 653687 | NR_026594 | **FAM226B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.112 |
| 653689 | NM_001080843,NM | **GSTT2B** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653691 | NR_110549 | **TCAF2P1** | TRPM8 channel associat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.147 |
| 653698 | gene-LOC653698 | **LOC653698** | solute carrier family 25 m | pseudogene | 1 | 1 | 2 | 2 | 0.856 |
| 653702 | gene-RPL7P9 | **RPL7P9** | ribosomal protein L7 pse | pseudogene | 61 | 64 | 62 | 65 | 1.058 |
| 653712 | NR_034179 | **LOC653712** | intraflagellar transport 12 | transcribed_pseu | 1 | 2 | 2 | 3 | 1.197 |
| 653720 | NM_001282468,XM | **GOLGA8M** | golgin A8 family member | protein_coding | 4 | 4 | 5 | 5 | 0.882 |
| 653737 | gene-RPL21P119 | **RPL21P119** | ribosomal protein L21 ps | pseudogene | 23 | 24 | 24 | 25 | 1.035 |
| 653753 | gene-VN1R6P | **VN1R6P** | vomeronasal 1 receptor 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653758 | gene-TPM3P6 | **TPM3P6** | tropomyosin 3 pseudoge | pseudogene | 1 | 1 | 2 | 2 | 1.271 |
| 653773 | gene-RPL31P17 | **RPL31P17** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.110 |
| 653781 | NM_001277083,XM | **POTEJ** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 653784 | NM_001085365,XM | **MZT2A** | mitotic spindle organizing | protein_coding | 151 | 167 | 152 | 168 | 1.106 |
| 653786 | NR_003676 | **OTOAP1** | OTOA pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.032 |
| 653789 | gene-RPL23AP25 | **RPL23AP25** | ribosomal protein L23a p | pseudogene | 1 | 1 | 2 | 2 | 1.252 |
| 653805 | gene-RPS27P8 | **RPS27P8** | ribosomal protein S27 ps | pseudogene | 9 | 14 | 10 | 15 | 1.519 |
| 653808 | NM_152338,XM_01 | **ZG16** | zymogen granule protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 653820 | NM_001100910,NM | **FAM72B** | family with sequence sim | protein_coding | 91 | 87 | 92 | 88 | 0.954 |
| 653857 | NM_001164458,NM | **ACTR3C** | actin related protein 3C | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 653895 | gene-PGGT1BP1 | **PGGT1BP1** | protein geranylgeranyltra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 653924 | gene-GPAT2P2 | **GPAT2P2** | glycerol-3-phosphate ac | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654029 | gene-RPS10P15 | **RPS10P15** | ribosomal protein S10 ps | pseudogene | 0 | 1 | 1 | 2 | 1.658 |
| 654170 | gene-RPS16P8 | **RPS16P8** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654231 | NM_001097622,XM | **OCM** | oncomodulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654254 | NM_001137608 | **ZNF732** | zinc finger protein 732 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654319 | NR_002919 | **SNORA5A** | small nucleolar RNA, H/ | snoRNA | 2 | 1 | 3 | 2 | 0.714 |
| 654320 | NR_002920 | **SNORA8** | small nucleolar RNA, H/ | snoRNA | 18 | 17 | 19 | 18 | 0.947 |
| 654321 | NR_002921 | **SNORA75** | small nucleolar RNA, H/ | snoRNA | 2 | 3 | 3 | 4 | 1.187 |
| 654322 | NR_002922 | **SNORA13** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.203 |
| 654337 | gene-BCYRN1P3 | **BCYRN1P3** | brain cytoplasmic RNA 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654338 | gene-LOC654338 | **LOC654338** | brain cytoplasmic RNA 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654340 | gene-RNPC3P1 | **RNPC3P1** | RNA binding region (RNI | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654342 | NR_027238 | **LSP1P4** | LSP1 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 654346 | NM_001040078,XM | **LGALS9C** | galectin 9C | protein_coding | 1 | 1 | 2 | 2 | 1.162 |
| 654350 | gene-RPL9P25 | **RPL9P25** | ribosomal protein L9 pse | pseudogene | 1 | 1 | 2 | 2 | 1.131 |
| 654364 | NM_001018136,NR | **NME1-NME2** | NME1-NME2 readthroug | protein_coding | 107 | 119 | 108 | 120 | 1.114 |
| 654365 | gene-RPS27P3 | **RPS27P3** | ribosomal protein S27 ps | pseudogene | 38 | 42 | 39 | 43 | 1.123 |
| 654369 | gene-RPL37P5 | **RPL37P5** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654370 | gene-RPL7AP3 | **RPL7AP3** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654371 | gene-RPS15AP4 | **RPS15AP4** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654381 | gene-RPL7P5 | **RPL7P5** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654382 | gene-RPL19P2 | **RPL19P2** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654385 | gene-RPL21P15 | **RPL21P15** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654388 | gene-RPL32P2 | **RPL32P2** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.141 |
| 654391 | gene-RPL31P7 | **RPL31P7** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654392 | gene-RPL39P4 | **RPL39P4** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654412 | NR_026821 | **FAM138B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 654427 | gene-PCNPP1 | **PCNPP1** | PEST containing nuclear | pseudogene | 0 | 1 | 1 | 2 | 1.249 |
| 654429 | NM_001039029,NM | **LRTM2** | leucine rich repeats and | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654433 | NR_015377,NR_047 | **PAX8-AS1** | PAX8 antisense RNA 1 | lncRNA | 36 | 37 | 37 | 38 | 1.040 |
| 654434 | NR_027058 | **SNHG20** | small nucleolar RNA hos | lncRNA | 18 | 17 | 19 | 18 | 0.956 |
| 654463 | NM_001039112,XM | **FER1L6** | fer-1 like family member | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 654466 | NR_003670 | **FGF7P3** | fibroblast growth factor 7 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.104 |
| 654480 | gene-ATP5MC2P4 | **ATP5MC2P4** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654483 | NM_001039182,NM | **BOLA2B** | bolA family member 2B | protein_coding | 218 | 238 | 219 | 239 | 1.089 |
| 654484 | gene-ATP5MFP5 | **ATP5MFP5** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654485 | gene-ATP5MFP4 | **ATP5MFP4** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654499 | NR_145444 | **FAM30C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 654500 | gene-H2AZ2P1 | **H2AZ2P1** | H2AZ2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654502 | NM_001042705,NM | **IQCJ** | IQ motif containing J | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654503 | gene-HMGB1P9 | **HMGB1P9** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 0.969 |
| 654505 | gene-H3P38 | **H3P38** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654506 | gene-RPSAP7 | **RPSAP7** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 654780 | NR_147175 | **LOC654780** | splicing factor proline/gl | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 654790 | NM_001102566,XM | **PCP4L1** | Purkinje cell protein 4 lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 654816 | NR_003186 | **NCF1B** | neutrophil cytosolic facto | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 654817 | NR_003187 | **NCF1C** | neutrophil cytosolic facto | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 654835 | NR_026822 | **FAM138C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 654841 | NR_102371 | **MFF-DT** | MFF divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 0.940 |
| 664611 | gene-H3P37 | **H3P37** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 664612 | NR_030256,rna-MIR | **MIR539** | microRNA 539 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664613 | NR_030257,rna-MIR | **MIR544A** | microRNA 544a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664614 | NR_030258,rna-MIR | **MIR545** | microRNA 545 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664615 | NR_030266,rna-MIR | **MIR376A2** | microRNA 376a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664616 | NR_030267,rna-MIR | **MIR487B** | microRNA 487b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664617 | NR_030399,rna-MIR | **MIR542** | microRNA 542 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 664618 | NR_073415 | **HSP90AB4P** | heat shock protein 90 alp | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 664701 | NR_036455 | **ZNF826P** | zinc finger protein 826, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 664709 | NR_002944 | **HNRNPA1P10** | heterogeneous nuclear r | transcribed_pseu | 38 | 39 | 39 | 40 | 1.036 |
| 664721 | gene-HNRNPA1P27 | **HNRNPA1P27** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.096 |
| 664722 | gene-HNRNPA1P26 | **HNRNPA1P26** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.043 |
| 677679 | NR_002998 | **SCARNA3** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.002 |
| 677681 | NR_002999 | **SCARNA20** | small Cajal body-specific | guide_RNA | 2 | 1 | 3 | 2 | 0.611 |
| 677762 | gene-LOC677762 | **LOC677762** | Sin3A associated protein | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 677763 | NR_003000 | **SCARNA21** | small Cajal body-specific | guide_RNA | 0 | 1 | 1 | 2 | 1.877 |
| 677765 | NR_003139 | **SCARNA18** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.352 |
| 677766 | NR_003023 | **SCARNA2** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 0.764 |
| 677767 | NR_003001 | **SCARNA7** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 677768 | NR_003002 | **SCARNA13** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.001 |
| 677769 | NR_003003 | **SCARNA17** | small Cajal body-specific | guide_RNA | 7 | 11 | 8 | 12 | 1.552 |
| 677770 | NR_003004 | **SCARNA22** | small Cajal body-specific | guide_RNA | 14 | 17 | 15 | 18 | 1.183 |
| 677771 | NR_003005 | **SCARNA4** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.389 |
| 677772 | NR_003006 | **SCARNA6** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.401 |
| 677773 | NR_003007 | **SCARNA23** | small Cajal body-specific | guide_RNA | 4 | 2 | 5 | 3 | 0.622 |
| 677774 | NR_002997 | **SCARNA1** | small Cajal body-specific | guide_RNA | 1 | 0 | 2 | 1 | 0.750 |
| 677775 | NR_003008 | **SCARNA5** | small Cajal body-specific | guide_RNA | 0 | 1 | 1 | 2 | 1.422 |
| 677776 | NR_003009 | **SCARNA8** | small Cajal body-specific | guide_RNA | 1 | 2 | 2 | 3 | 1.697 |
| 677777 | NR_003010 | **SCARNA12** | small Cajal body-specific | guide_RNA | 12 | 9 | 13 | 10 | 0.794 |
| 677778 | NR_003011 | **SCARNA15** | small Cajal body-specific | guide_RNA | 2 | 2 | 3 | 3 | 1.017 |
| 677779 | NR_026767 | **LINC00488** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677780 | NR_003012 | **SCARNA11** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.312 |
| 677781 | NR_003013 | **SCARNA16** | small Cajal body-specific | guide_RNA | 0 | 3 | 1 | 4 | 2.861 |
| 677784 | NR_026823 | **FAM138D** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677792 | NR_003026 | **SNORA1** | small nucleolar RNA, H/ | snoRNA | 5 | 6 | 6 | 7 | 1.078 |
| 677793 | NR_002950 | **SNORA2A** | small nucleolar RNA, H/ | snoRNA | 0 | 4 | 1 | 5 | 3.585 |
| 677794 | NR_002951 | **SNORA2B** | small nucleolar RNA, H/ | snoRNA | 4 | 1 | 5 | 2 | 0.509 |
| 677795 | NR_002990 | **SNORA5B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.173 |
| 677796 | NR_002991 | **SNORA5C** | small nucleolar RNA, H/ | snoRNA | 1 | 3 | 2 | 4 | 1.759 |
| 677797 | NR_002992 | **SNORA7B** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.879 |
| 677798 | NR_002952 | **SNORA9** | small nucleolar RNA, H/ | snoRNA | 4 | 4 | 5 | 5 | 1.034 |
| 677799 | NR_002953 | **SNORA11** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.719 |
| 677800 | NR_002954 | **SNORA12** | small nucleolar RNA, H/ | snoRNA | 2 | 1 | 3 | 2 | 0.936 |
| 677801 | NR_002955 | **SNORA14A** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 2.170 |
| 677802 | NR_002956 | **SNORA14B** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.935 |
| 677803 | NR_002957 | **SNORA15** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.652 |
| 677804 | NR_002958 | **SNORA17A** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.007 |
| 677805 | NR_002959 | **SNORA18** | small nucleolar RNA, H/ | snoRNA | 27 | 26 | 28 | 27 | 0.968 |
| 677806 | NR_002960 | **SNORA20** | small nucleolar RNA, H/ | snoRNA | 3 | 4 | 4 | 5 | 1.094 |
| 677807 | NR_002961 | **SNORA22** | small nucleolar RNA, H/ | snoRNA | 0 | 2 | 1 | 3 | 2.747 |
| 677808 | NR_002962 | **SNORA23** | small nucleolar RNA, H/ | snoRNA | 5 | 5 | 6 | 6 | 0.967 |
| 677809 | NR_002963 | **SNORA24** | small nucleolar RNA, H/ | snoRNA | 10 | 9 | 11 | 10 | 0.905 |
| 677810 | NR_003016 | **SNORA26** | small nucleolar RNA, H/ | snoRNA | 3 | 2 | 4 | 3 | 0.935 |
| 677811 | NR_002964 | **SNORA28** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.557 |
| 677812 | NR_002965 | **SNORA29** | small nucleolar RNA, H/ | snoRNA | 1 | 2 | 2 | 3 | 1.546 |
| 677813 | NR_002966 | **SNORA30** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.670 |
| 677814 | NR_002967 | **SNORA31** | small nucleolar RNA, H/ | snoRNA | 2 | 1 | 3 | 2 | 0.953 |
| 677815 | NR_002968 | **SNORA2C** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.895 |
| 677816 | NR_002993 | **SNORA35** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677817 | NR_002969 | **SNORA36A** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.070 |
| 677818 | NR_002994 | **SNORA36B** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.401 |
| 677819 | NR_002970 | **SNORA37** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.729 |
| 677820 | NR_002971 | **SNORA38** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677821 | NR_002972 | **SNORA71E** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.444 |
| 677822 | NR_002973 | **SNORA40** | small nucleolar RNA, H/ | snoRNA | 100 | 80 | 101 | 81 | 0.804 |
| 677823 | NR_002974 | **SNORA80E** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.829 |
| 677824 | NR_002975 | **SNORA17B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677825 | NR_002976 | **SNORA44** | small nucleolar RNA, H/ | snoRNA | 4 | 4 | 5 | 5 | 0.991 |
| 677826 | NR_002977 | **SNORA3B** | small nucleolar RNA, H/ | snoRNA | 3 | 4 | 4 | 5 | 1.266 |
| 677827 | NR_002978 | **SNORA46** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.746 |
| 677828 | NR_003014 | **SNORA47** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 677829 | NR_002979 | **SNORA49** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.366 |
| 677830 | NR_002980 | **SNORA50A** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.841 |
| 677831 | NR_002981 | **SNORA51** | small nucleolar RNA, H/ | snoRNA | 3 | 5 | 4 | 6 | 1.523 |
| 677832 | NR_003015 | **SNORA53** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.725 |
| 677833 | NR_002982 | **SNORA54** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.943 |
| 677834 | NR_002983 | **SNORA55** | small nucleolar RNA, H/ | snoRNA | 5 | 3 | 6 | 4 | 0.642 |
| 677835 | NR_002984 | **SNORA56** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.010 |
| 677836 | NR_002985 | **SNORA58** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 1.436 |
| 677837 | NR_002986 | **SNORA60** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.611 |
| 677838 | NR_002987 | **SNORA61** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.842 |
| 677839 | NR_003017 | **SNORA71C** | small nucleolar RNA, H/ | snoRNA | 7 | 4 | 8 | 5 | 0.648 |
| 677840 | NR_003018 | **SNORA71D** | small nucleolar RNA, H/ | snoRNA | 4 | 3 | 5 | 4 | 0.724 |
| 677841 | NR_002988 | **SNORA74B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.246 |
| 677842 | NR_002995 | **SNORA50C** | small nucleolar RNA, H/ | snoRNA | 44 | 42 | 45 | 43 | 0.950 |
| 677843 | NR_003019 | **SNORA77** | small nucleolar RNA, H/ | snoRNA | 3 | 3 | 4 | 4 | 1.094 |
| 677844 | NR_003020 | **SNORA78** | small nucleolar RNA, H/ | snoRNA | 2 | 3 | 3 | 4 | 1.676 |
| 677845 | NR_003021 | **SNORA79** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.493 |
| 677846 | NR_002996 | **SNORA80A** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.739 |
| 677847 | NR_002989 | **SNORA81** | small nucleolar RNA, H/ | snoRNA | 7 | 5 | 8 | 6 | 0.804 |
| 677848 | NR_004395 | **SNORD1A** | small nucleolar RNA, C/I | snoRNA | 4 | 3 | 5 | 4 | 0.749 |
| 677849 | NR_004396 | **SNORD1B** | small nucleolar RNA, C/I | snoRNA | 3 | 3 | 4 | 4 | 1.053 |
| 677850 | NR_004397 | **SNORD1C** | small nucleolar RNA, C/I | snoRNA | 5 | 5 | 6 | 6 | 1.014 |
| 677880 | gene-THEM4P1 | **THEM4P1** | thioesterase superfamily | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 677882 | NR_003022 | **SNORA59B** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.918 |
| 677883 | gene-CHTF8P1 | **CHTF8P1** | chromosome transmissio | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 677885 | NR_003025 | **SNORA59A** | small nucleolar RNA, H/ | snoRNA | 2 | 1 | 3 | 2 | 0.894 |
| 678655 | NR_015382 | **CD27-AS1** | CD27 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.105 |
| 678656 | gene-ZRF1PS | **ZRF1PS** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 684959 | NR_003028 | **SNORA25** | small nucleolar RNA, H/ | snoRNA | 6 | 9 | 7 | 10 | 1.462 |
| 692053 | NR_003029 | **SNORD9** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.887 |
| 692057 | NR_003030 | **SNORD12** | small nucleolar RNA, C/I | snoRNA | 8 | 6 | 9 | 7 | 0.789 |
| 692058 | NR_003031 | **SNORD11** | small nucleolar RNA, C/I | snoRNA | 3 | 3 | 4 | 4 | 0.938 |
| 692063 | NR_003032 | **SNORA32** | small nucleolar RNA, H/ | snoRNA | 16 | 17 | 17 | 18 | 1.043 |
| 692072 | NR_003033 | **SNORD5** | small nucleolar RNA, C/I | snoRNA | 20 | 19 | 21 | 20 | 0.933 |
| 692073 | NR_003035 | **SNORA16A** | small nucleolar RNA, H/ | snoRNA | 13 | 11 | 14 | 12 | 0.858 |
| 692075 | NR_003036 | **SNORD6** | small nucleolar RNA, C/I | snoRNA | 7 | 5 | 8 | 6 | 0.734 |
| 692076 | NR_003037 | **SNORD7** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692084 | NR_003041 | **SNORD13** | small nucleolar RNA, C/I | snoRNA | 1 | 2 | 2 | 3 | 1.318 |
| 692085 | NR_003042 | **SNORD45C** | small nucleolar RNA, C/I | snoRNA | 10 | 3 | 11 | 4 | 0.362 |
| 692086 | NR_003045 | **SNORD17** | small nucleolar RNA, C/I | snoRNA | 86 | 71 | 87 | 72 | 0.828 |
| 692087 | NR_003043 | **SNORD49B** | small nucleolar RNA, C/I | snoRNA | 4 | 3 | 5 | 4 | 0.836 |
| 692088 | NR_003044 | **SNORD50B** | small nucleolar RNA, C/I | snoRNA | 25 | 19 | 26 | 20 | 0.749 |
| 692089 | NR_003047 | **SNORD19** | small nucleolar RNA, C/I | snoRNA | 4 | 2 | 5 | 3 | 0.523 |
| 692090 | NR_003046 | **SNORD59B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.961 |
| 692091 | NR_003048 | **SNORD23** | small nucleolar RNA, C/I | snoRNA | 37 | 49 | 38 | 50 | 1.330 |
| 692092 | NR_003049 | **SNORD32B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692093 | NR_003050 | **SNORD62B** | small nucleolar RNA, C/I | snoRNA | 8 | 11 | 9 | 12 | 1.267 |
| 692094 | NM_001044264 | **MSMP** | microseminoprotein, pros | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 692099 | NR_024241 | **FAM86DP** | family with sequence sim | transcribed_pseu | 3 | 3 | 4 | 4 | 1.103 |
| 692106 | NR_003054 | **SNORD65** | small nucleolar RNA, C/I | snoRNA | 4 | 6 | 5 | 7 | 1.289 |
| 692107 | NR_003055 | **SNORD66** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.554 |
| 692108 | NR_003056 | **SNORD67** | small nucleolar RNA, C/I | snoRNA | 3 | 4 | 4 | 5 | 1.177 |
| 692109 | NR_003057 | **SNORD69** | small nucleolar RNA, C/I | snoRNA | 11 | 5 | 12 | 6 | 0.502 |
| 692110 | NR_003058 | **SNORD70** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.412 |
| 692111 | NR_003059 | **SNORD71** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.801 |
| 692146 | gene-RPS26P4 | **RPS26P4** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 692147 | gene-HMGB1P8 | **HMGB1P8** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 692148 | NR_004387 | **SCARNA10** | small Cajal body-specific | guide_RNA | 2 | 2 | 3 | 3 | 0.977 |
| 692149 | NR_004388 | **SCARNA14** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 0.724 |
| 692157 | NR_004389 | **SNORA16B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692158 | NR_004390 | **SNORA57** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.938 |
| 692159 | NR_146770 | **TAMALIN-AS1** | TAMALIN antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692195 | NR_003941 | **SNORD75** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 0.987 |
| 692196 | NR_003942 | **SNORD76** | small nucleolar RNA, C/I | snoRNA | 53 | 50 | 54 | 51 | 0.944 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 692197 | NR_003943 | **SNORD77** | small nucleolar RNA, C/I | snoRNA | 9 | 9 | 10 | 10 | 1.026 |
| 692198 | NR_003944 | **SNORD78** | small nucleolar RNA, C/I | snoRNA | 10 | 10 | 11 | 11 | 1.032 |
| 692199 | NR_003065 | **SNORD84** | small nucleolar RNA, C/I | snoRNA | 17 | 16 | 18 | 17 | 0.939 |
| 692200 | NR_003066 | **SNORD103C** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.345 |
| 692201 | NR_004399 | **SNORD86** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692202 | NR_003067 | **SNORD88A** | small nucleolar RNA, C/I | snoRNA | 2 | 3 | 3 | 4 | 1.309 |
| 692203 | NR_003068 | **SNORD88B** | small nucleolar RNA, C/I | snoRNA | 58 | 45 | 59 | 46 | 0.782 |
| 692204 | NR_003069 | **SNORD88C** | small nucleolar RNA, C/I | snoRNA | 8 | 6 | 9 | 7 | 0.846 |
| 692205 | NR_003070 | **SNORD89** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.147 |
| 692206 | NR_003071 | **SNORD90** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.737 |
| 692207 | NR_003072 | **SNORD91A** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.441 |
| 692208 | NR_003073 | **SNORD91B** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 2.050 |
| 692209 | NR_003074 | **SNORD92** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.616 |
| 692210 | NR_003075 | **SNORD93** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.719 |
| 692211 | NR_003076 | **SNORD98** | small nucleolar RNA, C/I | snoRNA | 4 | 4 | 5 | 5 | 0.964 |
| 692212 | NR_003077 | **SNORD99** | small nucleolar RNA, C/I | snoRNA | 7 | 7 | 8 | 8 | 1.072 |
| 692213 | NR_003078 | **SNORD110** | small nucleolar RNA, C/I | snoRNA | 15 | 24 | 16 | 25 | 1.547 |
| 692214 | NR_003079 | **SNORD111** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.692 |
| 692215 | NR_003080 | **SNORD112** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692223 | NR_004403 | **SNORD97** | small nucleolar RNA, C/I | snoRNA | 2 | 3 | 3 | 4 | 1.396 |
| 692225 | NR_004378 | **SNORD94** | small nucleolar RNA, C/I | snoRNA | 2 | 3 | 3 | 4 | 1.498 |
| 692226 | NR_004379 | **SNORD96B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692227 | NR_004380 | **SNORD104** | small nucleolar RNA, C/I | snoRNA | 31 | 50 | 32 | 51 | 1.592 |
| 692229 | NR_004381 | **SNORD105** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 0.866 |
| 692231 | gene-RHEBP3 | **RHEBP3** | RHEB pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 692233 | NR_003140 | **SNORD117** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 0.853 |
| 692234 | NR_004054 | **SNORD103A** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 0.887 |
| 692235 | NR_033295 | **SNORD103B** | small nucleolar RNA, C/I | snoRNA | 5 | 5 | 6 | 6 | 1.041 |
| 692246 | gene-LOC692246 | **LOC692246** | cytochrome c oxidase as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 692247 | NR_147607,NR_147 | **LMNTD2-AS1** | LMNTD2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 692312 | NM_001040664,NM | **PPAN-P2RY11** | PPAN-P2RY11 readthrou | protein_coding | 60 | 68 | 61 | 69 | 1.133 |
| 693120 | NR_030361,rna-MIR | **MIR33B** | microRNA 33b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693121 | NR_030389,rna-MIR | **MIR411** | microRNA 411 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693122 | NR_030398,rna-MIR | **MIR421** | microRNA 421 | miRNA | 2 | 0 | 3 | 1 | 0.437 |
| 693123 | NR_030387,rna-MIR | **MIR449B** | microRNA 449b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693124 | NR_030241,rna-MIR | **MIR532** | microRNA 532 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693125 | NR_030312,rna-MIR | **MIR548A1** | microRNA 548a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693126 | NR_030317,rna-MIR | **MIR548A2** | microRNA 548a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693127 | NR_030330,rna-MIR | **MIR548A3** | microRNA 548a-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693128 | NR_030315,rna-MIR | **MIR548B** | microRNA 548b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693129 | NR_030347,rna-MIR | **MIR548C** | microRNA 548c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693130 | NR_030382,rna-MIR | **MIR548D1** | microRNA 548d-1 | miRNA | 1 | 1 | 2 | 2 | 0.881 |
| 693131 | NR_030385,rna-MIR | **MIR548D2** | microRNA 548d-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693132 | NR_030393,rna-MIR | **MIR549A** | microRNA 549a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693133 | NR_030319,rna-MIR | **MIR550A1** | microRNA 550a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693134 | NR_030320,rna-MIR | **MIR550A2** | microRNA 550a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693135 | NR_030277,rna-MIR | **MIR551A** | microRNA 551a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693136 | NR_030294,rna-MIR | **MIR551B** | microRNA 551b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693137 | NR_030278,rna-MIR | **MIR552** | microRNA 552 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693138 | NR_030279,rna-MIR | **MIR553** | microRNA 553 | miRNA | 1 | 0 | 2 | 1 | 0.500 |
| 693139 | NR_030280,rna-MIR | **MIR554** | microRNA 554 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693140 | NR_030282,rna-MIR | **MIR555** | microRNA 555 | miRNA | 0 | 0 | 1 | 1 | 0.700 |
| 693141 | NR_030283,rna-MIR | **MIR556** | microRNA 556 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693142 | NR_030284,rna-MIR | **MIR557** | microRNA 557 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693143 | NR_030285,rna-MIR | **MIR558** | microRNA 558 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693144 | NR_030286,rna-MIR | **MIR559** | microRNA 559 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693146 | NR_030287,rna-MIR | **MIR561** | microRNA 561 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693147 | NR_030288,rna-MIR | **MIR562** | microRNA 562 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693148 | NR_030289,rna-MIR | **MIR563** | microRNA 563 | miRNA | 1 | 1 | 2 | 2 | 0.980 |
| 693149 | NR_030290,rna-MIR | **MIR564** | microRNA 564 | miRNA | 1 | 0 | 2 | 1 | 0.804 |
| 693152 | NR_030292,rna-MIR | **MIR567** | microRNA 567 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693153 | NR_030293,rna-MIR | **MIR568** | microRNA 568 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693154 | NR_030295,rna-MIR | **MIR569** | microRNA 569 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693155 | NR_030296,rna-MIR | **MIR570** | microRNA 570 | miRNA | 5 | 3 | 6 | 4 | 0.616 |
| 693156 | NR_030297,rna-MIR | **MIR571** | microRNA 571 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693157 | NR_030298,rna-MIR | **MIR572** | microRNA 572 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693158 | NR_030299,rna-MIR | **MIR573** | microRNA 573 | miRNA | 2 | 1 | 3 | 2 | 0.570 |
| 693159 | NR_030300,rna-MIR | **MIR574** | microRNA 574 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693160 | NR_030301,rna-MIR | **MIR575** | microRNA 575 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693161 | NR_030302,rna-MIR | **MIR576** | microRNA 576 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693162 | NR_030303,rna-MIR | **MIR577** | microRNA 577 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693163 | NR_030304,rna-MIR | **MIR578** | microRNA 578 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693164 | NR_030305,rna-MIR | **MIR579** | microRNA 579 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693165 | NR_030306,rna-MIR | **MIR580** | microRNA 580 | miRNA | 0 | 0 | 1 | 1 | 0.892 |
| 693166 | NR_030307,rna-MIR | **MIR581** | microRNA 581 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693167 | NR_030308,rna-MIR | **MIR582** | microRNA 582 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693168 | NR_030309,rna-MIR | **MIR583** | microRNA 583 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693169 | NR_030310,rna-MIR | **MIR584** | microRNA 584 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693170 | NR_030311,rna-MIR | **MIR585** | microRNA 585 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693171 | NR_030313,rna-MIR | **MIR586** | microRNA 586 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693172 | NR_030314,rna-MIR | **MIR587** | microRNA 587 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693173 | NR_030316,rna-MIR | **MIR588** | microRNA 588 | miRNA | 1 | 0 | 2 | 1 | 0.665 |
| 693174 | NR_030318,rna-MIR | **MIR589** | microRNA 589 | miRNA | 2 | 1 | 3 | 2 | 0.535 |
| 693175 | NR_030321,rna-MIR | **MIR590** | microRNA 590 | miRNA | 2 | 3 | 3 | 4 | 1.591 |
| 693176 | NR_030322,rna-MIR | **MIR591** | microRNA 591 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693177 | NR_030323,rna-MIR | **MIR592** | microRNA 592 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693178 | NR_030324,rna-MIR | **MIR593** | microRNA 593 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693180 | NR_030325,rna-MIR | **MIR595** | microRNA 595 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693181 | NR_030326,rna-MIR | **MIR596** | microRNA 596 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693182 | NR_030327,rna-MIR | **MIR597** | microRNA 597 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693183 | NR_030328,rna-MIR | **MIR598** | microRNA 598 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693184 | NR_030329,rna-MIR | **MIR599** | microRNA 599 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693185 | NR_030331,rna-MIR | **MIR600** | microRNA 600 | miRNA | 0 | 0 | 1 | 1 | 0.995 |
| 693186 | NR_030332,rna-MIR | **MIR601** | microRNA 601 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693187 | NR_030333,rna-MIR | **MIR602** | microRNA 602 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693188 | NR_030334,rna-MIR | **MIR603** | microRNA 603 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693189 | NR_030335,rna-MIR | **MIR604** | microRNA 604 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693190 | NR_030336,rna-MIR | **MIR605** | microRNA 605 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693191 | NR_030337,rna-MIR | **MIR606** | microRNA 606 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693192 | NR_030338,rna-MIR | **MIR607** | microRNA 607 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693193 | NR_030339,rna-MIR | **MIR608** | microRNA 608 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693194 | NR_030340,rna-MIR | **MIR609** | microRNA 609 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693195 | NR_030341,rna-MIR | **MIR610** | microRNA 610 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693196 | NR_030342,rna-MIR | **MIR611** | microRNA 611 | miRNA | 1 | 3 | 2 | 4 | 1.878 |
| 693197 | NR_030343,rna-MIR | **MIR612** | microRNA 612 | miRNA | 0 | 0 | 1 | 1 | 0.999 |
| 693198 | NR_030344,rna-MIR | **MIR613** | microRNA 613 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693199 | NR_030345,rna-MIR | **MIR614** | microRNA 614 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693200 | NR_030753,rna-MIR | **MIR615** | microRNA 615 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693201 | NR_030346,rna-MIR | **MIR616** | microRNA 616 | miRNA | 0 | 1 | 1 | 2 | 1.174 |
| 693202 | NR_030348,rna-MIR | **MIR617** | microRNA 617 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693203 | NR_030349,rna-MIR | **MIR618** | microRNA 618 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693204 | NR_030350,rna-MIR | **MIR619** | microRNA 619 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693205 | NR_030351,rna-MIR | **MIR620** | microRNA 620 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693206 | NR_030352,rna-MIR | **MIR621** | microRNA 621 | miRNA | 0 | 0 | 1 | 1 | 0.997 |
| 693207 | NR_030754,rna-MIR | **MIR622** | microRNA 622 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693208 | NR_030353,rna-MIR | **MIR623** | microRNA 623 | miRNA | 0 | 0 | 1 | 1 | 0.701 |
| 693209 | NR_030354,rna-MIR | **MIR624** | microRNA 624 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693210 | NR_030355,rna-MIR | **MIR625** | microRNA 625 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693211 | NR_030356,rna-MIR | **MIR626** | microRNA 626 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693212 | NR_030357,rna-MIR | **MIR627** | microRNA 627 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693213 | NR_030358,rna-MIR | **MIR628** | microRNA 628 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693214 | NR_030714,rna-MIR | **MIR629** | microRNA 629 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693215 | NR_030359,rna-MIR | **MIR630** | microRNA 630 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693216 | NR_030360,rna-MIR | **MIR631** | microRNA 631 | miRNA | 0 | 0 | 1 | 1 | 0.923 |
| 693217 | NR_030362,rna-MIR | **MIR632** | microRNA 632 | miRNA | 0 | 0 | 1 | 1 | 1.090 |
| 693218 | NR_030363,rna-MIR | **MIR633** | microRNA 633 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 693219 | NR_030364,ma-MIF | **MIR634** | microRNA 634 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693220 | NR_030365,ma-MIF | **MIR635** | microRNA 635 | miRNA | 11 | 7 | 12 | 8 | 0.635 |
| 693221 | NR_030366,ma-MIF | **MIR636** | microRNA 636 | miRNA | 3 | 1 | 4 | 2 | 0.448 |
| 693222 | NR_030367,ma-MIF | **MIR637** | microRNA 637 | miRNA | 0 | 0 | 1 | 1 | 1.059 |
| 693223 | NR_030368,ma-MIF | **MIR638** | microRNA 638 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693224 | NR_030369,ma-MIF | **MIR639** | microRNA 639 | miRNA | 0 | 0 | 1 | 1 | 1.076 |
| 693225 | NR_030370,ma-MIF | **MIR640** | microRNA 640 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693226 | NR_030371,ma-MIF | **MIR641** | microRNA 641 | miRNA | 0 | 0 | 1 | 1 | 1.037 |
| 693227 | NR_030372,ma-MIF | **MIR642A** | microRNA 642a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693228 | NR_030373,ma-MIF | **MIR643** | microRNA 643 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693229 | NR_030374,ma-MIF | **MIR644A** | microRNA 644a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693230 | NR_030375,ma-MIF | **MIR645** | microRNA 645 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693231 | NR_030376,ma-MIF | **MIR646** | microRNA 646 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693232 | NR_030377,ma-MIF | **MIR647** | microRNA 647 | miRNA | 2 | 2 | 3 | 3 | 1.215 |
| 693233 | NR_030378,ma-MIF | **MIR648** | microRNA 648 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693234 | NR_030379,ma-MIF | **MIR649** | microRNA 649 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 693235 | NR_030281,ma-MIF | **MIR92B** | microRNA 92b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 723778 | NR_030755,ma-MIF | **MIR650** | microRNA 650 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 723779 | NR_030380,ma-MIF | **MIR651** | microRNA 651 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 723788 | NR_148965 | **MIG7** | mig-7 | lncRNA | 0 | 0 | 1 | 1 | 1.124 |
| 723790 | NM_001040874 | **H2AC19** | H2A clustered histone 19 | protein_coding | 63 | 69 | 64 | 70 | 1.093 |
| 723809 | NR_027374 | **LHFPL3-AS2** | LHFPL3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 723961 | NM_001042376,NR | **INS-IGF2** | INS-IGF2 readthrough | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 723972 | NR_003144 | **ANP32AP1** | acidic nuclear phosphop | transcribed_pseu | 0 | 0 | 1 | 1 | 1.041 |
| 724022 | NR_030381,ma-MIF | **MIR652** | microRNA 652 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724023 | NR_030388,ma-MIF | **MIR653** | microRNA 653 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724024 | NR_030390,ma-MIF | **MIR654** | microRNA 654 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724025 | NR_030391,ma-MIF | **MIR655** | microRNA 655 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724026 | NR_030392,ma-MIF | **MIR656** | microRNA 656 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724027 | NR_030394,ma-MIF | **MIR657** | microRNA 657 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724028 | NR_030395,ma-MIF | **MIR658** | microRNA 658 | miRNA | 0 | 0 | 1 | 1 | 1.007 |
| 724029 | NR_030396,ma-MIF | **MIR659** | microRNA 659 | miRNA | 0 | 0 | 1 | 1 | 1.163 |
| 724030 | NR_030397,ma-MIF | **MIR660** | microRNA 660 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724031 | NR_030383,ma-MIF | **MIR661** | microRNA 661 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724032 | NR_030384,ma-MIF | **MIR662** | microRNA 662 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724033 | NR_030386,ma-MIF | **MIR663A** | microRNA 663a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724034 | gene-CEND1P2 | **CEND1P2** | cell cycle exit and neuror | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724038 | gene-BDP1P | **BDP1P** | B double prime 1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724059 | gene-TMEM97P2 | **TMEM97P2** | transmembrane protein 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724060 | gene-LOC724060 | **LOC724060** | TRA2A pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724065 | gene-LOC724065 | **LOC724065** | chromosome 19 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724068 | NR_073421 | **DEFA11P** | defensin alpha 11, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 724084 | gene-LOC724084 | **LOC724084** | zinc finger protein 706 ps | pseudogene | 0 | 0 | 1 | 1 | 0.858 |
| 724085 | gene-LOC724085 | **LOC724085** | immediate early respons | pseudogene | 0 | 0 | 1 | 1 | 1.121 |
| 724087 | NR_046101 | **LINC01545** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 724101 | gene-SS18L2P2 | **SS18L2P2** | SS18 like 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724102 | NR_003141,NR_03 | **SNHG4** | small nucleolar RNA hos | lncRNA | 57 | 47 | 58 | 48 | 0.826 |
| 724104 | gene-LOC724104 | **LOC724104** | SH3 domain binding glut | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 724105 | gene-LOC724105 | **LOC724105** | cysteine rich transmemb | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727676 | NR_033294 | **SNORD118** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.730 |
| 727677 | NR_024393,NR_11 | **CASC8** | cancer susceptibility 8 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727681 | gene-LOC727681 | **LOC727681** | NSL1, MIND kinetochore | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727682 | NR_145449 | **TAB3-AS1** | TAB3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727684 | NR_167930,NR_16 | **C1orf195** | chromosome 1 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727699 | NR_033840 | **LINC00163** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727708 | NR_001290 | **SNORD116-19** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727709 | gene-LOC727709 | **LOC727709** | DNA damage regulated a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727713 | gene-METAP2P1 | **METAP2P1** | METAP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727736 | gene-SH3GL1P3 | **SH3GL1P3** | SH3 domain containing ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727747 | gene-RPL22P12 | **RPL22P12** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727751 | NR_102747,NR_10 | **LOC727751** | golgin A2 pseudogene | transcribed_pseu | 8 | 9 | 9 | 10 | 1.115 |
| 727758 | NR_033770,NR_16 | **ROCK1P1** | Rho associated coiled-cc | transcribed_pseu | 4 | 4 | 5 | 5 | 0.921 |
| 727768 | gene-TEKT4P1 | **TEKT4P1** | tektin 4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.084 |
| 727789 | gene-RWDD1P3 | **RWDD1P3** | RWD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727792 | gene-RPL31P31 | **RPL31P31** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 0.913 |
| 727795 | gene-HMGN2P5 | **HMGN2P5** | high mobility group nucl | pseudogene | 33 | 36 | 34 | 37 | 1.087 |
| 727800 | NM_031297 | **RNF208** | ring finger protein 208 | protein_coding | 0 | 1 | 1 | 2 | 1.314 |
| 727803 | gene-LOC727803 | **LOC727803** | RAN binding protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 727810 | gene-RPL21P17 | **RPL21P17** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727821 | gene-RPL21P45 | **RPL21P45** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727826 | gene-RPS11P5 | **RPS11P5** | ribosomal protein S11 ps | pseudogene | 3 | 1 | 4 | 2 | 0.545 |
| 727828 | gene-TRIM64DP | **TRIM64DP** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727830 | NM_001083124,XM | **SPATA31A3** | SPATA31 subfamily A m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727831 | gene-RPL13AP8 | **RPL13AP8** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.016 |
| 727832 | NM_001145004 | **GOLGA6L6** | golgin A6 family like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727833 | gene-IMPDH1P11 | **IMPDH1P11** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727835 | gene-RPL9P16 | **RPL9P16** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727837 | NM_001164417,NM | **SSX2B** | SSX family member 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727838 | gene-LOC727838 | **LOC727838** | cancer/testis antigen fam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727842 | gene-RBBP4P4 | **RBBP4P4** | RBBP4 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.037 |
| 727851 | NM_001164463,XM | **RGPD8** | RANBP2 like and GRIP ( | protein_coding | 1 | 1 | 2 | 2 | 0.935 |
| 727856 | NR_110561,NR_11 | **DDX11L16** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.977 |
| 727857 | NM_001164405 | **BHLHA9** | basic helix-loop-helix fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727865 | gene-RPL9P32 | **RPL9P32** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 727866 | NM_001099684,NM | **FAM156B** | family with sequence sim | protein_coding | 12 | 14 | 13 | 15 | 1.168 |
| 727874 | gene-WBP11P3 | **WBP11P3** | WBP11 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727879 | gene-C1DP4 | **C1DP4** | C1D nuclear receptor co | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 727884 | gene-LOC727884 | **LOC727884** | insulin like growth factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727896 | NR_026659 | **CHORDC1P4** | CHORDC1 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 0.995 |
| 727897 | NM_002458 | **MUC5B** | mucin 5B, oligomeric mu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727905 | NM_001113541,XM | **SPATA31A5** | SPATA31 subfamily A m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727909 | NM_001355476 | **GOLGA8Q** | golgin A8 family member | protein_coding | 21 | 17 | 22 | 18 | 0.821 |
| 727910 | NM_001164407 | **TLCD2** | TLC domain containing 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727914 | gene-BMS1P16 | **BMS1P16** | BMS1 pseudogene 16 | pseudogene | 1 | 1 | 2 | 2 | 0.869 |
| 727915 | NR_046012 | **AGBL1-AS1** | AGBL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727919 | gene-NDUFAF2P1 | **NDUFAF2P1** | NDUFAF2 pseudogene 1 | pseudogene | 1 | 2 | 2 | 3 | 1.263 |
| 727924 | NR_015416,NR_152 | **LINC02203** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727936 | NM_001080393,NR | **GXYLT2** | glucoside xylosyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727940 | NM_001099685 | **RHOXF2B** | Rhox homeobox family m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 727944 | NR_146436,NR_14 | **LINC01874** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727947 | gene-LOC727947 | **LOC727947** | ubiquinol-cytochrome c r | pseudogene | 0 | 1 | 1 | 2 | 1.280 |
| 727951 | gene-RPS3AP16 | **RPS3AP16** | RPS3A pseudogene 16 | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 727956 | NR_003265 | **SDHAP2** | succinate dehydrogenas | transcribed_pseu | 10 | 9 | 11 | 10 | 0.878 |
| 727957 | NM_001099280,NM | **MROH1** | maestro heat like repeat | protein_coding | 3 | 2 | 4 | 3 | 0.861 |
| 727964 | gene-C2orf69P1 | **C2orf69P1** | chromosome 2 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727970 | gene-RPS3AP43 | **RPS3AP43** | RPS3A pseudogene 43 | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 727978 | XR_002959671 | **LOC727978** | mucin-5AC-like | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 727980 | gene-LOC727980 | **LOC727980** | translocase of outer mito | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 727982 | NR_034134 | **LINC01249** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 727984 | gene-RPL17P22 | **RPL17P22** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727987 | gene-FAM207CP | **FAM207CP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 727991 | gene-SLC35E1P1 | **SLC35E1P1** | solute carrier family 35 m | pseudogene | 1 | 1 | 2 | 2 | 0.879 |
| 727993 | NR_134520 | **PDYN-AS1** | PDYN antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.828 |
| 727997 | gene-RPS12P9 | **RPS12P9** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728002 | gene-RPL15P17 | **RPL15P17** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.313 |
| 728005 | NR_165819 | **AGAP13P** | ArfGAP with GTPase dor | transcribed_pseu | 2 | 1 | 3 | 2 | 0.839 |
| 728010 | gene-RPL35P3 | **RPL35P3** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 0.735 |
| 728012 | NR_038384 | **MCHR2-AS1** | MCHR2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728015 | gene-RPS7P15 | **RPS7P15** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728019 | gene-HNRNPA1P67 | **HNRNPA1P67** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.959 |
| 728022 | gene-DUX4L14 | **DUX4L14** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728023 | gene-H2AZP3 | **H2AZP3** | H2A.Z histone pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.106 |
| 728024 | NR_003671 | **LOC728024** | chromosome X open rea | transcribed_pseu | 2 | 3 | 3 | 4 | 1.040 |
| 728034 | NR_146105,NR_14 | **BMS1P14** | BMS1 pseudogene 14 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.931 |
| 728036 | NM_001080137,XM | **CT47A10** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728039 | NR_027292 | **SSR4P1** | signal sequence recepto | transcribed_pseu | 2 | 1 | 3 | 2 | 0.895 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 728040 | NR_046377 | **LINC02499** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728042 | NM_001080138,XM | **CT47A9** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728045 | gene-PPBPP1 | **PPBPP1** | pro-platelet basic protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728047 | NM_001277308,XM | **GOLGA8O** | golgin A8 family member | protein_coding | 44 | 32 | 45 | 33 | 0.737 |
| 728049 | NM_001080139,XM | **CT47A8** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728056 | gene-IQSEC3P3 | **IQSEC3P3** | IQ motif and Sec7 domai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728062 | NM_001080141,XM | **CT47A6** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728064 | gene-CUBNP1 | **CUBNP1** | cubilin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728066 | NR_034169 | **FAM133DP** | family with sequence sim | transcribed_pseu | 10 | 9 | 11 | 10 | 0.849 |
| 728072 | NM_001080142,XM | **CT47A5** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728075 | NM_001080143,XM | **CT47A4** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 728081 | NR_033918 | **LINC00290** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728082 | NM_001080144,XM | **CT47A3** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 728084 | NR_038385 | **LINC02458** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728088 | gene-RPL15P18 | **RPL15P18** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 728090 | NM_001080145,XM | **CT47A2** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728095 | NR_109897 | **SLIT3-AS1** | SLIT3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728096 | NM_001080146,XM | **CT47A1** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728097 | gene-FAM8A2P | **FAM8A2P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728098 | gene-LOC728098 | **LOC728098** | mitogen-activated proteir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728113 | NM_001098845,NM | **ANXA8L1** | annexin A8 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.076 |
| 728115 | gene-SINHCAFP2 | **SINHCAFP2** | SINHCAF pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.169 |
| 728116 | NM_001145720 | **ZBTB8B** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728118 | NM_001099338,XM | **NUTM2A** | NUT family member 2A | protein_coding | 0 | 0 | 1 | 1 | 1.087 |
| 728121 | gene-CSPG4P12 | **CSPG4P12** | chondroitin sulfate prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728128 | gene-RPL7AP26 | **RPL7AP26** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728130 | NM_001009610,NM | **NUTM2D** | NUT family member 2D | protein_coding | 1 | 1 | 2 | 2 | 1.033 |
| 728131 | gene-RPS6P6 | **RPS6P6** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728132 | gene-TSPY9P | **TSPY9P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728134 | gene-RPL23AP18 | **RPL23AP18** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.090 |
| 728137 | NM_001077697,XM | **TSPY3** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728138 | gene-LOC728138 | **LOC728138** | KIAA2013 pseudogene | pseudogene | 1 | 1 | 2 | 2 | 0.970 |
| 728139 | gene-RPL7AP70 | **RPL7AP70** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.165 |
| 728143 | gene-CHCHD4P4 | **CHCHD4P4** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728157 | gene-ANKRD20A6P | **ANKRD20A6P** | ankyrin repeat domain 2( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728158 | NR_148989 | **LOC728158** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728162 | gene-ST13P11 | **ST13P11** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 728167 | gene-KRT8P31 | **KRT8P31** | keratin 8 pseudogene 31 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728169 | gene-DUX4L16 | **DUX4L16** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728170 | gene-HNRNPA1P50 | **HNRNPA1P50** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.929 |
| 728175 | NR_040108 | **LINC02363** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728178 | NR_168439,NR_168 | **LOC728178** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 728179 | gene-RPL7AP36 | **RPL7AP36** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728190 | NR_024397 | **NUTM2A-AS1** | NUTM2A antisense RNA | lncRNA | 18 | 14 | 19 | 15 | 0.796 |
| 728192 | NR_034119,NR_163 | **LINC00460** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728194 | NM_001099697,XM | **RSPH10B2** | radial spoke head 10 hor | protein_coding | 0 | 0 | 1 | 1 | 0.898 |
| 728195 | gene-FGF7P4 | **FGF7P4** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728196 | NR_147706 | **LOC728196** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728202 | gene-RPL36AP7 | **RPL36AP7** | ribosomal protein L36a p | pseudogene | 1 | 1 | 2 | 2 | 0.880 |
| 728207 | gene-RPL23AP75 | **RPL23AP75** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728215 | NM_001080396,XM | **FAM155A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728218 | NR_046091 | **FAM245A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.197 |
| 728224 | NM_031960 | **KRTAP4-8** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728226 | NM_001355479,XM | **GGTLC3** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728228 | NR_033917 | **LINC01433** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728229 | NM_001242313,XM | **TMEM191B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.125 |
| 728233 | NR_003563 | **PI4KAP1** | phosphatidylinositol 4-kir | transcribed_pseu | 2 | 2 | 3 | 3 | 1.105 |
| 728234 | gene-HMGN2P16 | **HMGN2P16** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728239 | NM_001098800,NM | **MAGED4** | MAGE family member D4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728244 | gene-RPS12P29 | **RPS12P29** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728248 | gene-ABCB10P3 | **ABCB10P3** | ABCB10 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728255 | NM_001257305 | **KRTAP1-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728262 | NR_146164 | **FAM157A** | family with sequence sim | lncRNA | 0 | 1 | 1 | 2 | 1.074 |
| 728263 | gene-ALG1L7P | **ALG1L7P** | ALG1 like 7, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 728264 | NR_105059,NR_105 | **CARMN** | cardiac mesoderm enhar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728269 | NM_001080790,XM | **MAGEA9B** | MAGE family member A9 | protein_coding | 0 | 0 | 1 | 1 | 0.974 |
| 728276 | NM_001256720 | **CLEC19A** | C-type lectin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728279 | NM_033032 | **KRTAP2-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728290 | NR_132411 | **LINC02027** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728294 | NM_001287249,NM | **D2HGDH** | D-2-hydroxyglutarate del | protein_coding | 3 | 3 | 4 | 4 | 0.989 |
| 728299 | NM_001099219 | **KRTAP19-8** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728300 | gene-KRT18P5 | **KRT18P5** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 0.949 |
| 728310 | NM_001365371 | **GOLGA6L7** | golgin A6 family like 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728311 | gene-RPL26P24 | **RPL26P24** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728315 | gene-RPL7AP31 | **RPL7AP31** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.160 |
| 728318 | NM_001190460 | **KRTAP9-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728323 | NR_130699,NR_130 | **LINC01881** | long intergenic non-prote | lncRNA | 6 | 6 | 7 | 7 | 0.927 |
| 728324 | gene-CHCHD2P2 | **CHCHD2P2** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 1 | 1 | 2 | 1.391 |
| 728325 | gene-HMGN1P21 | **HMGN1P21** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.096 |
| 728327 | NR_148990 | **LINC02667** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728333 | gene-NCOA4P2 | **NCOA4P2** | nuclear receptor coactiva | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728339 | NR_149038,NR_149 | **FRG1-DT** | FRG1 divergent transcrip | lncRNA | 3 | 4 | 4 | 5 | 1.097 |
| 728340 | NM_001098728,NM | **GTF2H2C** | GTF2H2 family member | protein_coding | 64 | 55 | 65 | 56 | 0.862 |
| 728342 | NR_046089 | **LINC00992** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728343 | NM_001099686 | **NXF2B** | nuclear RNA export factc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728344 | gene-GLRX3P2 | **GLRX3P2** | glutaredoxin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728350 | gene-EIF2S2P4 | **EIF2S2P4** | eukaryotic translation init | pseudogene | 4 | 3 | 5 | 4 | 0.839 |
| 728358 | NM_001042500,NM | **DEFA1B** | defensin alpha 1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728361 | NM_001302757,XM | **OVOL3** | ovo like zinc finger 3 | protein_coding | 0 | 1 | 1 | 2 | 1.593 |
| 728366 | gene-BCLAF1P1 | **BCLAF1P1** | BCL2 associated transcri | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728369 | NM_001242327 | **USP17L24** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728373 | NM_001242326 | **USP17L25** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728374 | gene-RPL9P21 | **RPL9P21** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728376 | gene-LOC728376 | **LOC728376** | zinc finger protein 430 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728377 | NR_033942 | **ARHGEF34P** | Rho guanine nucleotide | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728378 | NM_001099771,XM | **POTEF** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728379 | NM_001242328 | **USP17L26** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728380 | gene-RPL7P26 | **RPL7P26** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 728381 | gene-NRBF2P4 | **NRBF2P4** | nuclear receptor binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728386 | NM_001242329 | **USP17L5** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728388 | gene-DNM1P30 | **DNM1P30** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728392 | NM_001162371 | **LOC728392** | uncharacterized LOC728 | protein_coding | 0 | 0 | 1 | 1 | 0.716 |
| 728393 | NM_001242330 | **USP17L27** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728395 | NM_001164471,XM | **TSPY4** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728400 | NM_001242331 | **USP17L28** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728402 | NR_027338 | **TPI1P3** | triosephosphate isomera | transcribed_pseu | 0 | 0 | 1 | 1 | 0.899 |
| 728403 | NM_001243721,XM | **TSPY8** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728405 | NM_001242332 | **USP17L29** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728407 | NR_029388 | **PARGP1** | poly(ADP-ribose) glycoh | transcribed_pseu | 2 | 1 | 3 | 2 | 0.675 |
| 728409 | NR_024102 | **LINC01548** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728410 | gene-DUX4L2 | **DUX4L2** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728411 | NR_027026,NR_027 | **GUSBP1** | GUSB pseudogene 1 | transcribed_pseu | 39 | 34 | 40 | 35 | 0.883 |
| 728416 | gene-LOC728416 | **LOC728416** | translation machinery as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728419 | NM_001256867 | **USP17L30** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728424 | gene-LOC728424 | **LOC728424** | hyperpolarization activate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728428 | gene-RPS15P1 | **RPS15P1** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 728430 | gene-FAM90A20P | **FAM90A20P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728431 | NR_038842 | **LINC01137** | long intergenic non-prote | lncRNA | 16 | 15 | 17 | 16 | 0.928 |
| 728432 | gene-ICE2P2 | **ICE2P2** | interactor of little elongat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728433 | gene-FGF7P7 | **FGF7P7** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728434 | NR_146878 | **LINC02871** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728441 | NM_001351304,XM | **GGT2** | gamma-glutamyltransfer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728447 | gene-TEX28P1 | **TEX28P1** | testis expressed 28 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728448 | NR_003929,NR_144 | **PPIEL** | peptidylprolyl isomerase | transcribed_pseu | 0 | 0 | 1 | 1 | 0.886 |
| 728450 | NR_110635 | **LINC00687** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728453 | gene-RPS28P6 | **RPS28P6** | ribosomal protein S28 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 728458 | NM_001048181 | **OPN1MW2** | opsin 1, medium wave s | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728463 | NR_046268 | **TGFB2-AS1** | TGFB2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728464 | NM_001123364,NM | **METTL24** | methyltransferase like 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728467 | gene-SNX5P2 | **SNX5P2** | sorting nexin 5 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728468 | gene-BCRP6 | **BCRP6** | BCR pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 728470 | gene-LOC728470 | **LOC728470** | cancer/testis antigen 55 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728477 | gene-GOLGA2P8 | **GOLGA2P8** | GOLGA2 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 728481 | gene-RPL23AP21 | **RPL23AP21** | ribosomal protein L23a p | pseudogene | 2 | 2 | 3 | 3 | 0.979 |
| 728484 | gene-RPL23AP61 | **RPL23AP61** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728485 | NR_164115,NR_16 | **LOC728485** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728489 | NM_001080849,NR | **DNLZ** | DNL-type zinc finger | protein_coding | 4 | 4 | 5 | 5 | 1.092 |
| 728492 | NM_001178087,NM | **SERF1B** | small EDRK-rich factor 1 | protein_coding | 23 | 22 | 24 | 23 | 0.963 |
| 728493 | gene-DPPA3P1 | **DPPA3P1** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728495 | NR_026801 | **FAM74A3** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728498 | NM_001282490 | **GOLGA8H** | golgin A8 family member | protein_coding | 6 | 5 | 7 | 6 | 0.820 |
| 728501 | gene-RPL21P75 | **RPL21P75** | ribosomal protein L21 ps | pseudogene | 27 | 27 | 28 | 28 | 0.998 |
| 728505 | gene-WDR82P1 | **WDR82P1** | WD repeat domain 82 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728509 | gene-RPS19P7 | **RPS19P7** | ribosomal protein S19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728517 | gene-RPL23AP24 | **RPL23AP24** | ribosomal protein L23a p | pseudogene | 0 | 2 | 1 | 3 | 2.351 |
| 728519 | gene-NAIPP2 | **NAIPP2** | NAIP pseudogene 2 | pseudogene | 2 | 1 | 3 | 2 | 0.939 |
| 728523 | gene-RPL9P17 | **RPL9P17** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728524 | NM_001382525 | **SPDYE8** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728532 | gene-DYNC1I2P1 | **DYNC1I2P1** | dynein cytoplasmic 1 inte | pseudogene | 0 | 0 | 1 | 1 | 1.123 |
| 728533 | gene-LOC728533 | **LOC728533** | IST1 homolog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728535 | gene-NAIPP1 | **NAIPP1** | NAIP pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 728537 | NM_001351368,NR | **C2orf92** | chromosome 2 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 728538 | gene-RPL23AP77 | **RPL23AP77** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728553 | gene-RPS8P8 | **RPS8P8** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 728554 | NR_003615 | **LOC728554** | THO complex 3 pseudog | transcribed_pseu | 74 | 75 | 75 | 76 | 1.020 |
| 728558 | NR_038444,NR_13 | **ENTPD1-AS1** | ENTPD1 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.030 |
| 728562 | gene-RPSAP45 | **RPSAP45** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 728564 | gene-GMPSP1 | **GMPSP1** | guanine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.218 |
| 728567 | gene-RPL23AP48 | **RPL23AP48** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728568 | NM_001135570,XM | **C12orf73** | chromosome 12 open rea | protein_coding | 14 | 14 | 15 | 15 | 1.041 |
| 728572 | gene-RPL32P11 | **RPL32P11** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728576 | gene-RPL15P7 | **RPL15P7** | ribosomal protein L15 ps | pseudogene | 2 | 3 | 3 | 4 | 1.249 |
| 728577 | NM_001201380 | **CNTNAP3B** | contactin associated pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728586 | NM_001317938,XM | **CCDC192** | coiled-coil domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728587 | gene-LOC728587 | **LOC728587** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728588 | NM_001354471,XM | **MS4A18** | membrane spanning 4-d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728589 | gene-NAP1L4P1 | **NAP1L4P1** | nucleosome assembly pr | pseudogene | 1 | 0 | 2 | 1 | 0.679 |
| 728591 | NM_001144981,NM | **CCDC169** | coiled-coil domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728597 | NM_001287444,NM | **DCDC2C** | doublecortin domain con | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728599 | gene-CIAPIN1P | **CIAPIN1P** | cytokine induced apopto | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 728602 | gene-OAZ1P1 | **OAZ1P1** | OAZ1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728606 | NR_024259 | **PCAT18** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728609 | NR_003263 | **SDHAP3** | succinate dehydrogenas | transcribed_pseu | 11 | 9 | 12 | 10 | 0.899 |
| 728611 | gene-BMS1P10 | **BMS1P10** | BMS1 pseudogene 10 | pseudogene | 1 | 0 | 2 | 1 | 0.804 |
| 728613 | NR_003713 | **LOC728613** | programmed cell death 6 | transcribed_pseu | 6 | 5 | 7 | 6 | 0.875 |
| 728619 | NR_033769 | **ASB9P1** | ankyrin repeat and SOCS | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728621 | NM_001080850,NM | **CCDC30** | coiled-coil domain conta | protein_coding | 1 | 0 | 2 | 1 | 0.863 |
| 728622 | NR_036619 | **SKP1P2** | S-phase kinase associat | transcribed_pseu | 0 | 0 | 1 | 1 | 0.976 |
| 728629 | gene-TPI1P4 | **TPI1P4** | triosephosphate isomera | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 728632 | gene-HMGN2P3 | **HMGN2P3** | high mobility group nucl | pseudogene | 98 | 104 | 99 | 105 | 1.068 |
| 728635 | NM_001277864,NR | **DHRS4L1** | dehydrogenase/reductas | protein_coding | 2 | 2 | 3 | 3 | 0.951 |
| 728637 | NM_001303622 | **MEIKIN** | meiotic kinetochore facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728638 | gene-KRT8P3 | **KRT8P3** | keratin 8 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728640 | NR_027508 | **FAM133CP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.004 |
| 728641 | gene-FABP5P7 | **FABP5P7** | fatty acid binding protein | pseudogene | 30 | 36 | 31 | 37 | 1.180 |
| 728642 | NM_001313896,NM | **CDK11A** | cyclin dependent kinase | protein_coding | 48 | 52 | 49 | 53 | 1.066 |
| 728643 | NR_003277 | **HNRNPA1P33** | heterogeneous nuclear r | transcribed_pseu | 0 | 0 | 1 | 1 | 0.992 |
| 728655 | NR_004855 | **HULC** | hepatocellular carcinoma | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728656 | NM_001080851,NM | **DMRTC1B** | DMRT like family C1B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728657 | gene-DUSP8P2 | **DUSP8P2** | dual specificity phosphat | pseudogene | 1 | 1 | 2 | 2 | 1.187 |
| 728658 | NR_026712 | **RPL13AP5** | ribosomal protein L13a p | transcribed_pseu | 5 | 6 | 6 | 7 | 1.172 |
| 728660 | NR_148935 | **LOC728660** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728661 | NM_001110781,NM | **SLC35E2B** | solute carrier family 35 m | protein_coding | 15 | 16 | 16 | 17 | 1.048 |
| 728664 | gene-API5P2 | **API5P2** | apoptosis inhibitor 5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 728666 | gene-PRELID1P1 | **PRELID1P1** | PRELID1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 728673 | NR_126047 | **LOC728673** | uncharacterized LOC728 | lncRNA | 1 | 1 | 2 | 2 | 0.915 |
| 728675 | gene-SMCO4P1 | **SMCO4P1** | single-pass membrane p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728688 | gene-LOC728688 | **LOC728688** | ubiquitin like with PHD a | pseudogene | 14 | 16 | 15 | 17 | 1.151 |
| 728689 | NM_001099661,NM | **EIF3CL** | eukaryotic translation init | protein_coding | 435 | 440 | 436 | 441 | 1.010 |
| 728693 | gene-RPL21P105 | **RPL21P105** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.172 |
| 728695 | NM_032461 | **SPANXB1** | SPANX family member B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728698 | gene-EIF4A1P4 | **EIF4A1P4** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.132 |
| 728700 | gene-RPS3AP19 | **RPS3AP19** | RPS3A pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728706 | gene-SUGT1P2 | **SUGT1P2** | SUGT1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.793 |
| 728712 | NM_145662 | **SPANXA2** | SPANX family member A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728715 | NR_144634 | **LOC728715** | ovostatin homolog 2 | lncRNA | 2 | 2 | 3 | 3 | 0.979 |
| 728716 | NR_040065 | **LINC01346** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728723 | NR_024398 | **ZBED3-AS1** | ZBED3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728724 | NR_033916 | **LINC00977** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728729 | gene-FABP5P8 | **FABP5P8** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728730 | NR_037875 | **MAP4K3-DT** | MAP4K3 divergent trans | lncRNA | 1 | 1 | 2 | 2 | 0.869 |
| 728732 | gene-HNRNPA1P53 | **HNRNPA1P53** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 728734 | NM_001310136,XM | **NPIPB8** | nuclear pore complex int | protein_coding | 3 | 2 | 4 | 3 | 0.837 |
| 728737 | gene-TATDN1P1 | **TATDN1P1** | TatD DNase domain con | pseudogene | 0 | 0 | 1 | 1 | 1.040 |
| 728739 | NR_037629 | **LOC728739** | programmed cell death 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.981 |
| 728741 | NM_001282524,XM | **NPIPB6** | nuclear pore complex int | protein_coding | 2 | 2 | 3 | 3 | 0.992 |
| 728743 | NR_027237 | **LOC728743** | zinc finger protein pseud | transcribed_pseu | 2 | 2 | 3 | 3 | 1.097 |
| 728746 | gene-FAM90A17P | **FAM90A17P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728748 | gene-THAP12P1 | **THAP12P1** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728752 | NR_036504 | **LOC728752** | uncharacterized LOC728 | lncRNA | 4 | 2 | 5 | 3 | 0.614 |
| 728753 | gene-FAM90A19P | **FAM90A19P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728755 | NR_148991,NR_148 | **LOC728755** | uncharacterized LOC728 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728758 | NR_003571 | **PIN4P1** | peptidylprolyl cis/trans is | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728763 | NM_001351305,XM | **CROCC2** | ciliary rootlet coiled-coil, | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728769 | NR_105014 | **SCAMP1-AS1** | SCAMP1 antisense RNA | lncRNA | 15 | 14 | 16 | 15 | 0.970 |
| 728770 | gene-DNM1P5 | **DNM1P5** | dynamin 1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728773 | NR_026904 | **PABPC1P2** | poly(A) binding protein c | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728774 | gene-RPS15AP25 | **RPS15AP25** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728776 | gene-HMGN1P37 | **HMGN1P37** | high mobility group nucl | pseudogene | 2 | 2 | 3 | 3 | 1.086 |
| 728780 | NM_001276713,XM | **ANKDD1B** | ankyrin repeat and death | protein_coding | 0 | 0 | 1 | 1 | 0.878 |
| 728782 | gene-RPL21P134 | **RPL21P134** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 728788 | gene-ANKRD20A20 | **ANKRD20A20P** | ankyrin repeat domain 20 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728791 | gene-RPS10P4 | **RPS10P4** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 0.924 |
| 728798 | NR_033172 | **FRMPD2B** | FERM and PDZ domain | transcribed_pseu | 0 | 1 | 1 | 2 | 1.138 |
| 728806 | NR_033799 | **NSFP1** | N-ethylmaleimide-sensiti | transcribed_pseu | 27 | 21 | 28 | 22 | 0.778 |
| 728807 | gene-LOC728807 | **LOC728807** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728811 | gene-LOC728811 | **LOC728811** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728815 | gene-CRLF3P1 | **CRLF3P1** | CRLF3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728819 | NM_001101330 | **C1GALT1C1L** | C1GALT1 specific chape | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728820 | gene-RPL29P15 | **RPL29P15** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728823 | gene-RPS26P53 | **RPS26P53** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.179 |
| 728825 | gene-LOC728825 | **LOC728825** | small ubiquitin-like modif | pseudogene | 16 | 16 | 17 | 17 | 0.988 |
| 728833 | NM_001345942,NM | **FAM72D** | family with sequence sim | protein_coding | 78 | 71 | 79 | 72 | 0.911 |
| 728841 | NM_001037501,NR | **NBPF8** | NBPF member 8 | protein_coding | 3 | 2 | 4 | 3 | 0.864 |
| 728843 | gene-RPL7P20 | **RPL7P20** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728851 | gene-HMGN1P36 | **HMGN1P36** | high mobility group nucl | pseudogene | 53 | 47 | 54 | 48 | 0.889 |
| 728855 | NR_024510,NR_02 | **LINC00623** | long intergenic non-prote | lncRNA | 15 | 14 | 16 | 15 | 0.977 |
| 728858 | NM_001080406,XM | **C12orf71** | chromosome 12 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728877 | gene-LOC728877 | **LOC728877** | COBW domain containin | pseudogene | 1 | 2 | 2 | 3 | 1.515 |
| 728882 | NR_026714,NR_02 | **FAM182B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728887 | gene-CCNB1IP1P1 | **CCNB1IP1P1** | cyclin B1 interacting prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728888 | NM_001310137,XM | **NPIPB11** | nuclear pore complex int | protein_coding | 4 | 5 | 5 | 6 | 1.122 |

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|---|---|---|---|---|---|---|---|---|---|
| 728911 | NM_152582,XM_00( | **CT45A2** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728913 | gene-RCN1P2 | **RCN1P2** | reticulocalbin 1 pseudog | pseudogene | 2 | 2 | 3 | 3 | 1.066 |
| 728917 | gene-ABHD17AP1 | **ABHD17AP1** | ABHD17A pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 0.963 |
| 728920 | NR_146087 | **PDE4DIPP1** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728921 | gene-HAUS1P1 | **HAUS1P1** | HAUS augmin like compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728927 | NM_001170905,NM | **ZNF736** | zinc finger protein 736 | protein_coding | 4 | 4 | 5 | 5 | 0.942 |
| 728929 | NM_001100817 | **ELOA3B** | elongin A3 family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728931 | gene-AMD1P3 | **AMD1P3** | adenosylmethionine dec | pseudogene | 1 | 0 | 2 | 1 | 0.709 |
| 728933 | gene-RPL23AP60 | **RPL23AP60** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 728937 | gene-RPS26P25 | **RPS26P25** | ribosomal protein S26 ps | pseudogene | 56 | 62 | 57 | 63 | 1.114 |
| 728938 | gene-SUB1P1 | **SUB1P1** | SUB1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.933 |
| 728945 | NM_001164262 | **PPIAL4F** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728947 | gene-ZNF680P1 | **ZNF680P1** | ZNF680 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.949 |
| 728953 | gene-RPS19P3 | **RPS19P3** | ribosomal protein S19 ps | pseudogene | 0 | 1 | 1 | 2 | 1.110 |
| 728957 | NM_001039615,XM_ | **ZNF705D** | zinc finger protein 705D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 728962 | gene-RPL7P56 | **RPL7P56** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 728963 | NR_026768 | **RPS15AP10** | ribosomal protein S15a p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 728970 | gene-PPP1R2P4 | **PPP1R2P4** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728975 | NR_145677 | **LOC728975** | uncharacterized LOC728 | lncRNA | 1 | 1 | 2 | 2 | 0.859 |
| 728978 | NR_038453 | **UNC5B-AS1** | UNC5B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 728979 | gene-RPL10AP9 | **RPL10AP9** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.162 |
| 728989 | NR_024442 | **LOC728989** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 0.886 |
| 728990 | gene-SLC9A3P3 | **SLC9A3P3** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 728992 | gene-RPL7AP11 | **RPL7AP11** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.265 |
| 728996 | gene-METTL8P1 | **METTL8P1** | methyltransferase like 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729004 | gene-RPL9P2 | **RPL9P2** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729009 | gene-FTH1P20 | **FTH1P20** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.234 |
| 729012 | gene-SKA2P1 | **SKA2P1** | spindle and kinetochore | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729013 | NR_034137 | **ZBED5-AS1** | ZBED5 antisense RNA 1 | lncRNA | 2 | 4 | 3 | 5 | 1.630 |
| 729020 | NM_001143909 | **RPEL1** | ribulose-5-phosphate-3-e | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729023 | gene-NUTM2HP | **NUTM2HP** | NUT family member 2H, | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 729025 | NM_001170798 | **SLC15A5** | solute carrier family 15 m | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729033 | gene-LOC729033 | **LOC729033** | . | pseudogene | 0 | 0 | 1 | 1 | 0.982 |
| 729041 | NR_045483 | **FAAHP1** | fatty acid amide hydrolas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729042 | gene-RPL29P3 | **RPL29P3** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729046 | gene-RPL17P50 | **RPL17P50** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.119 |
| 729050 | gene-KRT18P29 | **KRT18P29** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729056 | gene-JCADP1 | **JCADP1** | JCAD pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729057 | gene-TOMM40P2 | **TOMM40P2** | TOMM40 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 729059 | NM_001242521 | **TEX46** | testis expressed 46 | protein_coding | 0 | 0 | 1 | 1 | 0.878 |
| 729073 | gene-CIBAR1P1 | **CIBAR1P1** | CIBAR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729075 | gene-RPL36AP23 | **RPL36AP23** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729079 | gene-RPSAP21 | **RPSAP21** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729080 | NR_033244 | **LOC729080** | glycine cleavage system | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729082 | NR_026757,NR_15 | **OIP5-AS1** | OIP5 antisense RNA 1 | lncRNA | 69 | 57 | 70 | 58 | 0.838 |
| 729083 | NR_122070 | **LINC02158** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729085 | NM_001129908 | **GASK1A** | golgi associated kinase 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729086 | gene-LOC729086 | **LOC729086** | VOPP1, WBP1/VOPP1 f | pseudogene | 11 | 10 | 12 | 11 | 0.960 |
| 729092 | NM_001144000 | **AGAP5** | ArfGAP with GTPase dor | protein_coding | 2 | 1 | 3 | 2 | 0.790 |
| 729096 | NR_026592 | **BMS1P4** | BMS1 pseudogene 4 | transcribed_pseu | 1 | 0 | 2 | 1 | 0.835 |
| 729097 | gene-RPS4XP14 | **RPS4XP14** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 729101 | gene-IMMP1LP1 | **IMMP1LP1** | inner mitochondrial mem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729102 | gene-HNRNPA1P22 | **HNRNPA1P22** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729119 | gene-HMGB2P1 | **HMGB2P1** | high mobility group box 2 | pseudogene | 0 | 0 | 1 | 1 | 0.921 |
| 729121 | NR_024439 | **RGPD4-AS1** | RGPD4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729131 | gene-KRT8P7 | **KRT8P7** | keratin 8 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729138 | gene-RPLP1P2 | **RPLP1P2** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729141 | gene-LOC729141 | **LOC729141** | chromosome 18 open re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729146 | gene-RPL9P28 | **RPL9P28** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 0.880 |
| 729148 | gene-NUS1P1 | **NUS1P1** | NUS1 pseudogene 1 | pseudogene | 9 | 9 | 10 | 10 | 0.961 |
| 729150 | gene-RPS3AP14 | **RPS3AP14** | RPS3A pseudogene 14 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729156 | NR_003934 | **GTF2IRD1P1** | GTF2I repeat domain cor | transcribed_pseu | 0 | 0 | 1 | 1 | 0.981 |
| 729162 | NR_146578,NR_14( | **FAM239B** | family with sequence sir | transcribed_pseu | 1 | 1 | 2 | 2 | 0.955 |
| 729163 | gene-FABP5P2 | **FABP5P2** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 729171 | NR_003366 | **ANKRD20A8P** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.994 |
| 729176 | NR_003954 | **KATNBL1P6** | katanin regulatory subur | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729177 | NR_034143 | **NBAT1** | neuroblastoma associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729178 | NR_034115 | **STXBP5-AS1** | STXBP5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729188 | gene-RPS26P58 | **RPS26P58** | ribosomal protein S26 ps | pseudogene | 5 | 5 | 6 | 6 | 0.998 |
| 729196 | gene-UNC93B5 | **UNC93B5** | unc-93 homolog B5 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 729198 | gene-ANAPC10P1 | **ANAPC10P1** | anaphase promoting con | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729200 | gene-LOC729200 | **LOC729200** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 0.772 |
| 729201 | NM_001079900 | **SPACA5B** | sperm acrosome associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729208 | gene-RPL21P14 | **RPL21P14** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.951 |
| 729209 | gene-RPSAP26 | **RPSAP26** | ribosomal protein SA pse | pseudogene | 1 | 1 | 2 | 2 | 0.826 |
| 729211 | gene-KRT18P15 | **KRT18P15** | keratin 18 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729212 | gene-RPL13AP26 | **RPL13AP26** | ribosomal protein L13a p | pseudogene | 0 | 1 | 1 | 2 | 1.558 |
| 729217 | gene-LOC729217 | **LOC729217** | EBP like pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 729218 | NR_103825,NR_10( | **LOC729218** | uncharacterized LOC729 | transcribed_pseu | 5 | 4 | 6 | 5 | 0.838 |
| 729220 | NR_164135 | **FLJ45513** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 0.814 |
| 729224 | NR_135243,NR_13( | **KIAA2012-AS1** | KIAA2012 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.038 |
| 729230 | NM_001123041,NM | **CCR2** | C-C motif chemokine rec | protein_coding | 0 | 0 | 1 | 1 | 1.054 |
| 729233 | NM_001130404 | **PRR20B** | proline rich 20B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729234 | NR_003698 | **FAHD2CP** | fumarylacetoacetate hyd | transcribed_pseu | 2 | 1 | 3 | 2 | 0.913 |
| 729236 | gene-RPS13P2 | **RPS13P2** | ribosomal protein S13 ps | pseudogene | 2 | 2 | 3 | 3 | 0.908 |
| 729238 | NM_001098668,NM | **SFTPA2** | surfactant protein A2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729240 | NM_001130405 | **PRR20C** | proline rich 20C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729241 | gene-RPL21P117 | **RPL21P117** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729246 | NM_001130406 | **PRR20D** | proline rich 20D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729248 | gene-ZBTB45P2 | **ZBTB45P2** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729249 | gene-KLHL2P1 | **KLHL2P1** | kelch like family member | pseudogene | 0 | 1 | 1 | 2 | 1.734 |
| 729250 | NM_001130407 | **PRR20E** | proline rich 20E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729252 | NR_073414 | **KRT16P1** | keratin 16 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729254 | NR_157850 | **LOC729254** | hCG2045843 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729257 | gene-RPS24P4 | **RPS24P4** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729259 | gene-RPL17P43 | **RPL17P43** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729262 | NM_001278495 | **NUTM2B** | NUT family member 2B | protein_coding | 0 | 1 | 1 | 2 | 1.186 |
| 729264 | NM_001243722,NR_ | **TP53TG3D** | TP53 target 3D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729274 | gene-RPS2P53 | **RPS2P53** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 729277 | gene-RPL23AP47 | **RPL23AP47** | ribosomal protein L23a p | pseudogene | 0 | 1 | 1 | 2 | 1.321 |
| 729279 | gene-RPL28P5 | **RPL28P5** | ribosomal protein L28 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729288 | NR_160540 | **ZNF286B** | zinc finger protein 286B | transcribed_pseu | 2 | 2 | 3 | 3 | 0.794 |
| 729291 | NR_148936 | **LOC729291** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 0.895 |
| 729293 | gene-RPS18P10 | **RPS18P10** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729296 | NR_109916,NR_10( | **LOC729296** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729298 | gene-PCNPP3 | **PCNPP3** | PEST containing nuclear | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 729299 | gene-PMS2P8 | **PMS2P8** | PMS1 homolog 2, misma | pseudogene | 2 | 2 | 3 | 3 | 0.816 |
| 729301 | gene-RPL17P9 | **RPL17P9** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 729305 | NR_147836 | **LINC02714** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729307 | NR_134640 | **LINC02510** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729310 | gene-KYNUP2 | **KYNUP2** | kynureninase pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729313 | gene-PPIAP51 | **PPIAP51** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729317 | gene-VDAC2P5 | **VDAC2P5** | VDAC2 pseudogene 5 | pseudogene | 9 | 9 | 10 | 10 | 1.008 |
| 729321 | gene-KYNUP1 | **KYNUP1** | kynureninase pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729323 | gene-KYNUP3 | **KYNUP3** | kynureninase pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729327 | gene-MED28P7 | **MED28P7** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729330 | NM_001080399 | **OC90** | otoconin 90 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729332 | gene-RPL27P8 | **RPL27P8** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729334 | gene-LOC729334 | **LOC729334** | cytospin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729338 | NR_024041 | **CETN4P** | centrin 4, pseudogene | transcribed_pseu | 3 | 2 | 4 | 3 | 0.861 |
| 729340 | gene-RPL17P36 | **RPL17P36** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.754 |
| 729344 | gene-KRT8P24 | **KRT8P24** | keratin 8 pseudogene 24 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729347 | gene-AKR1B1P3 | **AKR1B1P3** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729348 | NR_130931 | **LINC01873** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729349 | gene-RPL17P16 | **RPL17P16** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 729355 | NM_001099687,NR_ | **TP53TG3B** | TP53 target 3B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 729359 | NM_001367868,XM_ | **PLIN4** | perilipin 4 | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 729362 | gene-RPL36AP37 | **RPL36AP37** | ribosomal protein L36a p | pseudogene | 46 | 46 | 47 | 47 | 0.991 |
| 729366 | gene-HNRNPA1P51 | **HNRNPA1P51** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 729374 | gene-RPS10P6 | **RPS10P6** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 729375 | NR_024252 | **FAM86HP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 0.966 |
| 729384 | NM_001105522 | **TRIM49D2** | tripartite motif containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729389 | gene-RPS6P25 | **RPS6P25** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 0.960 |
| 729391 | gene-COP1P1 | **COP1P1** | COP1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729396 | NM_001098406 | **GAGE12J** | G antigen 12J | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729399 | gene-SEPHS1P6 | **SEPHS1P6** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.073 |
| 729402 | gene-RPL21P16 | **RPL21P16** | ribosomal protein L21 ps | pseudogene | 77 | 77 | 78 | 78 | 0.997 |
| 729403 | gene-GAPDHP61 | **GAPDHP61** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 0.904 |
| 729406 | gene-PPP1R14BP2 | **PPP1R14BP2** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.055 |
| 729409 | gene-C1GALT1P1 | **C1GALT1P1** | C1GALT1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 729412 | gene-PSMA6P2 | **PSMA6P2** | proteasome subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729416 | gene-RPLP1P6 | **RPLP1P6** | ribosomal protein lateral | pseudogene | 1 | 1 | 2 | 2 | 1.148 |
| 729420 | NR_164111 | **LMO7DN** | LMO7 downstream neigh | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729422 | NM_001098408 | **GAGE12C** | G antigen 12C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729423 | gene-HNRNPA1P6 | **HNRNPA1P6** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.077 |
| 729428 | NM_001127345 | **GAGE12B** | G antigen 12B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729431 | NM_001098418 | **GAGE12E** | G antigen 12E | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729435 | gene-ATP6V1E1P3 | **ATP6V1E1P3** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729438 | NM_001145064,XM_ | **CASTOR2** | cytosolic arginine sensor | protein_coding | 0 | 0 | 1 | 1 | 0.960 |
| 729440 | NM_001267723,XM_ | **CCDC61** | coiled-coil domain contai | protein_coding | 7 | 9 | 8 | 10 | 1.255 |
| 729442 | NM_001098410 | **GAGE12H** | G antigen 12H | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729447 | NM_001127212 | **GAGE2A** | G antigen 2A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729449 | gene-RPL7P50 | **RPL7P50** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729450 | gene-SUSD2P2 | **SUSD2P2** | sushi domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729451 | XR_429363,XR_943 | **LOC729451** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729453 | gene-PMS2P6 | **PMS2P6** | PMS1 homolog 2, misma | pseudogene | 2 | 1 | 3 | 2 | 0.696 |
| 729454 | gene-DSTNP4 | **DSTNP4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729458 | NM_001364674 | **MBD3L2B** | methyl-CpG binding dom | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729461 | NR_136569,NR_165 | **FAM230J** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729467 | NR_027120 | **HSD52** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729468 | NR_146438,NR_146 | **PGM5P4** | phosphoglucomutase 5 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729475 | NM_001099218,NM | **RAD51AP2** | RAD51 associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729480 | gene-RPL23AP5 | **RPL23AP5** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729484 | gene-RPL21P18 | **RPL21P18** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729486 | gene-IL9RP3 | **IL9RP3** | interleukin 9 receptor ps | pseudogene | 8 | 8 | 9 | 9 | 0.948 |
| 729490 | gene-NCOR1P2 | **NCOR1P2** | NCOR1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729493 | gene-GAPDHP38 | **GAPDHP38** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 729494 | gene-ARPC3P3 | **ARPC3P3** | actin related protein 2/3 ( | pseudogene | 1 | 1 | 2 | 2 | 1.064 |
| 729495 | gene-ABHD17AP4 | **ABHD17AP4** | ABHD17A pseudogene 4 | pseudogene | 1 | 1 | 2 | 2 | 1.225 |
| 729496 | gene-LOC729496 | **LOC729496** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729497 | gene-NCOA4P3 | **NCOA4P3** | nuclear receptor coactiva | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 729500 | gene-RPL12P14 | **RPL12P14** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729505 | gene-HMGN2P24 | **HMGN2P24** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729506 | NR_039984 | **LINC02226** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729515 | NM_018452 | **TMEM242** | transmembrane protein 2 | protein_coding | 8 | 7 | 9 | 8 | 0.941 |
| 729522 | NR_024035,NR_135 | **AACSP1** | acetoacetyl-CoA synthet | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729524 | gene-FEM1AP4 | **FEM1AP4** | fem-1 homolog A pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729528 | NM_001024661,XM_ | **PRAMEF14** | PRAME family member 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729530 | gene-CNOT6LP1 | **CNOT6LP1** | CNOT6L pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 729533 | NM_001123168,NM | **FAM72A** | family with sequence sim | protein_coding | 69 | 64 | 70 | 65 | 0.935 |
| 729535 | gene-FAM207BP | **FAM207BP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.225 |
| 729536 | gene-RPL34P31 | **RPL34P31** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729540 | NM_001037866,NM | **RGPD6** | RANBP2 like and GRIP ( | protein_coding | 1 | 1 | 2 | 2 | 0.885 |
| 729557 | gene-LOC729557 | **LOC729557** | density regulated re-initia | pseudogene | 0 | 0 | 1 | 1 | 1.233 |
| 729558 | NR_149035 | **LOC729558** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729561 | gene-NAP1L1P1 | **NAP1L1P1** | nucleosome assembly pr | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 729564 | gene-HMGN2P41 | **HMGN2P41** | high mobility group nucl | pseudogene | 186 | 197 | 187 | 198 | 1.061 |
| 729565 | gene-NDUFB8P2 | **NDUFB8P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729566 | gene-ZBTB8OSP1 | **ZBTB8OSP1** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729568 | gene-SUSD2P1 | **SUSD2P1** | sushi domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729582 | NR_026597 | **DIRC3** | disrupted in renal carcin | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729583 | NR_103538 | **LINC01556** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729595 | gene-HMGB3P22 | **HMGB3P22** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 0.864 |
| 729597 | NM_001146210 | **SPDYE6** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729602 | gene-NPIPB1P | **NPIPB1P** | nuclear pore complex int | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729603 | NR_003288 | **CHP1P2** | CHP1 pseudogene 2 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.045 |
| 729608 | gene-RPF2P1 | **RPF2P1** | ribosome production fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729609 | NR_024440 | **LOC729609** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729610 | gene-FAHD2P1 | **FAHD2P1** | fumarylacetoacetate hyd | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729611 | gene-RPL29P30 | **RPL29P30** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729614 | NR_024279 | **FLJ37453** | uncharacterized LOC729 | lncRNA | 3 | 3 | 4 | 4 | 0.925 |
| 729617 | gene-RPL23AP74 | **RPL23AP74** | ribosomal protein L23a p | pseudogene | 1 | 0 | 2 | 1 | 0.804 |
| 729621 | gene-RPL36AP46 | **RPL36AP46** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.103 |
| 729627 | NM_001134659 | **PRR23A** | proline rich 23A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729630 | gene-DYNLL1P7 | **DYNLL1P7** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 729633 | NR_024072 | **MRS2P2** | MRS2 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729635 | gene-HMGB3P19 | **HMGB3P19** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729646 | gene-RPL31P4 | **RPL31P4** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.164 |
| 729648 | NR_146444,NR_146 | **ZNF812P** | zinc finger protein 812, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.018 |
| 729650 | gene-METTL15P3 | **METTL15P3** | methyltransferase like 15 | pseudogene | 0 | 0 | 1 | 1 | 1.132 |
| 729652 | NR_135198 | **LOC729652** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 729654 | gene-LOC729654 | **LOC729654** | inositol polyphosphate m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729658 | NR_122120 | **PACRG-AS3** | PACRG antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729662 | gene-RPL22P3 | **RPL22P3** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.109 |
| 729665 | NM_001164399,XM_ | **CCDC175** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729666 | gene-LDHAP5 | **LDHAP5** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.145 |
| 729667 | gene-TRMT112P3 | **TRMT112P3** | tRNA methyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729668 | NR_120609 | **GOLGA2P6** | GOLGA2 pseudogene 6 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729673 | gene-PPIAP18 | **PPIAP18** | peptidylprolyl isomerase | pseudogene | 4 | 4 | 5 | 5 | 1.092 |
| 729674 | gene-PSMC2P1 | **PSMC2P1** | PSMC2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.946 |
| 729677 | gene-RPL7P16 | **RPL7P16** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 729678 | NR_027183,NR_045 | **LINC00847** | long intergenic non-prote | lncRNA | 20 | 21 | 21 | 22 | 1.054 |
| 729679 | gene-RPS2P51 | **RPS2P51** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729681 | NR_147704 | **LOC729681** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729682 | gene-KRT17P3 | **KRT17P3** | keratin 17 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729683 | NR_046273 | **LOC729683** | uncharacterized LOC729 | lncRNA | 14 | 14 | 15 | 15 | 0.994 |
| 729687 | gene-HMGN2P25 | **HMGN2P25** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729689 | NR_046354 | **FAM90A2P** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729707 | gene-LOC729707 | **LOC729707** | transmembrane O-mann | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729708 | gene-TPI1P1 | **TPI1P1** | triosephosphate isomera | pseudogene | 2 | 2 | 3 | 3 | 1.201 |
| 729723 | NR_034113 | **DNAJC27-AS1** | DNAJC27 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729727 | gene-RPL12P1 | **RPL12P1** | ribosomal protein L12 ps | pseudogene | 1 | 1 | 2 | 2 | 0.950 |
| 729732 | NR_047662 | **LOC729732** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729737 | NR_039983 | **LOC729737** | uncharacterized LOC729 | lncRNA | 1 | 1 | 2 | 2 | 1.009 |
| 729739 | NR_045207 | **PPIAP46** | peptidylprolyl isomerase | transcribed_pseu | 0 | 0 | 1 | 1 | 0.995 |
| 729747 | NM_001080404,XM_ | **ZNF878** | zinc finger protein 878 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729756 | NR_160551 | **PRSS44P** | serine protease 44, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729759 | NM_001005221 | **OR4F29** | olfactory receptor family | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729760 | gene-RPL12P18 | **RPL12P18** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729764 | gene-RPL23AP45 | **RPL23AP45** | ribosomal protein L23a p | pseudogene | 0 | 1 | 1 | 2 | 1.161 |
| 729767 | NM_001278392,XM_ | **CEACAM18** | CEA cell adhesion molec | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729769 | gene-UQCRHP2 | **UQCRHP2** | ubiquinol-cytochrome c r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729774 | gene-LOC729774 | **LOC729774** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729779 | gene-PSAT1P3 | **PSAT1P3** | phosphoserine aminotra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729780 | gene-RPS10P8 | **RPS10P8** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729786 | NR_027411 | **GOLGA8CP** | golgin A8 family member | transcribed_pseu | 0 | 0 | 1 | 1 | 1.060 |
| 729789 | gene-RPS15P5 | **RPS15P5** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 729790 | gene-ARL6IP1P3 | **ARL6IP1P3** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729798 | gene-RPL23AP63 | **RPL23AP63** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 729799 | NR_026952 | **SEC14L1P1** | SEC14 like 1 pseudogen | transcribed_pseu | 0 | 1 | 1 | 2 | 1.221 |
| 729806 | gene-ZNF731P | **ZNF731P** | zinc finger protein 731, p | pseudogene | 38 | 24 | 39 | 25 | 0.641 |
| 729809 | gene-DNM1P34 | **DNM1P34** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 729815 | NR_136624,NR_13( | **LOC729815** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729816 | gene-DHFRP2 | **DHFRP2** | dihydrofolate reductase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729817 | gene-HNRNPA3P14 | **HNRNPA3P14** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 729828 | gene-ST13P20 | **ST13P20** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 729830 | NM_001109977,NM | **FAM160A1** | family with sequence sim | protein_coding | 5 | 4 | 6 | 5 | 0.846 |
| 729835 | gene-LOC729835 | **LOC729835** | ubiquitin fold modifier 1 p | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 729838 | gene-GGTLC4P | **GGTLC4P** | gamma-glutamyltransfer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729839 | gene-LOC729839 | **LOC729839** | DTW domain containing | pseudogene | 4 | 3 | 5 | 4 | 0.882 |
| 729842 | gene-RPS2P50 | **RPS2P50** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.877 |
| 729852 | NM_001302348,NM | **UMAD1** | UBAP1-MVB12-associate | protein_coding | 10 | 10 | 11 | 11 | 0.953 |
| 729857 | NM_001078170,XM_ | **RGPD2** | RANBP2 like and GRIP d | protein_coding | 1 | 1 | 2 | 2 | 0.866 |
| 729859 | gene-WBP1P2 | **WBP1P2** | WBP1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 729862 | NR_033961 | **LSP1P3** | LSP1 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.904 |
| 729867 | NR_123725 | **LOC729867** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729870 | NR_136614 | **LOC729870** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729873 | NM_001123391 | **TBC1D3** | TBC1 domain family mer | protein_coding | 1 | 1 | 2 | 2 | 0.960 |
| 729877 | NM_001123392,XM_ | **TBC1D3H** | TBC1 domain family mer | protein_coding | 0 | 1 | 1 | 2 | 1.087 |
| 729885 | gene-VN1R101P | **VN1R101P** | vomeronasal 1 receptor 1 | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 729894 | gene-ELMO2P1 | **ELMO2P1** | engulfment and cell moti | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729898 | gene-ZBTB8OSP2 | **ZBTB8OSP2** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729900 | gene-LOC729900 | **LOC729900** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729903 | gene-RPS16P10 | **RPS16P10** | ribosomal protein S16 ps | pseudogene | 0 | 0 | 1 | 1 | 1.179 |
| 729909 | gene-RPL36AP26 | **RPL36AP26** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.181 |
| 729911 | NR_038997 | **ANKRD34C-AS1** | ANKRD34C antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729920 | NM_001101417,NM | **CRPPA** | CDP-L-ribitol pyrophospl | protein_coding | 0 | 0 | 1 | 1 | 0.989 |
| 729927 | gene-RPS20P27 | **RPS20P27** | ribosomal protein S20 ps | pseudogene | 8 | 7 | 9 | 8 | 0.921 |
| 729930 | NR_077244 | **LOC729930** | intraflagellar transport as | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 729941 | gene-LOC729941 | **LOC729941** | PDZ domain containing 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729944 | gene-ZNF75CP | **ZNF75CP** | zinc finger protein 75C, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729945 | gene-LOC729945 | **LOC729945** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 0.953 |
| 729948 | gene-CDC26P1 | **CDC26P1** | cell division cycle 26 pse | pseudogene | 9 | 9 | 10 | 10 | 1.044 |
| 729950 | NR_040033 | **LINC01915** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729955 | gene-RPL18AP5 | **RPL18AP5** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729956 | NM_001145176 | **SHISA7** | shisa family member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729960 | gene-LOC729960 | **LOC729960** | NADPH oxidase 4 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729962 | gene-RPL21P71 | **RPL21P71** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729966 | NR_036575 | **LOC729966** | uncharacterized LOC729 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729967 | NM_001145450 | **MORN2** | MORN repeat containing | protein_coding | 15 | 15 | 16 | 16 | 1.017 |
| 729968 | NR_149019 | **LOC729968** | spore coat protein SP96 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729970 | NR_033998,NR_168 | **LOC729970** | hCG2028352-like | lncRNA | 0 | 0 | 1 | 1 | 0.994 |
| 729973 | gene-LOC729973 | **LOC729973** | uncharacterized LOC729 | pseudogene | 0 | 0 | 1 | 1 | 0.889 |
| 729974 | NM_001277397 | **RFPL4AL1** | ret finger protein like 4A | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729975 | NR_034159 | **LINC01530** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 729978 | NM_001355514,XM | **NPIPB2** | nuclear pore complex int | protein_coding | 1 | 1 | 2 | 2 | 0.950 |
| 729987 | NR_046088 | **LINC01776** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 729991 | NM_001145783,NM | **BORCS8** | BLOC-1 related complex | protein_coding | 46 | 49 | 47 | 50 | 1.067 |
| 729992 | gene-ST13P1 | **ST13P1** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 729993 | NM_001145204,NM | **SHISA9** | shisa family member 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 729998 | gene-LOC729998 | **LOC729998** | eukaryotic translation elc | pseudogene | 54 | 57 | 55 | 58 | 1.052 |
| 729999 | gene-LOC729999 | **LOC729999** | glycerol-3-phosphate del | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730005 | NM_001193336,NM | **SEC14L6** | SEC14 like lipid binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730010 | gene-BRI3P1 | **BRI3P1** | brain protein I3 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.042 |
| 730013 | NR_023387 | **ABCC6P2** | ATP binding cassette sul | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 730016 | gene-QRSL1P1 | **QRSL1P1** | QRSL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730021 | gene-LOC730021 | **LOC730021** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730023 | gene-KRT8P13 | **KRT8P13** | keratin 8 pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730029 | gene-RPSAP19 | **RPSAP19** | ribosomal protein SA pse | pseudogene | 110 | 99 | 111 | 100 | 0.903 |
| 730041 | gene-RHOQP2 | **RHOQP2** | ras homolog family mem | pseudogene | 0 | 0 | 1 | 1 | 1.090 |
| 730043 | gene-KRTCAP2P1 | **KRTCAP2P1** | KRTCAP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730051 | NM_001144989,XM_ | **ZNF814** | zinc finger protein 814 | protein_coding | 0 | 0 | 1 | 1 | 1.053 |
| 730052 | gene-UBE2V1P2 | **UBE2V1P2** | ubiquitin conjugating en: | pseudogene | 0 | 1 | 1 | 2 | 1.430 |
| 730061 | gene-RPL34P33 | **RPL34P33** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730066 | gene-VN1R103P | **VN1R103P** | vomeronasal 1 receptor 1 | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 730069 | gene-NRBF2P6 | **NRBF2P6** | NRBF2 pseudogene 6 | pseudogene | 4 | 4 | 5 | 5 | 0.981 |
| 730070 | gene-RPL26P11 | **RPL26P11** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730086 | gene-ALG1L15P | **ALG1L15P** | ALG1 like 15, pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.072 |
| 730087 | NM_001244038,NM | **ZNF726** | zinc finger protein 726 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730091 | NR_038387 | **LINC00886** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730092 | NR_003370 | **RRN3P1** | RRN3 pseudogene 1 | transcribed_pseu | 9 | 9 | 10 | 10 | 0.971 |
| 730094 | NM_001164579 | **MOSMO** | modulator of smoothene | protein_coding | 7 | 5 | 8 | 6 | 0.777 |
| 730098 | NM_001320037,NM | **LOC730098** | uncharacterized LOC730 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730100 | NR_135237 | **LOC730100** | uncharacterized LOC730 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730101 | NR_024403,NR_024 | **LOC730101** | uncharacterized LOC730 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730102 | NR_037167,NR_15 | **CRYZL2P** | crystallin zeta like 2, pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 730109 | NR_104132 | **LINC01100** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730110 | gene-LOC730110 | **LOC730110** | zinc finger protein 492 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730112 | NM_001099951,NM | **FAM166B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.211 |
| 730129 | gene-LOC730129 | **LOC730129** | neugrin, neurite outgrow | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730130 | NM_001136002 | **TMEM229A** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730138 | gene-PFN1P1 | **PFN1P1** | profilin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 730144 | gene-EIF1P3 | **EIF1P3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 730152 | NR_033760 | **GSTA7P** | glutathione S-transferase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 730153 | gene-NPIPB10P | **NPIPB10P** | nuclear pore complex int | pseudogene | 1 | 1 | 2 | 2 | 0.948 |
| 730159 | NM_001195190,XM | **TEX50** | testis expressed 50 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730177 | gene-RPS26P16 | **RPS26P16** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730180 | gene-RBBP4P3 | **RBBP4P3** | RBBP4 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730183 | NM_001256932,NR_ | **LOC730183** | uncharacterized LOC730 | protein_coding | 6 | 7 | 7 | 8 | 1.136 |
| 730187 | gene-RPS10P9 | **RPS10P9** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730190 | gene-ZNF101P2 | **ZNF101P2** | zinc finger protein 101 ps | pseudogene | 0 | 0 | 1 | 1 | 0.935 |
| 730198 | NR_046438 | **MEIS1-AS3** | MEIS1 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.069 |
| 730202 | NR_122121 | **LOC730202** | uncharacterized LOC730 | lncRNA | 6 | 5 | 7 | 6 | 0.820 |
| 730211 | gene-HSP90AA5P | **HSP90AA5P** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 730213 | gene-RPL5P5 | **RPL5P5** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 730227 | NR_034150,NR_034 | **LINC01136** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.914 |
| 730232 | gene-EEF1A1P32 | **EEF1A1P32** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730234 | NR_146388 | **LOC730234** | uncharacterized LOC730 | lncRNA | 1 | 1 | 2 | 2 | 0.732 |
| 730239 | gene-ZDHHC20P4 | **ZDHHC20P4** | zinc finger DHHC-type co | pseudogene | 0 | 0 | 1 | 1 | 0.894 |
| 730246 | gene-HNRNPA1P59 | **HNRNPA1P59** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 730249 | NM_001258406 | **ACOD1** | aconitate decarboxylase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730255 | gene-RPL17P8 | **RPL17P8** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730257 | gene-LOC730257 | **LOC730257** | . | pseudogene | 1 | 1 | 2 | 2 | 1.126 |
| 730262 | NM_001144032 | **PPIAL4E** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730268 | NR_160651 | **ANAPC1P4** | ANAPC1 pseudogene 4 | transcribed_pseu | 15 | 14 | 16 | 15 | 0.913 |
| 730291 | NM_001159524 | **ZNF735** | zinc finger protein 735 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730338 | NR_134575 | **LOC730338** | uncharacterized LOC730 | lncRNA | 0 | 0 | 1 | 1 | 1.152 |
| 730647 | gene-HINT1P1 | **HINT1P1** | histidine triad nucleotide | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730668 | NR_027240 | **LOC730668** | dynein heavy chain -like | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 730747 | gene-RPL14P3 | **RPL14P3** | ribosomal protein L14 ps | pseudogene | 0 | 0 | 1 | 1 | 0.959 |
| 730755 | NM_001165252 | **KRTAP2-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 730792 | gene-SFR1P2 | **SFR1P2** | SFR1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730811 | NR_024468 | **MYT1L-AS1** | MYT1L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730861 | gene-RPS3AP29 | **RPS3AP29** | RPS3A pseudogene 29 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730888 | gene-DEPDC1P1 | **DEPDC1P1** | DEP domain containing 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730971 | NR_027441 | **LINC02447** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 730974 | gene-PRELID3BP7 | **PRELID3BP7** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 730993 | gene-RPS3AP39 | **RPS3AP39** | RPS3A pseudogene 39 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 731075 | XR_001745431,XR_ | **LOC731075** | uncharacterized LOC731 | lncRNA | 0 | 0 | 1 | 1 | 1.111 |
| 731157 | NR_105024 | **LOC731157** | uncharacterized LOC731 | lncRNA | 0 | 0 | 1 | 1 | 0.818 |
| 731220 | NM_001145664,NM | **RFX8** | RFX family member 8, la | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 731223 | NR_038421 | **LINC01220** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 731275 | NR_029401 | **LINC01347** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.093 |
| 731308 | gene-DYNLL1P2 | **DYNLL1P2** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 731424 | NR_132989 | **MIR3945HG** | MIR3945 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 731605 | gene-BCLAF1P2 | **BCLAF1P2** | . | pseudogene | 12 | 10 | 13 | 11 | 0.836 |
| 731631 | gene-LOC731631 | **LOC731631** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 731642 | gene-RPL18AP9 | **RPL18AP9** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 731656 | NR_027454 | **LINC01348** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 731688 | gene-RPL21P120 | **RPL21P120** | ribosomal protein L21 ps | pseudogene | 1 | 0 | 2 | 1 | 0.802 |
| 731741 | gene-RPL32P12 | **RPL32P12** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 731755 | gene-LOC731755 | **LOC731755** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 731779 | NR_024441 | **LINC01300** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 731789 | NR_026794 | **FAM238B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 732199 | gene-RPL29P21 | **RPL29P21** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 732229 | gene-LOC732229 | **LOC732229** | . | pseudogene | 27 | 16 | 28 | 17 | 0.631 |
| 732253 | NR_160958,NR_16( | **TDRG1** | testis development relate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 732265 | NR_160652 | **COMMD4P2** | COMM domain containin | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 732275 | NR_024406 | **LINC00917** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 732448 | gene-CCDC58P3 | **CCDC58P3** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 0.974 |
| 732538 | gene-FBXO36P1 | **FBXO36P1** | F-box protein 36 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 735301 | NR_003142 | **SNHG9** | small nucleolar RNA hos | lncRNA | 13 | 18 | 14 | 19 | 1.289 |
| 751071 | NM_001043229,XM_ | **CSKMT** | citrate synthase lysine m | protein_coding | 10 | 11 | 11 | 12 | 1.086 |
| 751580 | NR_130733,NR_13( | **LINC00106** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.128 |
| 751599 | gene-TPM3P7 | **TPM3P7** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 751602 | gene-LOC751602 | **LOC751602** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 751603 | gene-LOC751603 | **LOC751603** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 751837 | gene-LOC751837 | **LOC751837** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 752014 | NM_001048212 | **CEMP1** | cementum protein 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 767557 | NR_003189 | **SYS1-DBNDD2** | SYS1-DBNDD2 readthro | lncRNA | 2 | 2 | 3 | 3 | 0.828 |
| 767558 | NM_001128619 | **LUZP6** | leucine zipper protein 6 | protein_coding | 20 | 27 | 21 | 28 | 1.311 |
| 767561 | NR_003229 | **SNORD113-1** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767562 | NR_003230 | **SNORD113-2** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767563 | NR_003231 | **SNORD113-3** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767564 | NR_003232 | **SNORD113-4** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767565 | NR_003233 | **SNORD113-5** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767566 | NR_003234 | **SNORD113-6** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767567 | NR_003235 | **SNORD113-7** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767568 | NR_003236 | **SNORD113-8** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767569 | NR_003237 | **SNORD113-9** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767577 | NR_003193 | **SNORD114-1** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767578 | NR_003194 | **SNORD114-2** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767579 | NR_003195 | **SNORD114-3** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767580 | NR_003196 | **SNORD114-4** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767581 | NR_003197 | **SNORD114-5** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767582 | NR_003198 | **SNORD114-6** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767583 | NR_003199 | **SNORD114-7** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767584 | NR_003200 | **SNORD114-8** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767585 | NR_003201 | **SNORD114-9** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767588 | NR_003203 | **SNORD114-10** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767589 | NR_003204 | **SNORD114-11** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767590 | NR_003205 | **SNORD114-12** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767591 | NR_003206 | **SNORD114-13** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767592 | NR_003207 | **SNORD114-14** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767593 | NR_003208 | **SNORD114-15** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767594 | NR_003209 | **SNORD114-16** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767595 | NR_003210 | **SNORD114-17** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767596 | NR_003211 | **SNORD114-18** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767597 | NR_003212 | **SNORD114-19** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767598 | NR_003213 | **SNORD114-20** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767599 | NR_003214 | **SNORD114-21** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767600 | NR_003215 | **SNORD114-22** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767603 | NR_003216 | **SNORD114-23** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767604 | NR_003217 | **SNORD114-24** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767605 | NR_003218 | **SNORD114-25** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767606 | NR_003219 | **SNORD114-26** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767608 | NR_003220 | **SNORD114-27** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767609 | NR_003221 | **SNORD114-28** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767610 | NR_003222 | **SNORD114-29** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767611 | NR_003223 | **SNORD114-30** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767612 | NR_003224 | **SNORD114-31** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 767811 | NR_003238 | **H2BW4P** | H2B.W histone 4, pseud | transcribed_pseu | 1 | 1 | 2 | 2 | 1.102 |
| 767846 | NR_003242 | **PFN1P2** | profilin 1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 767850 | gene-PFN1P9 | **PFN1P9** | profilin 1 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 767851 | gene-PFN1P4 | **PFN1P4** | profilin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 767853 | gene-PFN1P10 | **PFN1P10** | profilin 1 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 768086 | gene-TREHP1 | **TREHP1** | trehalase pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 768096 | NR_003244 | **HAR1A** | highly accelerated regior | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768097 | NR_003245,NR_15: | **HAR1B** | highly accelerated regior | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768206 | NM_001077620,NR_ | **PRCD** | photoreceptor disc comp | protein_coding | 0 | 0 | 1 | 1 | 1.036 |
| 768211 | NM_001085399,NM_ | **RELL1** | RELT like 1 | protein_coding | 6 | 6 | 7 | 7 | 0.966 |
| 768212 | NR_030406,rna-MIF | **MIR758** | microRNA 758 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768213 | NR_030407,rna-MIF | **MIR671** | microRNA 671 | miRNA | 0 | 0 | 1 | 1 | 1.008 |
| 768214 | NR_030408,rna-MIF | **MIR668** | microRNA 668 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768215 | NR_030409,rna-MIF | **MIR767** | microRNA 767 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768216 | NR_030411,rna-MIF | **MIR454** | microRNA 454 | miRNA | 0 | 0 | 1 | 1 | 1.022 |
| 768217 | NR_030412,rna-MIF | **MIR769** | microRNA 769 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768218 | NR_030413,rna-MIF | **MIR766** | microRNA 766 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768219 | NR_030414,rna-MIF | **MIR802** | microRNA 802 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768220 | NR_030527,rna-MIF | **MIR765** | microRNA 765 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768222 | NR_030528,rna-MIF | **MIR770** | microRNA 770 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 768239 | NM_001085382 | **PSAPL1** | prosaposin like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 777650 | gene-LOC777650 | **LOC777650** | UBX domain protein 2B p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 777774 | gene-ACTR3BP4 | **ACTR3BP4** | ACTR3B pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780529 | NR_158457 | **LOC780529** | uncharacterized LOC780 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 780776 | NM_001079512,NM_ | **TVP23A** | trans-golgi network vesic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 780778 | gene-USP10P2 | **USP10P2** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 780779 | gene-USP10P1 | **USP10P1** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 780780 | gene-LOC780780 | **LOC780780** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.020 |
| 780810 | gene-PAICSP3 | **PAICSP3** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780811 | gene-PAICSP5 | **PAICSP5** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780812 | gene-PAICSP6 | **PAICSP6** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780813 | gene-PAICSP4 | **PAICSP4** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 0.891 |
| 780814 | gene-PAICSP1 | **PAICSP1** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 780815 | gene-PAICSP2 | **PAICSP2** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780816 | gene-PAICSP7 | **PAICSP7** | phosphoribosylaminoimic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 780851 | NR_006880 | **SNORD3A** | small nucleolar RNA, C/I | snoRNA | 13 | 9 | 14 | 10 | 0.748 |
| 780852 | NR_003924 | **SNORD3B-2** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.245 |
| 780853 | NR_006881 | **SNORD3C** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.105 |
| 780854 | NR_006882 | **SNORD3D** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.364 |
| 790951 | rna-TRS-AGA3-1 | **TRS-AGA3-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 790952 | NR_027122 | **ESRG** | embryonic stem cell rela | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 790953 | NR_122122,NR_12: | **TSL** | testis-expressed, seven-t | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 790955 | NM_001085372 | **UQCC3** | ubiquinol-cytochrome c r | protein_coding | 26 | 26 | 27 | 27 | 0.998 |
| 790966 | rna-TRK-CTT2-3 | **TRK-CTT2-3** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791091 | gene-LOC791091 | **LOC791091** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791092 | gene-LOC791092 | **LOC791092** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791093 | gene-LOC791093 | **LOC791093** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791096 | gene-LOC791096 | **LOC791096** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791097 | gene-LOC791097 | **LOC791097** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791098 | gene-LOC791098 | **LOC791098** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791114 | NR_026646 | **PWRN1** | Prader-Willi region non-p | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791115 | NR_152824 | **PWRN2** | Prader-Willi region non-p | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791126 | gene-LOC791126 | **LOC791126** | WDR45-like pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 791226 | rna-TRN-GTT4-1 | **TRN-GTT4-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791227 | rna-TRN-GTT6-1 | **TRN-GTT6-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791230 | rna-TRV-AAC1-5 | **TRV-AAC1-5** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791231 | rna-TRV-AAC3-1 | **TRV-AAC3-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 791232 | rna-TRV-CAC1-3 | **TRV-CAC1-3** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100008586 | NM_001098405 | **GAGE12F** | G antigen 12F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100009601 | rna-TRY-GTA7-1 | **TRY-GTA7-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100009602 | rna-TRY-GTA5-4 | **TRY-GTA5-4** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100009605 | rna-TRF-GAA2-1 | **TRF-GAA2-1** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100009606 | rna-TRF-GAA1-4 | **TRF-GAA1-4** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100009607 | rna-TRH-GTG1-6 | **TRH-GTG1-6** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100009613 | NR_103835 | **LINC02584** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100009667 | NR_131184 | **POU5F1P5** | POU class 5 homeobox : | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100009676 | NR_024407 | **ZBTB11-AS1** | ZBTB11 antisense RNA : | lncRNA | 3 | 3 | 4 | 4 | 1.032 |
| 100033411 | NM_001351307,NM | **DUXB** | double homeobox B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100033413 | NR_003316 | **SNORD116-1** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.872 |
| 100033414 | NR_003317 | **SNORD116-2** | small nucleolar RNA, C/I | snoRNA | 0 | 2 | 1 | 3 | 2.796 |
| 100033415 | NR_003318 | **SNORD116-3** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.745 |
| 100033416 | NR_003319 | **SNORD116-4** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.002 |
| 100033417 | NR_003320 | **SNORD116-5** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.976 |
| 100033418 | NR_003321 | **SNORD116-6** | small nucleolar RNA, C/I | snoRNA | 3 | 2 | 4 | 3 | 0.673 |
| 100033419 | NR_003322 | **SNORD116-7** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.646 |
| 100033420 | NR_003323 | **SNORD116-8** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033421 | NR_003324 | **SNORD116-9** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033422 | NR_003325 | **SNORD116-10** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033423 | NR_003326 | **SNORD116-11** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033424 | NR_003327 | **SNORD116-12** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.343 |
| 100033425 | NR_003328 | **SNORD116-13** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.811 |
| 100033426 | NR_003329 | **SNORD116-14** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033427 | NR_003330 | **SNORD116-15** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033428 | NR_003331 | **SNORD116-16** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033429 | NR_003332 | **SNORD116-17** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.296 |
| 100033430 | NR_003333 | **SNORD116-18** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.031 |
| 100033431 | NR_003334 | **SNORD116-20** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.252 |
| 100033432 | NR_003335 | **SNORD116-21** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.511 |
| 100033433 | NR_003336 | **SNORD116-22** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 1.151 |
| 100033434 | NR_003337 | **SNORD116-23** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033435 | NR_003338 | **SNORD116-24** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 0.875 |
| 100033436 | NR_003339 | **SNORD116-25** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033437 | NR_003294 | **SNORD115-2** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033438 | NR_003340 | **SNORD116-26** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033439 | NR_003341 | **SNORD116-27** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033440 | NR_003295 | **SNORD115-3** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033441 | NR_003296 | **SNORD115-4** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033442 | NR_003297 | **SNORD115-5** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033443 | NR_003298 | **SNORD115-6** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033444 | NR_003299 | **SNORD115-7** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033445 | NR_003300 | **SNORD115-8** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033446 | NR_003301 | **SNORD115-9** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033447 | NR_003302 | **SNORD115-10** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033448 | NR_003303 | **SNORD115-11** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033449 | NR_003304 | **SNORD115-12** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033450 | NR_003305 | **SNORD115-13** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033451 | NR_003306 | **SNORD115-14** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033453 | NR_003307 | **SNORD115-15** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033454 | NR_003308 | **SNORD115-16** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033455 | NR_003309 | **SNORD115-17** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033456 | NR_003310 | **SNORD115-18** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033458 | NR_003311 | **SNORD115-19** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033460 | NR_003312 | **SNORD115-20** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033603 | NR_003313 | **SNORD115-21** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033799 | NR_003314 | **SNORD115-22** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033800 | NR_003315 | **SNORD115-23** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033801 | NR_003342 | **SNORD115-25** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033802 | NR_003343 | **SNORD115-26** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033803 | NR_003344 | **SNORD115-29** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033804 | NR_003345 | **SNORD115-30** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033805 | NR_003346 | **SNORD115-31** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033806 | NR_003347 | **SNORD115-32** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033807 | NR_003348 | **SNORD115-33** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033808 | NR_003349 | **SNORD115-34** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033809 | NR_003350 | **SNORD115-35** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033810 | NR_003351 | **SNORD115-36** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033811 | NR_003352 | **SNORD115-37** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033812 | NR_003353 | **SNORD115-38** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033813 | NR_003354 | **SNORD115-39** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033814 | NR_003355 | **SNORD115-40** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033815 | NR_003356 | **SNORD115-41** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033816 | NR_003357 | **SNORD115-42** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033817 | NR_003358 | **SNORD115-43** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033818 | NR_003359 | **SNORD115-44** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033819 | NR_030533,rna-MIF | **MIR675** | microRNA 675 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100033820 | NR_003361 | **SNORD116-28** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.543 |
| 100033821 | NR_003360 | **SNORD116-29** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.496 |
| 100033822 | NR_003362 | **SNORD115-48** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100034743 | NR_111936 | **PDZK1P1** | PDZ domain containing : | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100036563 | NR_003495 | **SNORD115-24** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100036564 | NR_003496 | **SNORD115-27** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100036565 | NR_003497 | **SNORD115-28** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100036566 | NR_003498 | **SNORD115-45** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100036567 | NR_003499 | **SNORD115-47** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100036574 | gene-HMGN1P3 | **HMGN1P3** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 100036575 | gene-HMGN1P4 | **HMGN1P4** | high mobility group nucl | pseudogene | 6 | 5 | 7 | 6 | 0.901 |
| 100037267 | gene-LOC1000372 | **LOC100037267** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100037280 | gene-UBE2D3P1 | **UBE2D3P1** | ubiquitin conjugating en | pseudogene | 1 | 1 | 2 | 2 | 1.077 |
| 100037417 | NM_001084393,XM | **DDTL** | D-dopachrome tautomer | protein_coding | 23 | 32 | 24 | 33 | 1.374 |
| 100038246 | NR_130722,NR_13 | **TLX1NB** | TLX1 neighbor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100048912 | NR_003529,NR_047 | **CDKN2B-AS1** | CDKN2B antisense RNA | lncRNA | 6 | 4 | 7 | 5 | 0.720 |
| 100049076 | NR_033968 | **GUSBP9** | GUSB pseudogene 9 | transcribed_pseu | 5 | 5 | 6 | 6 | 0.960 |
| 100049587 | NM_001098612,XM | **SIGLEC14** | sialic acid binding Ig like | protein_coding | 0 | 0 | 1 | 1 | 0.990 |
| 100049613 | rna-TRK-TTT3-4 | **TRK-TTT3-4** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100049614 | rna-TRV-CAC1-5 | **TRV-CAC1-5** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100049716 | NR_122124 | **NINJ2-AS1** | NINJ2 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.189 |
| 100049717 | gene-JKAMPP1 | **JKAMPP1** | JNK1/MAPK8-associated | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100073347 | NR_024059 | **MIMT1** | MER1 repeat containing | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100093624 | gene-CDH12P3 | **CDH12P3** | cadherin 12 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100093625 | gene-CDH12P1 | **CDH12P1** | cadherin 12 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100093626 | gene-CDH12P4 | **CDH12P4** | cadherin 12 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100093630 | NR_003584,NR_034 | **SNHG8** | small nucleolar RNA hos | lncRNA | 140 | 143 | 141 | 144 | 1.023 |
| 100093631 | NR_003580 | **GTF2IP4** | general transcription fact | transcribed_pseu | 34 | 29 | 35 | 30 | 0.866 |
| 100093698 | NR_046087 | **GS1-600G8.3** | unknown transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101111 | gene-GXYLT1P1 | **GXYLT1P1** | GXYLT1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101112 | gene-CDC14BL | **CDC14BL** | CDC14 cell division cycle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101115 | NR_003588 | **TTTY21B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101116 | NR_003589 | **TTTY1B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101117 | NR_003590 | **TTTY2B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101118 | NR_003591 | **TTTY8B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101119 | gene-SKP1P3 | **SKP1P3** | S-phase kinase associat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101120 | NR_003592 | **TTTY7B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101121 | NR_003593 | **TTTY23B** | testis-specific transcript, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100101126 | gene-LOC1001011 | **LOC100101126** | thioredoxin related transi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101127 | gene-LOC1001011 | **LOC100101127** | thioredoxin related transi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101148 | NR_104007 | **LOC100101148** | FKBP prolyl isomerase 6 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100101246 | gene-IFITM3P5 | **IFITM3P5** | IFITM3 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.028 |
| 100101266 | NR_003603 | **HAVCR1P1** | hepatitis A virus cellular | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100101267 | NM_001099415,NR | **POM121C** | POM121 transmembrane | protein_coding | 74 | 70 | 75 | 71 | 0.948 |
| 100101268 | NM_001382555 | **SPDYE12P** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100101405 | gene-TMA16P1 | **TMA16P1** | translation machinery as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101407 | gene-TMA16P2 | **TMA16P2** | translation machinery as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101440 | NR_130940 | **PMS2P7** | PMS1 homolog 2, misma | transcribed_pseu | 11 | 13 | 12 | 14 | 1.156 |
| 100101467 | NM_001112734,NM | **ZSCAN30** | zinc finger and SCAN do | protein_coding | 6 | 4 | 7 | 5 | 0.654 |
| 100101478 | NR_130172 | **H2BW3P** | H2B.W histone 3, pseud | transcribed_pseu | 1 | 1 | 2 | 2 | 0.979 |
| 100101483 | gene-LOC1001014 | **LOC100101483** | glycerophosphocholine p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101490 | gene-MCTS2P | **MCTS2P** | MCTS family member 2, | pseudogene | 39 | 38 | 40 | 39 | 0.978 |
| 100101554 | gene-BRI3P3 | **BRI3P3** | brain protein I3 pseudog | pseudogene | 0 | 0 | 1 | 1 | 0.875 |
| 100101917 | gene-ELF2P1 | **ELF2P1** | ELF2 pseudogene 1 | pseudogene | 1 | 0 | 2 | 1 | 0.782 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100101932 | gene-GNG5P3 | **GNG5P3** | G protein subunit gamm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101933 | gene-GNG5P4 | **GNG5P4** | G protein subunit gamm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101935 | gene-GNG5P5 | **GNG5P5** | G protein subunit gamm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100101938 | NR_027248 | **ANKRD26P3** | ankyrin repeat domain 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.954 |
| 100113373 | gene-HMGN2P17 | **HMGN2P17** | high mobility group nucl | pseudogene | 2 | 3 | 3 | 4 | 1.142 |
| 100113374 | gene-LOC10011337 | **LOC100113374** | tRNA nucleotidyl transfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100113375 | gene-LOC10011337 | **LOC100113375** | tRNA nucleotidyl transfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100113378 | NR_003684 | **SNORD119** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.671 |
| 100113379 | NR_003685 | **SNORD121A** | small nucleolar RNA, C/I | snoRNA | 1 | 2 | 2 | 3 | 1.217 |
| 100113380 | NR_003686 | **SNORD125** | small nucleolar RNA, C/I | snoRNA | 27 | 27 | 28 | 28 | 1.010 |
| 100113381 | NR_003687 | **SNORD19B** | small nucleolar RNA, C/I | snoRNA | 9 | 11 | 10 | 12 | 1.198 |
| 100113382 | NR_003688 | **SNORD105B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.963 |
| 100113384 | NR_003689 | **SNORD123** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100113386 | NR_027287 | **UCKL1-AS1** | UCKL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 100113389 | NR_003691 | **SNORD127** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.305 |
| 100113391 | NR_003693 | **SNORD126** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.963 |
| 100113392 | NR_003694 | **SNORD11B** | small nucleolar RNA, C/I | snoRNA | 2 | 1 | 3 | 2 | 0.754 |
| 100113393 | NR_003695 | **SNORD12B** | small nucleolar RNA, C/I | snoRNA | 2 | 3 | 3 | 4 | 1.551 |
| 100113402 | NR_037420 | **SNORD111B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100113403 | NR_046407 | **LIN28B-AS1** | LIN28B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100113404 | NR_038194 | **LINC00583** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100113407 | NM_001100829 | **TMEM170B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 100113421 | gene-FGF7P8 | **FGF7P8** | fibroblast growth factor 7 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 100114903 | gene-NRBF2P2 | **NRBF2P2** | nuclear receptor binding | pseudogene | 0 | 0 | 1 | 1 | 1.104 |
| 100118954 | gene-NRBF2P5 | **NRBF2P5** | nuclear receptor binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100124332 | gene-YBX2P1 | **YBX2P1** | YBX2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100124334 | gene-YBX2P2 | **YBX2P2** | YBX2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100124394 | gene-KLF3P2 | **KLF3P2** | Kruppel like factor 3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100124402 | gene-LOC10012440 | **LOC100124402** | ubiquitin-fold modifier co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100124412 | NR_026819 | **FAM138E** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124516 | NR_003701 | **SNORD58C** | small nucleolar RNA, C/I | snoRNA | 11 | 10 | 12 | 11 | 0.923 |
| 100124533 | NR_003703 | **SCARNA27** | small Cajal body-specific | guide_RNA | 14 | 11 | 15 | 12 | 0.784 |
| 100124534 | NR_003704 | **SNORA84** | small nucleolar RNA, H/A | snoRNA | 4 | 2 | 5 | 3 | 0.562 |
| 100124535 | NR_003705 | **SNORA36C** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124536 | NR_003706 | **SNORA38B** | small nucleolar RNA, H/A | snoRNA | 1 | 0 | 2 | 1 | 0.545 |
| 100124537 | NR_003707 | **SNORA70B** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124538 | NR_003708 | **SNORA70C** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124539 | NR_003709 | **SNORA11B** | small nucleolar RNA, H/A | snoRNA | 1 | 0 | 2 | 1 | 0.570 |
| 100124540 | NR_003710 | **SNORA11C** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124541 | NR_003711 | **SNORA11D** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100124700 | NR_003716,NR_047 | **HOTAIR** | HOX transcript antisense | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100125288 | NM_001103167 | **ZGLP1** | zinc finger GATA like pro | protein_coding | 2 | 2 | 3 | 3 | 1.196 |
| 100125387 | gene-HNRNPRP1 | **HNRNPRP1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 100125393 | gene-LOC10012539 | **LOC100125393** | TIMELESS interacting pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100125409 | gene-LOC10012540 | **LOC100125409** | histone PARylation facto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100125556 | NR_024250,NR_024 | **FAM86JP** | family with sequence sim | transcribed_pseu | 3 | 3 | 4 | 4 | 0.965 |
| 100126007 | gene-L1TD1P1 | **L1TD1P1** | LINE-1 type transposase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100126008 | gene-NUDT19P1 | **NUDT19P1** | nudix hydrolase 19 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100126270 | NR_024499,NR_024 | **FMR1-AS1** | FMR1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 100126296 | NR_030580,rna-MIR | **MIR298** | microRNA 298 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126297 | NR_030582,rna-MIR | **MIR300** | microRNA 300 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126299 | NR_030583 | **VTRNA2-1** | vault RNA 2-1 | vault_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126301 | NR_030586,rna-MIR | **MIR509-2** | microRNA 509-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126302 | NR_030587,rna-MIR | **MIR450B** | microRNA 450b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126303 | NR_030589,rna-MIR | **MIR890** | microRNA 890 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126304 | NR_030590,rna-MIR | **MIR891B** | microRNA 891b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126306 | NR_030592,rna-MIR | **MIR888** | microRNA 888 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126307 | NR_030593,rna-MIR | **MIR892B** | microRNA 892b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126308 | NR_030594,rna-MIR | **MIR541** | microRNA 541 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126309 | NR_030596,rna-MIR | **MIR875** | microRNA 875 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126310 | NR_030597,rna-MIR | **MIR876** | microRNA 876 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126311 | NR_030599,rna-MIR | **MIR147B** | microRNA 147b | miRNA | 1 | 0 | 2 | 1 | 0.639 |
| 100126313 | NR_030613,rna-MIR | **MIR744** | microRNA 744 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126314 | NR_030615,rna-MIR | **MIR877** | hsa-miR-877-5p | . | 1 | 1 | 2 | 2 | 1.510 |
| 100126315 | NR_030617,rna-MIR | **MIR665** | microRNA 665 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126316 | NR_030618,rna-MIR | **MIR873** | microRNA 873 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126317 | NR_030620,rna-MIR | **MIR374B** | microRNA 374b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126318 | NR_030622,rna-MIR | **MIR301B** | microRNA 301b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126319 | NR_030623,rna-MIR | **MIR216B** | microRNA 216b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126320 | NR_030625,rna-MIR | **MIR920** | microRNA 920 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126321 | NR_030627,rna-MIR | **MIR922** | microRNA 922 | miRNA | 0 | 0 | 1 | 1 | 1.016 |
| 100126323 | NR_030628,rna-MIR | **MIR924** | microRNA 924 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126324 | NR_030631,rna-MIR | **MIR934** | microRNA 934 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126325 | NR_030632,rna-MIR | **MIR935** | microRNA 935 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126326 | NR_030760,rna-MIR | **MIR936** | microRNA 936 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126327 | NR_030634,rna-MIR | **MIR938** | microRNA 938 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126328 | NR_030636,rna-MIR | **MIR940** | microRNA 940 | miRNA | 0 | 0 | 1 | 1 | 1.029 |
| 100126329 | NR_030637,rna-MIR | **MIR941-1** | microRNA 941-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126330 | NR_040032,rna-MIR | **MIR941-4** | microRNA 941-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126331 | NR_030640,rna-MIR | **MIR942** | microRNA 942 | miRNA | 0 | 0 | 1 | 1 | 1.086 |
| 100126332 | NR_030641,rna-MIR | **MIR943** | microRNA 943 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126333 | NR_030598,rna-MIR | **MIR708** | microRNA 708 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126334 | NR_030614,rna-MIR | **MIR885** | microRNA 885 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126335 | NR_030619,rna-MIR | **MIR543** | microRNA 543 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126336 | NR_030624,rna-MIR | **MIR208B** | microRNA 208b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126337 | NR_030629,rna-MIR | **MIR509-3** | microRNA 509-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126338 | NR_030633,rna-MIR | **MIR937** | microRNA 937 | miRNA | 0 | 1 | 1 | 2 | 1.831 |
| 100126339 | NR_030638,rna-MIR | **MIR941-2** | microRNA 941-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126340 | NR_030642,rna-MIR | **MIR944** | microRNA 944 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126341 | NR_030581,rna-MIR | **MIR891A** | microRNA 891a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126342 | NR_030584,rna-MIR | **MIR892A** | microRNA 892a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126343 | NR_030588,rna-MIR | **MIR874** | microRNA 874 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126345 | NR_030595,rna-MIR | **MIR889** | microRNA 889 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126346 | NR_030600,rna-MIR | **MIR190B** | microRNA 190b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126347 | NR_030616,rna-MIR | **MIR887** | microRNA 887 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126348 | NR_030621,rna-MIR | **MIR760** | microRNA 760 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126349 | NR_030626,rna-MIR | **MIR921** | microRNA 921 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126350 | NR_030630,rna-MIR | **MIR933** | microRNA 933 | miRNA | 0 | 0 | 1 | 1 | 0.720 |
| 100126351 | NR_030635,rna-MIR | **MIR939** | microRNA 939 | miRNA | 0 | 1 | 1 | 2 | 1.694 |
| 100126352 | NR_030639,rna-MIR | **MIR941-3** | microRNA 941-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126354 | NR_030643,rna-MIR | **MIR297** | microRNA 297 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126355 | NR_029854,rna-MIR | **MIR365A** | microRNA 365a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126356 | NR_029856,rna-MIR | **MIR365B** | microRNA 365b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126446 | gene-DEPDC1P2 | **DEPDC1P2** | DEP domain containing 1 | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 100126447 | NR_145523 | **LOC100126447** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126572 | NM_001358410 | **GJE1** | gap junction protein epsi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100126584 | NR_149043 | **LOC100126584** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126693 | NR_103713 | **LINC00322** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126780 | NR_004383 | **SNAR-G1** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126781 | NR_004384 | **SNAR-F** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126784 | NR_015384 | **LOC100126784** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 100126791 | NR_004428 | **EGOT** | eosinophil granule ontog | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126793 | NR_004431,NR_024 | **GHRLOS** | ghrelin opposite strand/a | lncRNA | 1 | 1 | 2 | 2 | 1.104 |
| 100126798 | NR_004435 | **SNAR-A1** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126799 | NR_004436 | **SNAR-A2** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126800 | NR_004437 | **SNAR-A12** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100126825 | gene-GJA6P | **GJA6P** | gap junction protein alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127206 | NM_001257308 | **MINAR2** | membrane integral NOTC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100127883 | gene-IBTKP1 | **IBTKP1** | inhibitor of Bruton tyrosir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127888 | NR_024470 | **SLCO4A1-AS1** | SLCO4A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.934 |
| 100127893 | gene-RPL7P24 | **RPL7P24** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.121 |
| 100127902 | gene-BMI1P1 | **BMI1P1** | BMI1 proto-oncogene, pc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127903 | gene-LOC10012790 | **LOC100127903** | speckle type BTB/POZ p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127905 | gene-SMIM11P1 | **SMIM11P1** | small integral membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127908 | gene-SELENOKP2 | **SELENOKP2** | selenoprotein K pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127911 | gene-ST13P12 | **ST13P12** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100127917 | gene-LOC10012791 | **LOC100127917** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127919 | gene-LOC10012791 | **LOC100127919** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127922 | gene-SUMO2P6 | **SUMO2P6** | SUMO2 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 100127924 | gene-RPS15AP14 | **RPS15AP14** | ribosomal protein S15a p | pseudogene | 2 | 2 | 3 | 3 | 0.920 |
| 100127934 | gene-LOC10012793 | **LOC100127934** | meiotic nuclear divisions | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127945 | gene-SOCS5P3 | **SOCS5P3** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100127949 | gene-RPL15P16 | **RPL15P16** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 100127950 | NR_135295 | **HECW1-IT1** | HECW1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100127952 | gene-ATF4P4 | **ATF4P4** | activating transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.083 |
| 100127954 | gene-LOC10012795 | **LOC100127954** | PTTG1 regulator of siste | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127955 | XR_108730 | **LOC100127955** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100127958 | gene-AGGF1P9 | **AGGF1P9** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127960 | gene-BCAS2P1 | **BCAS2P1** | BCAS2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127962 | gene-LOC10012796 | **LOC100127962** | coiled-coil serine rich prc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127963 | gene-RPS3AP48 | **RPS3AP48** | RPS3A pseudogene 48 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127965 | gene-LOC10012796 | **LOC100127965** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127967 | NR_126005 | **KRT73-AS1** | KRT73 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100127976 | gene-VTI1BP3 | **VTI1BP3** | vesicle transport through | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127979 | gene-FUNDC2P4 | **FUNDC2P4** | FUN14 domain containin | pseudogene | 0 | 0 | 1 | 1 | 1.157 |
| 100127982 | gene-LOC10012798 | **LOC100127982** | transmembrane protein 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127983 | NM_001190972,NM | **C8orf88** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100127986 | gene-LOC10012798 | **LOC100127986** | cation channel sperm as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127989 | gene-MED15P4 | **MED15P4** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127993 | gene-RPL15P5 | **RPL15P5** | ribosomal protein L15 ps | pseudogene | 1 | 1 | 2 | 2 | 1.154 |
| 100127995 | gene-RPL34P7 | **RPL34P7** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100127999 | gene-RPL18AP11 | **RPL18AP11** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128002 | XR_158870 | **LOC100128002** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128004 | gene-RPL32P21 | **RPL32P21** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128006 | NR_104607 | **LOC100128006** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128007 | gene-LOC10012800 | **LOC100128007** | Spi-C transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128010 | gene-SUMO2P17 | **SUMO2P17** | SUMO2 pseudogene 17 | pseudogene | 6 | 8 | 7 | 9 | 1.384 |
| 100128011 | gene-FAR1P1 | **FAR1P1** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128012 | gene-ISCA1P4 | **ISCA1P4** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128015 | gene-HMGN1P26 | **HMGN1P26** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.949 |
| 100128017 | gene-TULP3P1 | **TULP3P1** | TUB like protein 3 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128020 | gene-ACTR3P3 | **ACTR3P3** | ACTR3 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128022 | gene-LOC10012802 | **LOC100128022** | pleckstrin homology dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128023 | NR_027764 | **DPPA2P3** | developmental pluripoter | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100128025 | NR_040250 | **WWTR1-AS1** | WWTR1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128036 | gene-KLF7P1 | **KLF7P1** | kruppel like factor 7 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128043 | gene-FAF2P1 | **FAF2P1** | Fas associated factor far | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128044 | gene-HNRNPA1P11 | **HNRNPA1P11** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128048 | gene-CHORDC1P1 | **CHORDC1P1** | CHORDC1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.916 |
| 100128050 | gene-LOC10012805 | **LOC100128050** | WD repeat domain 77 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128052 | gene-LOC10012805 | **LOC100128052** | protein phosphatase 2 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128054 | NR_033969 | **PLCE1-AS1** | PLCE1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128055 | NR_104027 | **SMARCA5-AS1** | SMARCA5 antisense RN | lncRNA | 1 | 0 | 2 | 1 | 0.816 |
| 100128056 | gene-LOC10012805 | **LOC100128056** | CTD small phosphatase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128059 | NR_147701 | **LOC100128059** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128060 | gene-RPS7P10 | **RPS7P10** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.712 |
| 100128062 | gene-SLC2A3P1 | **SLC2A3P1** | solute carrier family 2 me | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 100128071 | NM_001167676 | **FAM229A** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 1.190 |
| 100128072 | gene-RPL36AP27 | **RPL36AP27** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128076 | NR_015444 | **LOC100128076** | protein tyrosine phospha | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100128078 | gene-LOC10012807 | **LOC100128078** | NIPA like domain contain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128079 | NR_147898 | **LOC100128079** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128081 | NR_034097 | **JAZF1-AS1** | JAZF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 100128083 | gene-RPS15AP40 | **RPS15AP40** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.214 |
| 100128086 | gene-LOC10012808 | **LOC100128086** | APAF1 interacting protei | pseudogene | 1 | 1 | 2 | 2 | 1.172 |
| 100128091 | gene-LOC10012809 | **LOC100128091** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.030 |
| 100128092 | gene-PRDX3P2 | **PRDX3P2** | peroxiredoxin 3 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128098 | NR_034129 | **ST8SIA6-AS1** | ST8SIA6 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128102 | gene-PHBP16 | **PHBP16** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128103 | gene-AGGF1P5 | **AGGF1P5** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128108 | NR_168283 | **LOC100128108** | ubiquitin-conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100128109 | gene-MEF2BNBP1 | **MEF2BNBP1** | MEF2B neighbor pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128110 | gene-CHCHD2P3 | **CHCHD2P3** | coiled-coil-helix-coiled-co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128115 | gene-RPL26P35 | **RPL26P35** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128117 | gene-RPL17P15 | **RPL17P15** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.941 |
| 100128118 | gene-CCNHP1 | **CCNHP1** | cyclin H pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128119 | gene-SLC25A51P3 | **SLC25A51P3** | SLC25A51 pseudogene : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128121 | gene-LOC10012812 | **LOC100128121** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128124 | NM_001129895 | **HGC6.3** | uncharacterized LOC100 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100128126 | NR_038406 | **STAU2-AS1** | STAU2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128127 | NR_111905 | **ADGRA1-AS1** | ADGRA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128132 | gene-TMCC1P1 | **TMCC1P1** | transmembrane and coil | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128136 | gene-NDUFA5P4 | **NDUFA5P4** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128139 | NR_110663,NR_110 | **LINC01233** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128140 | gene-RPS4XP17 | **RPS4XP17** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100128144 | gene-LOC10012814 | **LOC100128144** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128145 | gene-CLCP2 | **CLCP2** | Charcot-Leyden crystal p | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 100128162 | gene-RPS6P7 | **RPS6P7** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128164 | NR_024409,NR_027 | **LOC100128164** | four and a half LIM doma | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100128168 | gene-RPS26P39 | **RPS26P39** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100128174 | gene-DEFB131C | **DEFB131C** | defensin beta 131C (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128176 | NR_038408 | **UST-AS1** | UST antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128177 | gene-NDUFS5P5 | **NDUFS5P5** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128179 | gene-RAP1BP2 | **RAP1BP2** | RAP1B, member of RAS | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128183 | gene-PABPC1P7 | **PABPC1P7** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128190 | gene-SLC9B1P1 | **SLC9B1P1** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128191 | NR_027157 | **TMPO-AS1** | TMPO antisense RNA 1 | lncRNA | 7 | 6 | 8 | 7 | 0.967 |
| 100128203 | gene-ENSAP3 | **ENSAP3** | endosulfine alpha pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128217 | gene-GTF3AP5 | **GTF3AP5** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128218 | gene-PSMC6P3 | **PSMC6P3** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128220 | gene-EDDM3DP | **EDDM3DP** | epididymal protein 3D, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128227 | gene-HMGB1P20 | **HMGB1P20** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128233 | NR_103769 | **LINC02324** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128237 | gene-YRDCP2 | **YRDCP2** | yrdC N(6)-threonylcarbar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128238 | gene-KIAA0895LP1 | **KIAA0895LP1** | KIAA00895L pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128239 | NR_027276 | **LINC02731** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128240 | gene-CD83P1 | **CD83P1** | CD83 molecule pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128250 | gene-RPL31P55 | **RPL31P55** | ribosomal protein L31 ps | pseudogene | 10 | 8 | 11 | 9 | 0.867 |
| 100128252 | NR_036521,NR_036 | **ZNF667-AS1** | ZNF667 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128253 | NR_148995 | **LOC100128253** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128258 | gene-RPS18P3 | **RPS18P3** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 100128260 | NR_138048,NR_138 | **WASIR1** | WASH and IL9R antisen | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128262 | NR_145450 | **TNK2-AS1** | TNK2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.010 |
| 100128264 | NR_038945 | **HTR5A-AS1** | HTR5A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128266 | gene-RANP6 | **RANP6** | RAN pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128268 | gene-LOC10012826 | **LOC100128268** | actin related protein T1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128276 | NR_148996 | **LOC100128276** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128277 | gene-RPL35AP20 | **RPL35AP20** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128284 | gene-LOC10012828 | **LOC100128284** | nipsnap homolog 1 (C. e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128285 | NR_024595 | **DNM1P35** | dynamin 1 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100128288 | NR_024447 | **LOC100128288** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 100128292 | NR_024585 | **DLG5-AS1** | DLG5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 100128293 | gene-LOC10012829 | **LOC100128293** | histone-lysine N-methylt | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128299 | gene-SOCS5P2 | **SOCS5P2** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128302 | gene-SDHCP2 | **SDHCP2** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128307 | gene-PIGCP2 | **PIGCP2** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128310 | NR_147702 | **LOC100128310** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128317 | NR_126025,NR_126 | **LOC100128317** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128324 | gene-EXOGP1 | **EXOGP1** | EXOG pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128325 | NR_149033,NR_149 | **LOC100128325** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128327 | NM_001139444 | **TRAPPC3L** | trafficking protein particl | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100128334 | gene-LOC10012833 | **LOC100128334** | gap junction protein gam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100128335 | gene-LOC10012833 | **LOC100128335** | WD repeat domain 12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128337 | gene-IPO7P2 | **IPO7P2** | importin 7 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 100128339 | gene-BCAS2P3 | **BCAS2P3** | BCAS2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128340 | NR_149047 | **LOC100128340** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.054 |
| 100128347 | gene-RPL15P15 | **RPL15P15** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128351 | gene-RPL21P52 | **RPL21P52** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128360 | gene-AIDAP3 | **AIDAP3** | AIDA pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128361 | NR_036505 | **LOC100128361** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.901 |
| 100128365 | gene-LOC10012836 | **LOC100128365** | interferon stimulated exo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128372 | gene-HMGN2P28 | **HMGN2P28** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.794 |
| 100128377 | gene-RPS29P7 | **RPS29P7** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128378 | NR_027331 | **LINC00696** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128379 | gene-LOC10012837 | **LOC100128379** | trafficking from ER to gol | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128385 | NR_024376 | **FAM225B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128386 | NR_133571 | **ARHGAP42-AS1** | ARHGAP42 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128390 | gene-CALM2P1 | **CALM2P1** | calmodulin 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128393 | gene-RPL35AP36 | **RPL35AP36** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128397 | gene-NIFKP5 | **NIFKP5** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128398 | NR_036508 | **LOC100128398** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128407 | gene-LOC10012840 | **LOC100128407** | N-acetylneuraminic acid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128408 | gene-RPL22P10 | **RPL22P10** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128412 | gene-VTA1P2 | **VTA1P2** | vesicle trafficking 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128413 | gene-XIAPP3 | **XIAPP3** | X-linked inhibitor of apop | pseudogene | 0 | 1 | 1 | 2 | 1.525 |
| 100128416 | gene-RAB28P5 | **RAB28P5** | RAB28, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128420 | NR_038461,NR_038 | **LINC00892** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128428 | gene-LOC10012842 | **LOC100128428** | UBX domain protein 2A p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128431 | gene-GEMIN8P1 | **GEMIN8P1** | gem nuclear organelle a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128441 | gene-LOC10012844 | **LOC100128441** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128449 | gene-IL9RP1 | **IL9RP1** | interleukin 9 receptor pse | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 100128454 | gene-LOC10012845 | **LOC100128454** | . | pseudogene | 0 | 0 | 1 | 1 | 0.802 |
| 100128456 | gene-CCNB1IP1P3 | **CCNB1IP1P3** | cyclin B1 interacting prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128459 | gene-CCNJP1 | **CCNJP1** | cyclin J pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128465 | gene-IFIT6P | **IFIT6P** | interferon induced protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128467 | gene-LOC10012846 | **LOC100128467** | nuclear distribution prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128469 | gene-SNRPCP3 | **SNRPCP3** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.290 |
| 100128483 | gene-TPT1P2 | **TPT1P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128494 | NR_104178 | **LOC100128494** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 100128496 | NR_161342,NR_161 | **SCP2D1-AS1** | SCP2D1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128497 | gene-LOC10012849 | **LOC100128497** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128503 | gene-DPPA2P2 | **DPPA2P2** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128505 | NR_033973 | **ASTN2-AS1** | ASTN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128511 | NR_046283,NR_046 | **NEBL-AS1** | NEBL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128512 | gene-FXYD6P2 | **FXYD6P2** | FXYD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128514 | gene-ARHGAP42P5 | **ARHGAP42P5** | ARHGAP42 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128516 | gene-ATP5PBP5 | **ATP5PBP5** | ATP synthase peripheral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128521 | gene-TPT1P14 | **TPT1P14** | tumor protein, translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128523 | gene-LOC10012852 | **LOC100128523** | mitochondrial carrier 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128525 | gene-UQCRFS1P1 | **UQCRFS1P1** | ubiquinol-cytochrome c r | pseudogene | 16 | 18 | 17 | 19 | 1.110 |
| 100128531 | NR_038941 | **KIAA1671-AS1** | KIAA1671 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128535 | gene-RPS18P14 | **RPS18P14** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128536 | gene-SETP8 | **SETP8** | SET pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100128537 | NR_135298,NR_135 | **MIR29B2CHG** | MIR29B2 and MIR29C ho | lncRNA | 0 | 0 | 1 | 1 | 1.152 |
| 100128540 | gene-LOC10012854 | **LOC100128540** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128542 | gene-BET1P1 | **BET1P1** | Bet1 golgi vesicular mem | pseudogene | 2 | 2 | 3 | 3 | 0.958 |
| 100128546 | gene-LOC10012854 | **LOC100128546** | glutaredoxin 5 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128548 | gene-LOC10012854 | **LOC100128548** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128553 | NM_198495 | **CTAGE4** | CTAGE family member 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100128554 | NR_130748 | **LINC02347** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128560 | NR_125367 | **MYHAS** | myosin heavy chain gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128568 | NR_046376 | **LOC100128568** | uncharacterized LOC100 | lncRNA | 3 | 2 | 4 | 3 | 0.939 |
| 100128569 | NM_001135580,XM | **C19orf71** | chromosome 19 open rea | protein_coding | 2 | 2 | 3 | 3 | 0.840 |
| 100128579 | gene-CDKN2AIPNL | **CDKN2AIPNLP2** | CDKN2A interacting prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128588 | gene-LOC10012858 | **LOC100128588** | PIN2 (TERF1) interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128589 | gene-GAPDHP39 | **GAPDHP39** | glyceraldehyde 3 phosph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128590 | NR_038441 | **SLC8A1-AS1** | SLC8A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128592 | gene-LOC10012859 | **LOC100128592** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128593 | NR_033913 | **LOC100128593** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128594 | NR_146556,NR_146 | **TMSB15B-AS1** | TMSB15B antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.911 |
| 100128596 | gene-NDUFB9P2 | **NDUFB9P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128601 | gene-LOC10012860 | **LOC100128601** | zinc finger protein 770 ps | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 100128603 | gene-C1GALT1P2 | **C1GALT1P2** | C1GALT1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128610 | gene-LOC10012861 | **LOC100128610** | putative UPF0607 protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128617 | gene-UBA52P7 | **UBA52P7** | ubiquitin A-52 residue rib | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128618 | gene-SLC25A3P2 | **SLC25A3P2** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128621 | gene-CYB5AP2 | **CYB5AP2** | cytochrome b5 type A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128622 | gene-LOC10012862 | **LOC100128622** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128625 | gene-SRSF1P1 | **SRSF1P1** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128626 | gene-PPP1R2P10 | **PPP1R2P10** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128627 | NR_102426 | **CDC42P3** | cell division cycle 42 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.013 |
| 100128628 | gene-RGS17P1 | **RGS17P1** | regulator of G protein sig | pseudogene | 0 | 0 | 1 | 1 | 0.822 |
| 100128637 | gene-EEF1A1P26 | **EEF1A1P26** | eukaryotic translation elo | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100128639 | gene-HMGB1P48 | **HMGB1P48** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128640 | NR_028389 | **ACVR2B-AS1** | ACVR2B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128646 | gene-RPL10AP7 | **RPL10AP7** | ribosomal protein L10a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128653 | NR_149036 | **LOC100128653** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128657 | gene-CHCHD4P2 | **CHCHD4P2** | coiled-coil-helix-coiled-co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128664 | gene-RPL22P20 | **RPL22P20** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128665 | gene-FYTTD1P1 | **FYTTD1P1** | forty-two-three domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128673 | gene-LOC10012867 | **LOC100128673** | TAF9 RNA polymerase II | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128674 | gene-LOC10012867 | **LOC100128674** | SURP and G-patch dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128675 | NR_024561,NR_024 | **HPN-AS1** | HPN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128676 | gene-LOC10012867 | **LOC100128676** | TBCC domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128678 | gene-BTBD10P1 | **BTBD10P1** | BTB domain containing 1 | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 100128682 | NR_040046 | **LINC01531** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128685 | gene-SLC16A14P1 | **SLC16A14P1** | solute carrier family 16 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128686 | gene-LOC10012868 | **LOC100128686** | programmed cell death 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128688 | NR_135300 | **GPR50-AS1** | GPR50 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128696 | gene-PABPC1P6 | **PABPC1P6** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128701 | gene-HNRNPA1P41 | **HNRNPA1P41** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128705 | gene-AK4P4 | **AK4P4** | adenylate kinase 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 0.872 |
| 100128707 | gene-NIFKP4 | **NIFKP4** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128710 | gene-RPL9P30 | **RPL9P30** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128711 | gene-NDUFB10P1 | **NDUFB10P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128712 | gene-PRELID3BP3 | **PRELID3BP3** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128713 | gene-LOC10012871 | **LOC100128713** | zinc finger protein 816A p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128714 | NR_040082 | **LINC02346** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128721 | gene-LOC10012872 | **LOC100128721** | stromal cell derived factc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128723 | gene-CBX1P3 | **CBX1P3** | chromobox 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128725 | gene-APOOP4 | **APOOP4** | apolipoprotein O pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128731 | NM_001134693 | **OST4** | oligosaccharyltransferas | protein_coding | 300 | 327 | 301 | 328 | 1.089 |
| 100128733 | gene-FCF1P3 | **FCF1P3** | FCF1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128745 | gene-RPLP1P8 | **RPLP1P8** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128750 | NR_046205 | **RBPMS-AS1** | RBPMS antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128756 | gene-RPS7P9 | **RPS7P9** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128759 | gene-HEBP2P1 | **HEBP2P1** | HEBP2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128762 | gene-LOC10012876 | **LOC100128762** | TERF2 interacting protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128764 | gene-THAP12P6 | **THAP12P6** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128766 | gene-RPL8P2 | **RPL8P2** | ribosomal protein L8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128770 | NR_047572 | **LOC100128770** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128771 | gene-EIF4BP3 | **EIF4BP3** | eukaryotic translation init | pseudogene | 0 | 1 | 1 | 2 | 1.101 |
| 100128772 | gene-LOC10012877 | **LOC100128772** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128775 | gene-NEDD8P1 | **NEDD8P1** | NEDD8 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.099 |
| 100128776 | gene-LOC10012877 | **LOC100128776** | NSE4 homolog A, SMC5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128777 | gene-KLF8P1 | **KLF8P1** | Kruppel like factor 8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128781 | gene-SHLD2P2 | **SHLD2P2** | shieldin complex subunit | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 100128782 | NR_023389,NR_023 | **LINC00476** | long intergenic non-prote | lncRNA | 5 | 3 | 6 | 4 | 0.784 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100128787 | NR_038914 | **LINC01349** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128788 | NR_027274,NR_027 | **SRRM2-AS1** | SRRM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.214 |
| 100128790 | gene-LYPLA2P3 | **LYPLA2P3** | LYPLA2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128801 | gene-DRAXINP1 | **DRAXINP1** | dorsal inhibitory axon gu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128803 | gene-LOC10012888 | **LOC100128803** | Spi-C transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128804 | gene-AGGF1P8 | **AGGF1P8** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128811 | NR_027333 | **GPR158-AS1** | GPR158 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128817 | gene-AK6P2 | **AK6P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128818 | XR_001755595 | **LPEQ6126** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128822 | NR_027387 | **LINC01003** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.899 |
| 100128827 | gene-FRG2FP | **FRG2FP** | FSHD region gene 2 fam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128833 | gene-LOC10012888 | **LOC100128833** | VPS37A, ESCRT-I subur | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128834 | gene-CLK3P2 | **CLK3P2** | CDC like kinase 3 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128836 | gene-HNRNPA1P36 | **HNRNPA1P36** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100128845 | gene-CDC42EP3P1 | **CDC42EP3P1** | CDC42 effector protein 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128853 | gene-ZNF725P | **ZNF725P** | zinc finger protein 725, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128857 | gene-B3GALNT1P1 | **B3GALNT1P1** | beta-1,3-N-acetylgalacto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128867 | gene-RBM22P3 | **RBM22P3** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128880 | gene-RAD1P1 | **RAD1P1** | RAD1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128881 | NR_036480 | **VPS9D1-AS1** | VPS9D1 antisense RNA | lncRNA | 12 | 11 | 13 | 12 | 0.967 |
| 100128882 | NR_148997 | **LOC100128882** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128885 | NR_077227 | **LOC100128885** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128888 | gene-RPSAP36 | **RPSAP36** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128889 | gene-NDUFAF4P4 | **NDUFAF4P4** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128890 | NR_027423 | **FAM66B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.135 |
| 100128893 | NR_102763 | **GATA6-AS1** | GATA6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128894 | gene-NAP1L1P2 | **NAP1L1P2** | nucleosome assembly pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128898 | gene-LOC10012889 | **LOC100128898** | latexin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128899 | gene-RPL7L1P9 | **RPL7L1P9** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100128905 | NR_136175 | **LINC01960** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128908 | NM_001354640 | **LMLN2** | leishmanolysin like pepti | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100128911 | gene-PCNPP2 | **PCNPP2** | PEST containing nuclear | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128912 | gene-RPS21P4 | **RPS21P4** | ribosomal protein S21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 100128923 | gene-RPS6P16 | **RPS6P16** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128926 | gene-LOC10012892 | **LOC100128926** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128927 | NM_001137601,NM | **ZBTB42** | zinc finger and BTB dom | protein_coding | 0 | 0 | 1 | 1 | 1.027 |
| 100128930 | gene-SDCBPP1 | **SDCBPP1** | syndecan binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128934 | gene-FXYD6P1 | **FXYD6P1** | FXYD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128936 | gene-RPL10AP6 | **RPL10AP6** | ribosomal protein L10a p | pseudogene | 0 | 1 | 1 | 2 | 1.554 |
| 100128944 | gene-YWHAQP3 | **YWHAQP3** | YWHAQ pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128946 | NR_038944 | **LINC01310** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128948 | gene-LOC10012894 | **LOC100128948** | zinc finger protein 607 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128961 | gene-GAPDHP62 | **GAPDHP62** | glyceraldehyde 3 phospl | pseudogene | 2 | 2 | 3 | 3 | 0.878 |
| 100128963 | gene-RPL3P9 | **RPL3P9** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128964 | gene-SRSF3P5 | **SRSF3P5** | . | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 100128966 | NR_146628 | **LOC100128966** | uncharacterized LOC100 | lncRNA | 2 | 3 | 3 | 4 | 1.188 |
| 100128974 | gene-RBM17P4 | **RBM17P4** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 100128977 | NR_024559 | **MAPT-AS1** | MAPT antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128982 | gene-KATNBL1P4 | **KATNBL1P4** | katanin regulatory subur | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128984 | gene-RPL35AP7 | **RPL35AP7** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128988 | NR_145524,NR_145 | **LOC100128988** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128991 | gene-RSL24D1P9 | **RSL24D1P9** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100128993 | NR_038919 | **LOC100128993** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100128998 | XR_001754451 | **C20orf181** | chromosome 20 open rea | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129001 | gene-LOC10012900 | **LOC100129001** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129004 | gene-RPL3P10 | **RPL3P10** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129005 | gene-APOOP2 | **APOOP2** | apolipoprotein O pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129009 | gene-DCAF13P1 | **DCAF13P1** | DDB1 and CUL4 associa | pseudogene | 0 | 0 | 1 | 1 | 1.082 |
| 100129011 | gene-LSM6P1 | **LSM6P1** | LSM6 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129013 | gene-ACTR3P2 | **ACTR3P2** | ACTR3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129023 | gene-ARF4P4 | **ARF4P4** | ADP ribosylation factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129027 | NR_038876 | **PCBP3-AS1** | PCBP3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129028 | gene-RPLP1P4 | **RPLP1P4** | ribosomal protein lateral | pseudogene | 66 | 80 | 67 | 81 | 1.205 |
| 100129029 | NR_135242 | **PKP4-AS1** | PKP4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129032 | gene-GLYATL1P1 | **GLYATL1P1** | glycine-N-acyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129034 | NR_027406 | **LOC100129034** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.077 |
| 100129037 | gene-LOC10012903 | **LOC100129037** | WEE1 homolog (S. pom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129045 | gene-EIF3KP2 | **EIF3KP2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129046 | NR_034091 | **BCAR3-AS1** | BCAR3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.875 |
| 100129052 | gene-LOC10012905 | **LOC100129052** | N-alpha-acetyltransferas | pseudogene | 0 | 0 | 1 | 1 | 0.907 |
| 100129053 | gene-KDM4F | **KDM4F** | lysine demethylase 4F | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129055 | NR_024524 | **CCNYL4** | cyclin Y like 4 (pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129060 | NR_135301 | **SEMA3F-AS1** | SEMA3F antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129061 | gene-RPL7P25 | **RPL7P25** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129066 | NR_024280 | **UNQ6494** | uncharacterized LOC100 | lncRNA | 2 | 3 | 3 | 4 | 1.171 |
| 100129075 | NR_027123 | **KTN1-AS1** | KTN1 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 0.973 |
| 100129080 | gene-TDGF1P7 | **TDGF1P7** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.096 |
| 100129083 | NR_164124,NR_164 | **SIGLEC10-AS1** | SIGLEC10 antisense RN | lncRNA | 3 | 3 | 4 | 4 | 1.172 |
| 100129085 | gene-SELENOKP1 | **SELENOKP1** | selenoprotein K pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129086 | gene-HIGD1AP1 | **HIGD1AP1** | HIG1 hypoxia inducible d | pseudogene | 4 | 3 | 5 | 4 | 0.824 |
| 100129094 | NM_001287262,XM_ | **BTNL10** | butyrophilin like 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129098 | XM_017014124 | **LOC100129098** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129100 | gene-LOC10012910 | **LOC100129100** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129102 | gene-RPL22P4 | **RPL22P4** | ribosomal protein L22 ps | pseudogene | 0 | 1 | 1 | 2 | 1.060 |
| 100129108 | gene-LOC10012910 | **LOC100129108** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129118 | gene-LOC10012911 | **LOC100129118** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 100129124 | gene-TVP23BP1 | **TVP23BP1** | TVP23B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129128 | NM_001126063 | **KHDC1L** | KH domain containing 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129129 | NR_147705 | **LOC100129129** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129130 | gene-LOC10012913 | **LOC100129130** | THO complex 4 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129133 | gene-TMEM184CP1 | **TMEM184CP1** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129138 | NR_033990 | **LOC100129138** | THAP domain containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129140 | gene-DNAJB12P1 | **DNAJB12P1** | DNAJB12 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129141 | gene-RPL21P37 | **RPL21P37** | ribosomal protein L21 ps | pseudogene | 1 | 1 | 2 | 2 | 0.982 |
| 100129144 | gene-LOC10012914 | **LOC100129144** | zinc finger protein 681 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129148 | NR_033999 | **LOC100129148** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 100129155 | gene-LOC10012915 | **LOC100129155** | phosphoethanolamine/pl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129156 | gene-RBBP6P1 | **RBBP6P1** | RBBP6 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129160 | gene-NMNAT1P2 | **NMNAT1P2** | NMNAT1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129167 | gene-RFESDP1 | **RFESDP1** | Rieske (Fe-S) domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129168 | gene-LOC10012916 | **LOC100129168** | mitochondrial transcriptic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129175 | NR_046086 | **LOC100129175** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129176 | gene-RPL13P6 | **RPL13P6** | ribosomal protein L13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129179 | gene-RPL9P5 | **RPL9P5** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129180 | gene-RPL36AP11 | **RPL36AP11** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129192 | gene-MICC | **MICC** | MHC class I polypeptide- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129195 | NR_103455,NR_103 | **ZSCAN16-AS1** | ZSCAN16 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 0.991 |
| 100129196 | NR_034182 | **MATN1-AS1** | MATN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.159 |
| 100129199 | gene-RPS3AP40 | **RPS3AP40** | RPS3A pseudogene 40 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129201 | gene-PRR13P3 | **PRR13P3** | proline rich 13 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129202 | gene-LOC10012920 | **LOC100129202** | arginine and serine rich ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129203 | NR_110295 | **LOC100129203** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129213 | NR_038419 | **SLC39A12-AS1** | SLC39A12 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.157 |
| 100129215 | XR_109334 | **LOC100129215** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.207 |
| 100129216 | NM_001242853 | **DEFB131B** | defensin beta 131B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129223 | NR_126055 | **THCAT155** | thyroid cancer-associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129224 | gene-SOWAHCP4 | **SOWAHCP4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129227 | gene-RPS6P22 | **RPS6P22** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129231 | gene-HSPA8P20 | **HSPA8P20** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129234 | gene-RPL27P7 | **RPL27P7** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129239 | NM_001144064 | **CXorf51A** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129243 | gene-RPS15AP12 | **RPS15AP12** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.055 |
| 100129245 | gene-LOC10012924 | **LOC100129245** | GAR1 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129248 | gene-PDSS1P1 | **PDSS1P1** | decaprenyl diphosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129250 | NM_001349118,NM | **SMIM27** | small integral membrane | protein_coding | 2 | 2 | 3 | 3 | 1.097 |
| 100129254 | gene-LOC10012925 | **LOC100129254** | chromosome 3 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100129256 | gene-NMNAT1P5 | **NMNAT1P5** | NMNAT1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129259 | gene-BRD7P5 | **BRD7P5** | bromodomain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129260 | gene-RPL7L1P1 | **RPL7L1P1** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129265 | gene-LOC10012926 | **LOC100129265** | zinc finger protein 66-like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129269 | NR_034126 | **LINC01160** | long intergenic non-prote | lncRNA | 4 | 5 | 5 | 6 | 1.122 |
| 100129271 | NM_001024679 | **C1orf68** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129272 | gene-TOMM20P4 | **TOMM20P4** | TOMM20 pseudogene 4 | pseudogene | 0 | 1 | 1 | 2 | 1.178 |
| 100129274 | gene-LOC10012927 | **LOC100129274** | NGG1 interacting factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129278 | NM_001306137,XM_ | **TDRD15** | tudor domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129279 | gene-RPS27P14 | **RPS27P14** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129284 | gene-RPS15AP39 | **RPS15AP39** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129288 | gene-MORF4L1P5 | **MORF4L1P5** | mortality factor 4 like 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129291 | NR_136576 | **LOC100129291** | chromosome X open rea | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129293 | gene-LOC10012929 | **LOC100129293** | IgLON family member 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129295 | gene-RPL22P24 | **RPL22P24** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 100129297 | NR_149026,NR_149 | **CD200R1L-AS1** | CD200R1L antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129306 | gene-RPS20P32 | **RPS20P32** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129307 | NM_001310140 | **LOC100129307** | putative UPF0607 protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129308 | gene-DNAJA1P1 | **DNAJA1P1** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129310 | gene-RPL31P14 | **RPL31P14** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129316 | NR_033912 | **LOC100129316** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 100129320 | gene-HMGB3P10 | **HMGB3P10** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129325 | gene-HNRNPA1P64 | **HNRNPA1P64** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.990 |
| 100129329 | gene-SNRPEP3 | **SNRPEP3** | SNRPE pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129331 | gene-RAB28P2 | **RAB28P2** | RAB28, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100129332 | gene-RPL29P20 | **RPL29P20** | ribosomal protein L29 ps | pseudogene | 3 | 2 | 4 | 3 | 0.801 |
| 100129337 | gene-EIF4BP2 | **EIF4BP2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 100129340 | gene-LOC10012934 | **LOC100129340** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129345 | NR_033943 | **LINC02291** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129347 | NR_135306 | **LINC00484** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129348 | gene-CDCA4P2 | **CDCA4P2** | cell division cycle associ | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129351 | gene-AGGF1P4 | **AGGF1P4** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129352 | gene-LOC10012935 | **LOC100129352** | protein PAT1 homolog 1- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129354 | NR_024046 | **NRADDP** | neurotrophin receptor as | transcribed_pseu | 1 | 0 | 2 | 1 | 0.906 |
| 100129357 | gene-RPL9P29 | **RPL9P29** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129358 | gene-LOC10012935 | **LOC100129358** | kelch like family member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129361 | NM_001271592 | **SMIM10L1** | small integral membrane | protein_coding | 10 | 10 | 11 | 11 | 1.011 |
| 100129367 | gene-LOC10012936 | **LOC100129367** | nucleolar and coiled-bod | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129368 | gene-HNRNPH1P2 | **HNRNPH1P2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129374 | gene-RPL18P3 | **RPL18P3** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129375 | gene-RNF14P1 | **RNF14P1** | RNF14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129379 | gene-RPS29P17 | **RPS29P17** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129381 | gene-LOC10012938 | **LOC100129381** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.882 |
| 100129382 | gene-THAP12P4 | **THAP12P4** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129384 | gene-LOC10012938 | **LOC100129384** | ankyrin repeat domain-co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129385 | NM_001364979 | **C9orf92** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129387 | NR_024490 | **GABPB1-AS1** | GABPB1 antisense RNA | lncRNA | 7 | 6 | 8 | 7 | 0.843 |
| 100129391 | gene-LOC10012939 | **LOC100129391** | zinc finger CCCH-type, F | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129394 | gene-RPL12P42 | **RPL12P42** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129396 | NM_001348162 | **FAM106C** | family with sequence sim | protein_coding | 1 | 1 | 2 | 2 | 0.887 |
| 100129398 | gene-LPGAT1P1 | **LPGAT1P1** | lysophosphatidylglycerol | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129401 | gene-LYPLA1P1 | **LYPLA1P1** | LYPLA1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129402 | gene-HAUS4P1 | **HAUS4P1** | HAUS augmin like compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129403 | gene-EEF1GP4 | **EEF1GP4** | eukaryotic translation elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129405 | NR_024117 | **MSTO2P** | misato family member 2, | transcribed_pseu | 13 | 15 | 14 | 16 | 1.125 |
| 100129407 | NM_001348070,NM_ | **FAM236A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129418 | gene-RPL31P16 | **RPL31P16** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129422 | gene-LOC10012942 | **LOC100129422** | LSM14A, SCD6 homolog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129423 | gene-EI24P1 | **EI24P1** | EI24 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129424 | NR_026660 | **RPL19P12** | ribosomal protein L19 ps | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129427 | NR_033845 | **DDC-AS1** | DDC antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129428 | gene-RANP5 | **RANP5** | RAN pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129434 | NR_125368 | **LOC100129434** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129438 | gene-ZFRP1 | **ZFRP1** | zinc finger RNA binding p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129454 | gene-SNRPEP1 | **SNRPEP1** | SNRPE pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129455 | XR_241351 | **LOC100129455** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129456 | gene-LOC10012945 | **LOC100129456** | heat shock protein 90 alp | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100129459 | gene-PWWP2AP1 | **PWWP2AP1** | PWWP domain containir | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100129460 | NR_036680 | **DPY19L1P1** | DPY19L1 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129461 | NR_126015,NR_126 | **LYRM4-AS1** | LYRM4 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 0.978 |
| 100129464 | NR_038428 | **LINC01546** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129468 | gene-BOD1P1 | **BOD1P1** | biorientation of chromos | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129471 | gene-LOC10012947 | **LOC100129471** | plastin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129472 | gene-PTP4A1P6 | **PTP4A1P6** | PTP4A1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129478 | gene-LOC10012947 | **LOC100129478** | chromosome 4 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129480 | NM_001195279,NM_ | **MKRN2OS** | MKRN2 opposite strand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129482 | NR_026777 | **ZNF37BP** | zinc finger protein 37B, p | transcribed_pseu | 8 | 7 | 9 | 8 | 0.821 |
| 100129484 | NM_001354886 | **LOC100129484** | uncharacterized LOC100 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129492 | gene-LOC10012949 | **LOC100129492** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.150 |
| 100129497 | gene-LOC10012949 | **LOC100129497** | valosin containing protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129503 | XR_243769 | **LOC100129503** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.016 |
| 100129507 | gene-MAN1A2P1 | **MAN1A2P1** | mannosidase alpha class | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129512 | gene-POU5F1P2 | **POU5F1P2** | POU class 5 homeobox 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129515 | NM_001355519,XM_ | **ETDB** | embryonic testis differen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129516 | NR_145451 | **LINC02012** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.016 |
| 100129517 | gene-RPL26P23 | **RPL26P23** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129518 | NR_037166 | **SOD2-OT1** | SOD2 overlapping transc | lncRNA | 1 | 0 | 2 | 1 | 0.457 |
| 100129520 | NM_001195272 | **TEX13C** | TEX13 family member C | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129526 | gene-LOC10012952 | **LOC100129526** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129527 | gene-LOC10012952 | **LOC100129527** | ESF1, nucleolar pre-rRN | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129528 | XM_024449294 | **MUC8** | mucin 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129534 | NR_024489 | **LOC100129534** | small nuclear ribonucleo | transcribed_pseu | 0 | 0 | 1 | 1 | 0.939 |
| 100129540 | NR_148998 | **LOC100129540** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129542 | gene-RPS29P21 | **RPS29P21** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129543 | NM_001277403,XM_ | **ZNF730** | zinc finger protein 730 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129550 | NR_024618 | **LINC02035** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.883 |
| 100129552 | gene-RPS26P38 | **RPS26P38** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129553 | gene-RPL13AP16 | **RPL13AP16** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129554 | gene-LOC10012955 | **LOC100129554** | thyroid hormone recepto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129555 | gene-HMGN1P7 | **HMGN1P7** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129556 | gene-RPS10P27 | **RPS10P27** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129561 | gene-MYL6P3 | **MYL6P3** | myosin light chain 6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129564 | gene-PTP4A1P4 | **PTP4A1P4** | PTP4A1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129566 | gene-SNRPCP2 | **SNRPCP2** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129570 | gene-PEBP1P3 | **PEBP1P3** | phosphatidylethanolamir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129573 | gene-LOC10012957 | **LOC100129573** | tRNA methyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129574 | gene-LOC10012957 | **LOC100129574** | chromosome 12 open re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129577 | gene-LOC10012957 | **LOC100129577** | mitochondrial carrier 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129583 | NM_001136570,NM_ | **FAM47E** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.112 |
| 100129584 | gene-RPL17P44 | **RPL17P44** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129586 | gene-LOC10012958 | **LOC100129586** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129591 | gene-RPL29P24 | **RPL29P24** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 100129594 | gene-FAM8A3P | **FAM8A3P** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129595 | gene-PRUNEP1 | **PRUNEP1** | prune exopolyphosphata | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129597 | NR_051983 | **LINC00462** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.136 |
| 100129601 | gene-LOC10012960 | **LOC100129601** | cell division cycle associ | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129603 | NR_126024 | **LOC100129603** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129604 | gene-PABPC1P12 | **PABPC1P12** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129617 | NR_045112 | **LOC100129617** | uncharacterized LOC100 | lncRNA | 1 | 0 | 2 | 1 | 0.846 |
| 100129618 | gene-THAP5P2 | **THAP5P2** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129620 | NR_033940 | **LOC100129620** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129622 | gene-RSU1P1 | **RSU1P1** | Ras suppressor protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129626 | gene-LOC10012962 | **LOC100129626** | translocase of outer mito | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129629 | gene-EIF2S2P6 | **EIF2S2P6** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129634 | gene-RPL9P19 | **RPL9P19** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129636 | NR_125387 | **LOC100129636** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100129640 | gene-DDX55P1 | **DDX55P1** | DEAD-box helicase 55 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129641 | gene-BTG1P1 | **BTG1P1** | BTG anti-proliferation fac | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129646 | gene-LOC10012964 | **LOC100129646** | intraflagellar transport 57 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129647 | gene-RPL5P35 | **RPL5P35** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129649 | gene-PGDP2 | **PGDP2** | phosphogluconate dehy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129650 | gene-RPS26P55 | **RPS26P55** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129654 | NM_001193502,XM | **TCF24** | transcription factor 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129657 | gene-RPL17P18 | **RPL17P18** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 100129661 | gene-LOC10012966 | **LOC100129661** | HCLS1 associated protei | pseudogene | 0 | 0 | 1 | 1 | 0.965 |
| 100129662 | NR_038405 | **FGF13-AS1** | FGF13 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129664 | gene-PRELID3BP1 | **PRELID3BP1** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129669 | NM_001271706,NM | **IZUMO3** | IZUMO family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129670 | gene-RPL18P8 | **RPL18P8** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129682 | gene-LOC10012968 | **LOC100129682** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129685 | gene-RPL21P125 | **RPL21P125** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.060 |
| 100129690 | gene-RAD1P2 | **RAD1P2** | RAD1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129692 | gene-EIF4BP9 | **EIF4BP9** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129693 | gene-LOC10012969 | **LOC100129693** | mitochondrial ribosomal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129694 | gene-R3HDM2P2 | **R3HDM2P2** | R3H domain containing 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129696 | gene-INHCAP | **INHCAP** | inhibitor of carbonic anh | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129697 | NR_168285 | **LOC100129697** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129707 | gene-LOC10012970 | **LOC100129707** | presenilin associated rho | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129708 | gene-IPO7P1 | **IPO7P1** | importin 7 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129714 | gene-RCC2P8 | **RCC2P8** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129716 | NR_027435 | **ARRDC3-AS1** | ARRDC3 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.996 |
| 100129718 | gene-RPS13P3 | **RPS13P3** | ribosomal protein S13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129722 | NR_038389 | **STPG3-AS1** | STPG3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 100129724 | NR_149018 | **MAPRE3-AS1** | MAPRE3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129725 | gene-LOC10012972 | **LOC100129725** | PERP, TP53 apoptosis e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129726 | NR_027251 | **LINC01126** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.801 |
| 100129727 | gene-TMED10P2 | **TMED10P2** | transmembrane p24 traff | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129728 | gene-LOC10012972 | **LOC100129728** | nucleic acid binding prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129731 | gene-RAB11AP1 | **RAB11AP1** | RAB11A, member RAS o | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129734 | gene-LOC10012973 | **LOC100129734** | zinc finger AN1-type con | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129736 | gene-CDV3P1 | **CDV3P1** | CDV3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129738 | gene-SETP9 | **SETP9** | SET pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 0.915 |
| 100129739 | gene-DYNLL1P4 | **DYNLL1P4** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129742 | gene-RPS3AP13 | **RPS3AP13** | RPS3A pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129755 | gene-RSL24D1P1 | **RSL24D1P1** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129761 | gene-AMD1P4 | **AMD1P4** | adenosylmethionine dec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129769 | gene-AKR1B1P6 | **AKR1B1P6** | aldo-keto reductase fami | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129772 | gene-TMPOP1 | **TMPOP1** | thymopoietin pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129774 | gene-LOC10012977 | **LOC100129774** | ATPase family AAA dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129781 | NR_132983,NR_13 | **MIR193BHG** | MIR193B host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129784 | gene-RPL17P26 | **RPL17P26** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129792 | NM_001134848 | **CCDC152** | coiled-coil domain conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129793 | gene-TLK1P1 | **TLK1P1** | tousled like kinase 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129794 | NR_033240 | **SLC25A21-AS1** | SLC25A21 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129796 | gene-RPL13P13 | **RPL13P13** | ribosomal protein L13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129800 | NR_146880 | **ZNF807P** | zinc finger protein 807, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.124 |
| 100129801 | gene-RPL12P37 | **RPL12P37** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 100129819 | gene-RPL22P7 | **RPL22P7** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129824 | gene-PIP5K1P2 | **PIP5K1P2** | phosphatidylinositol-4-ph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129827 | NR_034093,NR_03 | **IRAG1-AS1** | IRAG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.111 |
| 100129836 | NM_001267044 | **COL4A2-AS2** | COL4A2 antisense 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129842 | NM_001159293,XM | **ZNF737** | zinc finger protein 737 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129844 | gene-LOC10012984 | **LOC100129844** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129845 | NR_038910 | **PCOLCE-AS1** | PCOLCE antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129853 | gene-DNAJC19P1 | **DNAJC19P1** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129854 | gene-LOC10012985 | **LOC100129854** | arginase 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129856 | gene-RPL37AP5 | **RPL37AP5** | ribosomal protein L37a p | pseudogene | 0 | 0 | 1 | 1 | 1.212 |
| 100129858 | NR_033939 | **SCOC-AS1** | SCOC antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.961 |
| 100129861 | gene-RSL24D1P7 | **RSL24D1P7** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129863 | gene-SUCLA2P2 | **SUCLA2P2** | SUCLA2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129866 | gene-EI24P2 | **EI24P2** | EI24 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129867 | gene-RPL30P14 | **RPL30P14** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129871 | gene-GRPEL2P3 | **GRPEL2P3** | GRPEL2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.974 |
| 100129878 | NR_148999 | **LOC100129878** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129882 | gene-RPL31P49 | **RPL31P49** | ribosomal protein L31 ps | pseudogene | 1 | 0 | 2 | 1 | 0.634 |
| 100129902 | gene-RPS29P11 | **RPS29P11** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129905 | gene-RPS27P19 | **RPS27P19** | ribosomal protein S27 ps | pseudogene | 1 | 1 | 2 | 2 | 1.149 |
| 100129917 | NR_036511,NR_03 | **LOC100129917** | uncharacterized LOC100 | lncRNA | 9 | 8 | 10 | 9 | 0.821 |
| 100129920 | gene-HNRNPA1P40 | **HNRNPA1P40** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100129921 | gene-RPL15P4 | **RPL15P4** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129924 | NM_001354602 | **TMEM269** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.015 |
| 100129926 | gene-RPL12P13 | **RPL12P13** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129929 | gene-NUP210P2 | **NUP210P2** | nucleoporin 210 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129930 | gene-RPL10P10 | **RPL10P10** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129931 | NR_033828 | **LOC100129931** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.947 |
| 100129933 | gene-GLYATL1P2 | **GLYATL1P2** | glycine-N-acyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129934 | gene-RPL34P14 | **RPL34P14** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129935 | NR_026870 | **LOC100129935** | galectin 14 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100129937 | gene-KNOP1P1 | **KNOP1P1** | lysine rich nucleolar prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129939 | gene-RPS10P31 | **RPS10P31** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129940 | NR_120478,NR_15 | **HMGA2-AS1** | HMGA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129941 | gene-RSL24D1P5 | **RSL24D1P5** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129942 | gene-LOC10012994 | **LOC100129942** | capping actin protein of | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129948 | gene-LOC10012994 | **LOC100129948** | riboflavin kinase pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129952 | gene-RPL39P10 | **RPL39P10** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129955 | gene-RRN3P4 | **RRN3P4** | RRN3 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129956 | gene-LOC10012995 | **LOC100129956** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129958 | gene-KRT8P44 | **KRT8P44** | keratin 8 pseudogene 44 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129960 | gene-SDCBPP2 | **SDCBPP2** | syndecan binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129961 | NR_036549 | **CCNT2-AS1** | CCNT2 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.037 |
| 100129969 | NM_001309426,NM | **FAM205C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100129973 | NR_102751 | **CERNA1** | competing endogenous I | lncRNA | 0 | 1 | 1 | 2 | 1.402 |
| 100129975 | gene-RPL10P15 | **RPL10P15** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.247 |
| 100129982 | gene-RPL12P19 | **RPL12P19** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129983 | gene-UBE2CP3 | **UBE2CP3** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129989 | gene-LOC10012998 | **LOC100129989** | chromosome 12 open re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129991 | gene-RPL38P2 | **RPL38P2** | RPL38 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129994 | gene-GRPEL2P2 | **GRPEL2P2** | GRPEL2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129995 | NR_135200 | **LINC01460** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100129996 | gene-MTRES1P1 | **MTRES1P1** | MTRES1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100129998 | gene-RPL5P27 | **RPL5P27** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130001 | gene-LOC10013000 | **LOC100130001** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130002 | gene-HNRNPA1P23 | **HNRNPA1P23** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130003 | gene-SNRPGP2 | **SNRPGP2** | small nuclear ribonucleo | pseudogene | 0 | 1 | 1 | 2 | 1.167 |
| 100130006 | gene-EIF4A1P11 | **EIF4A1P11** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130009 | gene-HMGA1P8 | **HMGA1P8** | high mobility group AT-h | pseudogene | 2 | 3 | 3 | 4 | 1.179 |
| 100130014 | gene-SETP5 | **SETP5** | SET pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130015 | NR_027335,NR_02 | **URAHP** | urate (hydroxyiso-) hydro | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130017 | NR_015446 | **FTLP10** | ferritin light chain pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130018 | gene-LOC10013001 | **LOC100130018** | prostaglandin reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130026 | gene-RPL38P5 | **RPL38P5** | RPL38 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130027 | NR_147501 | **LOC100130027** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130029 | gene-HMGA1P6 | **HMGA1P6** | high mobility group AT-h | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 100130034 | gene-RPL36AP12 | **RPL36AP12** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130038 | gene-OSBPL9P2 | **OSBPL9P2** | oxysterol binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130042 | gene-MTHFD2P6 | **MTHFD2P6** | methylenetetrahydrofola | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130043 | gene-SETP17 | **SETP17** | SET pseudogene 17 | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 100130044 | gene-LOC10013004 | **LOC100130044** | cilia and flagella associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130048 | gene-LOC10013004 | **LOC100130048** | H1.8 linker histone pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130049 | gene-LOC10013004 | **LOC100130049** | ribosomal L1 domain-cor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130060 | gene-GNPATP | **GNPATP** | glyceronephosphate O-a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130064 | gene-EIF4BP4 | **EIF4BP4** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100130066 | gene-RPL9P22 | **RPL9P22** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130067 | gene-HPRT1P1 | **HPRT1P1** | hypoxanthine phosphorit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130070 | gene-RPS27P13 | **RPS27P13** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.145 |
| 100130075 | NR_073494 | **LOC100130075** | SUZ RNA binding domai | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130086 | NM_001164415 | **HSFX2** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.173 |
| 100130088 | gene-LOC10013008 | **LOC100130088** | STN1, CST complex sub | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130090 | gene-SFR1P1 | **SFR1P1** | SFR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130102 | gene-WBP11P2 | **WBP11P2** | WBP11 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130105 | gene-TRIM51CP | **TRIM51CP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130106 | gene-RPS23P7 | **RPS23P7** | ribosomal protein S23 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130108 | gene-ZNF849P | **ZNF849P** | zinc finger protein 849, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130109 | gene-SNRPEP4 | **SNRPEP4** | SNRPE pseudogene 4 | pseudogene | 1 | 2 | 2 | 3 | 1.240 |
| 100130110 | gene-ZSWIM5P1 | **ZSWIM5P1** | zinc finger SWIM-type cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130111 | NR_135221 | **LOC100130111** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130114 | gene-LOC10013011 | **LOC100130114** | Spi-C transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130117 | gene-DDX6P2 | **DDX6P2** | DEAD-box helicase 6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130119 | gene-LAMTOR3P1 | **LAMTOR3P1** | late endosomal/lysosoma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130134 | gene-STAU2P1 | **STAU2P1** | staufen double-stranded | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130139 | gene-UBE2D3P2 | **UBE2D3P2** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130148 | NR_024560 | **MAPT-IT1** | MAPT intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130155 | NR_034102,NR_03 | **MIR124-2HG** | MIR124-2 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130158 | gene-KNOP1P5 | **KNOP1P5** | lysine rich nucleolar prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130167 | gene-NUS1P4 | **NUS1P4** | NUS1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130171 | gene-JPT1P1 | **JPT1P1** | JPT1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130172 | NR_037900 | **LOC100130172** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 100130178 | gene-LSM3P4 | **LSM3P4** | LSM3 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130180 | gene-LOC10013018 | **LOC100130180** | nuclear factor, erythroid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130183 | gene-RPS24P19 | **RPS24P19** | ribosomal protein S24 ps | pseudogene | 3 | 3 | 4 | 4 | 1.027 |
| 100130190 | gene-SRRM1P3 | **SRRM1P3** | serine/arginine repetitive | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130196 | gene-HNRNPCP9 | **HNRNPCP9** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130197 | NR_038827,NR_03 | **EFCAB14-AS1** | EFCAB14 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130204 | gene-NIPA2P2 | **NIPA2P2** | NIPA2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130207 | NR_149025 | **LOC100130207** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130209 | gene-CHMP4AP1 | **CHMP4AP1** | CHMP4A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130210 | gene-LOC10013021 | **LOC100130210** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130211 | gene-EEF1A1P29 | **EEF1A1P29** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 100130225 | gene-RPL13P11 | **RPL13P11** | ribosomal protein L13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130231 | NR_038446,NR_03 | **LINC00861** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130234 | gene-EEF1A1P27 | **EEF1A1P27** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130235 | gene-KATNBL1P2 | **KATNBL1P2** | katanin regulatory subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130238 | NR_024563 | **LOC100130238** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130239 | gene-UBA52P6 | **UBA52P6** | ubiquitin A-52 residue rib | pseudogene | 2 | 4 | 3 | 5 | 1.392 |
| 100130249 | NR_148962 | **PP2672** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130251 | gene-NXNP1 | **NXNP1** | nucleoredoxin pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130253 | gene-RCBTB2P1 | **RCBTB2P1** | RCC1 and BTB domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130256 | XR_001739769,XR_ | **LOC100130256** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130259 | gene-SALL4P2 | **SALL4P2** | spalt like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130260 | gene-EEF1GP2 | **EEF1GP2** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130264 | NR_024564 | **SLC24A3-AS1** | SLC24A3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130265 | gene-ARL2BPP4 | **ARL2BPP4** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130268 | NR_149000 | **LOC100130268** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130270 | gene-LOC10013027 | **LOC100130270** | NDUFA4, mitochondrial c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130274 | NM_001162914 | **CCDC166** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130275 | NR_033910 | **TFAP2A-AS1** | TFAP2A antisense RNA | lncRNA | 6 | 8 | 7 | 9 | 1.264 |
| 100130277 | gene-CDC27P2 | **CDC27P2** | cell division cycle 27 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130283 | NR_147908 | **LOC100130283** | uncharacterized LOC100 | lncRNA | 3 | 3 | 4 | 4 | 1.045 |
| 100130286 | gene-RPL34P11 | **RPL34P11** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130289 | gene-SNRPGP10 | **SNRPGP10** | small nuclear ribonucleo | pseudogene | 0 | 1 | 1 | 2 | 1.513 |
| 100130298 | NR_034003 | **LOC100130298** | hCG1816373-like | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130299 | gene-IDI1P2 | **IDI1P2** | IDI1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130301 | NM_001243237,XM | **C8orf89** | chromosome 8 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130302 | NM_001136234 | **SUPT20HL1** | SUPT20H like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130310 | gene-MSANTD2P1 | **MSANTD2P1** | Myb/SANT DNA binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130311 | NM_001145536 | **C17orf107** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130316 | gene-SELENOTP2 | **SELENOTP2** | selenoprotein T pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130321 | gene-LOC10013032 | **LOC100130321** | DNA fragmentation facto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130326 | gene-LOC10013032 | **LOC100130326** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130327 | gene-NDUFA5P5 | **NDUFA5P5** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130331 | NR_027247 | **LOC100130331** | POTE ankyrin domain fa | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130335 | gene-NAP1L1P3 | **NAP1L1P3** | nucleosome assembly pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130338 | gene-PABPC1P9 | **PABPC1P9** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130342 | NR_045208 | **SCGB2B3P** | secretoglobin family 2B r | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130345 | XR_001740727,XR_ | **LOC100130345** | cadherin-related family n | misc_RNA | 0 | 0 | 1 | 1 | 1.054 |
| 100130347 | gene-RPS6P5 | **RPS6P5** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130348 | NM_001242631,NM | **TMEM262** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 0.884 |
| 100130353 | gene-LOC10013035 | **LOC100130353** | major facilitator superfan | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100130357 | NR_134859,NR_16( | **LOC100130357** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.019 |
| 100130359 | gene-MED28P4 | **MED28P4** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130361 | NM_001145140 | **CXorf49** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130368 | gene-SNRPGP4 | **SNRPGP4** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130370 | NR_164137,NR_164 | **LOC100130370** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130373 | NR_147703 | **LOC100130373** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130376 | gene-MTRF1LP2 | **MTRF1LP2** | mitochondrial translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130383 | gene-HIGD1AP12 | **HIGD1AP12** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.189 |
| 100130384 | gene-CENPUP1 | **CENPUP1** | centromere protein U pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130386 | NR_028064 | **LINC00552** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130388 | gene-EEF1E1P1 | **EEF1E1P1** | eukaryotic translation elc | pseudogene | 3 | 2 | 4 | 3 | 0.748 |
| 100130392 | gene-RPL9P20 | **RPL9P20** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130394 | gene-LOC10013039 | **LOC100130394** | translation machinery as | pseudogene | 6 | 5 | 7 | 6 | 0.854 |
| 100130396 | gene-ATP5MGP4 | **ATP5MGP4** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130400 | gene-RPL21P92 | **RPL21P92** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130402 | gene-B3GALNT2P1 | **B3GALNT2P1** | beta-1,3-N-acetylgalacto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130403 | gene-RPA3P2 | **RPA3P2** | RPA3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130405 | gene-HMGB3P26 | **HMGB3P26** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130417 | NR_026874,NR_12 | **LINC02593** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130418 | NR_015352,NR_15 | **CECR7** | cat eye syndrome chrom | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 100130435 | gene-RPS7P13 | **RPS7P13** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130437 | gene-LOC10013043 | **LOC100130437** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130447 | gene-RPL12P16 | **RPL12P16** | ribosomal protein L12 ps | pseudogene | 2 | 7 | 3 | 8 | 3.060 |
| 100130448 | gene-MRS2P1 | **MRS2P1** | MRS2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130449 | NR_161169 | **LOC100130449** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130450 | gene-RPL3P5 | **RPL3P5** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130451 | NR_144752,NR_16 | **SPAG16-DT** | SPAG16 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130452 | NR_034036 | **LOC100130452** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130459 | gene-LOC10013045 | **LOC100130459** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130460 | NR_103765 | **CAND1.11** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130461 | gene-CBX1P4 | **CBX1P4** | chromobox 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130462 | gene-HNF4GP1 | **HNF4GP1** | hepatocyte nuclear facto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130466 | gene-NUCKS1P1 | **NUCKS1P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130476 | NR_049793 | **WAKMAR2** | wound and keratinocyte | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 100130480 | NR_120518 | **LINC01387** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130481 | gene-CCT6P4 | **CCT6P4** | chaperonin containing T( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130484 | gene-UBFD1P1 | **UBFD1P1** | ubiquitin family domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130485 | gene-LOC10013048 | **LOC100130485** | FKBP prolyl isomerase 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130487 | gene-LOC10013048 | **LOC100130487** | WD repeat domain 89 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130495 | gene-RPS12P26 | **RPS12P26** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130497 | gene-DNAJB6P4 | **DNAJB6P4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130500 | gene-LOC10013050 | **LOC100130500** | S-phase kinase associat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130514 | gene-PGAM1P1 | **PGAM1P1** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130519 | NM_001190844,XM | **TMEM221** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130520 | NM_001324073,NM | **CD300H** | CD300c molecule-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130522 | NR_028339,NR_028 | **PARD6G-AS1** | PARD6G antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130523 | gene-RPL5P8 | **RPL5P8** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130524 | gene-RPL6P23 | **RPL6P23** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.058 |
| 100130528 | gene-SUCLG2P4 | **SUCLG2P4** | SUCLG2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130531 | gene-LOC10013053 | **LOC100130531** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.006 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100130532 | gene-LOC10013053 | **LOC100130532** | F-box protein 38 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130537 | gene-RPL31P26 | **RPL31P26** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.052 |
| 100130539 | NR_164139 | **LINC02881** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130548 | NR_135126 | **LOC100130548** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130549 | gene-ISCA1P6 | **ISCA1P6** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.008 |
| 100130550 | gene-LOC10013055 | **LOC100130550** | g2/M phase-specific E3 u | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130557 | NR_024567 | **NFYC-AS1** | NFYC antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 1.023 |
| 100130561 | gene-HMGB1P10 | **HMGB1P10** | high mobility group box 1 | pseudogene | 42 | 40 | 43 | 41 | 0.950 |
| 100130562 | gene-RPS2P5 | **RPS2P5** | ribosomal protein S2 pse | pseudogene | 329 | 344 | 330 | 345 | 1.045 |
| 100130564 | gene-SEPTIN7P7 | **SEPTIN7P7** | septin 7 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130572 | gene-RAD23BP2 | **RAD23BP2** | RAD23B pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130579 | gene-PHBP20 | **PHBP20** | prohibitin pseudogene 2( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130581 | NR_027412,NR_027 | **LINC00910** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.933 |
| 100130582 | gene-LOC10013058 | **LOC100130582** | myosin light chain 9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130584 | gene-CLIC4P2 | **CLIC4P2** | chloride intracellular cha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130587 | NR_110634 | **LOC100130587** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130602 | gene-LOC10013060 | **LOC100130602** | regulation of nuclear pre | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130603 | gene-RBM22P13 | **RBM22P13** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130607 | gene-LOC10013060 | **LOC100130607** | WD repeat domain 4 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130613 | NM_001122716 | **PRR32** | proline rich 32 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130618 | gene-LOC10013061 | **LOC100130618** | tetratricopeptide repeat c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130621 | gene-RANP4 | **RANP4** | RAN pseudogene 4 | pseudogene | 1 | 0 | 2 | 1 | 0.602 |
| 100130624 | gene-RPL15P22 | **RPL15P22** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 0.977 |
| 100130639 | gene-LOC10013063 | **LOC100130639** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130640 | gene-YWHAZP7 | **YWHAZP7** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100130649 | gene-GPR160P1 | **GPR160P1** | GPR160 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130660 | gene-HNRNPA1P45 | **HNRNPA1P45** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130671 | gene-IFNWP9 | **IFNWP9** | interferon omega 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130673 | NR_038454 | **LOC100130673** | phosphoribosyl pyrophos | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130674 | gene-LOC10013067 | **LOC100130674** | cathepsin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130676 | gene-RPSAP38 | **RPSAP38** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130680 | gene-ANKRD49P4 | **ANKRD49P4** | ANKRD49 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130682 | gene-USP12P2 | **USP12P2** | USP12 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130683 | gene-LOC10013068 | **LOC100130683** | chromatin assembly fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130684 | gene-LOC10013068 | **LOC100130684** | fibrous sheath interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130691 | NR_026966 | **LOC100130691** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.857 |
| 100130693 | gene-ARHGAP42P2 | **ARHGAP42P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130698 | NR_136612 | **LOC100130698** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130699 | gene-RSL24D1P10 | **RSL24D1P10** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130700 | NR_034018,NR_034 | **TP53TG3HP** | TP53 target 3 family mer | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130701 | XR_001740865,XR_ | **LOC100130701** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130704 | gene-CAPZA1P4 | **CAPZA1P4** | CAPZA1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130705 | NM_001195150 | **ATP6V1FNB** | ATP6V1F neighbor | protein_coding | 2 | 2 | 3 | 3 | 1.026 |
| 100130717 | NR_024482,NR_024 | **HDHD5-AS1** | HDHD5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130718 | gene-RPL34P26 | **RPL34P26** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130721 | gene-RSL24D1P3 | **RSL24D1P3** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130724 | gene-CCNYL5 | **CCNYL5** | cyclin Y like 5 (pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130733 | NM_181506 | **LRRC70** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 0.945 |
| 100130742 | NM_001129890,NM | **LRRC69** | leucine rich repeat conta | protein_coding | 2 | 1 | 3 | 2 | 0.721 |
| 100130744 | NR_046285 | **LOC100130744** | uncharacterized LOC100 | lncRNA | 0 | 2 | 1 | 3 | 2.712 |
| 100130746 | gene-LOC10013074 | **LOC100130746** | AKT interacting protein p | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 100130747 | gene-LOC10013074 | **LOC100130747** | N-acetylneuraminic acid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130748 | gene-LOC10013074 | **LOC100130748** | 3-hydroxyisobutyryl-CoA | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130750 | gene-RPS8P9 | **RPS8P9** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130758 | gene-METTL15P1 | **METTL15P1** | methyltransferase like 15 | pseudogene | 2 | 2 | 3 | 3 | 0.999 |
| 100130766 | gene-MTA3P1 | **MTA3P1** | MTA3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130771 | NM_001355526,NM | **EFCAB10** | EF-hand calcium binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130775 | gene-RPS27P23 | **RPS27P23** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 100130776 | NR_027032 | **AGAP2-AS1** | AGAP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 100130783 | gene-NDUFAF2P2 | **NDUFAF2P2** | NDUFAF2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130785 | gene-SALL4P5 | **SALL4P5** | spalt like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130786 | gene-RPS3AP22 | **RPS3AP22** | RPS3A pseudogene 22 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130792 | gene-RPL29P27 | **RPL29P27** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130794 | gene-NDUFS5P7 | **NDUFS5P7** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130799 | gene-SRSF10P1 | **SRSF10P1** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 100130801 | gene-LOC10013080 | **LOC100130801** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130802 | gene-RPL39P13 | **RPL39P13** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130820 | gene-CCNG1P1 | **CCNG1P1** | cyclin G1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130821 | gene-OSBPL9P1 | **OSBPL9P1** | oxysterol binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130827 | NM_001199824,XM | **SBK3** | SH3 domain binding kina | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130849 | NR_038450 | **LOC100130849** | phosphorylase kinase ca | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130854 | gene-LOC10013085 | **LOC100130854** | zinc finger protein 562 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130855 | NR_034080 | **USP3-AS1** | USP3 antisense RNA 1 | lncRNA | 1 | 3 | 2 | 4 | 1.641 |
| 100130861 | gene-LOC10013086 | **LOC100130861** | zinc finger protein 736 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130866 | gene-IFNWP15 | **IFNWP15** | interferon omega 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130871 | gene-ARMC8P1 | **ARMC8P1** | armadillo repeat containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130872 | NR_024569 | **LOC100130872** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 100130879 | gene-ZNRF2P3 | **ZNRF2P3** | zinc and ring finger 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130880 | NR_161346 | **CREB3L2-AS1** | CREB3L2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130887 | NR_120495 | **ATE1-AS1** | ATE1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 100130889 | NR_026816,NR_152 | **PSORS1C3** | psoriasis susceptibility 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130890 | NM_001195131,XM | **TSTD3** | thiosulfate sulfurtransfer | protein_coding | 9 | 7 | 10 | 8 | 0.834 |
| 100130891 | gene-LOC10013089 | **LOC100130891** | PDZ and LIM domain 7 (e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130892 | gene-RPL7P32 | **RPL7P32** | ribosomal protein L7 pse | pseudogene | 2 | 3 | 3 | 4 | 1.183 |
| 100130894 | NR_034083 | **VAC14-AS1** | VAC14 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130898 | gene-FLYWCH1P1 | **FLYWCH1P1** | FLYWCH-type zinc finge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130909 | gene-LOC10013090 | **LOC100130909** | ribonuclease T2 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130922 | gene-RPL22P22 | **RPL22P22** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130923 | gene-PSMA2P1 | **PSMA2P1** | proteasome subunit alph | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130929 | gene-RPL5P33 | **RPL5P33** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130932 | gene-SNRPGP15 | **SNRPGP15** | small nuclear ribonucleo | pseudogene | 1 | 2 | 2 | 3 | 1.296 |
| 100130933 | NM_001162997 | **SMIM6** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130934 | NR_045983 | **ZNF663P** | zinc finger protein 663, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130935 | NR_073432 | **CSAG4** | CSAG family member 4 ( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100130950 | NR_034082,NR_152 | **LOC100130950** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 100130954 | NR_034016,NR_034 | **LINC01502** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130958 | NM_001129979,NM | **SYCE1L** | synaptonemal complex c | protein_coding | 0 | 0 | 1 | 1 | 0.944 |
| 100130962 | gene-ATP5MC1P7 | **ATP5MC1P7** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130963 | gene-RPL38P4 | **RPL38P4** | RPL38 pseudogene 4 | pseudogene | 3 | 4 | 4 | 5 | 1.141 |
| 100130964 | NR_046245 | **LOC100130964** | ADAM metallopeptidase | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100130967 | NR_160976,NR_160 | **C6orf99** | chromosome 6 open rea | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 100130968 | gene-RPL7L1P4 | **RPL7L1P4** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130970 | gene-CTBP2P2 | **CTBP2P2** | CTBP2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130972 | gene-PPP1R2P6 | **PPP1R2P6** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130980 | gene-RPS2P35 | **RPS2P35** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130983 | gene-RPL26P28 | **RPL26P28** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130987 | NR_024469 | **LOC100130987** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.619 |
| 100130988 | NM_001161834,XM | **SPATA48** | spermatogenesis associa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100130990 | gene-LOC10013099 | **LOC100130990** | zinc finger protein 561-lik | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130992 | NR_038921 | **LOC100130992** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.068 |
| 100130994 | gene-UQCRFS1P3 | **UQCRFS1P3** | ubiquinol-cytochrome c r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130995 | gene-ZNF969P | **ZNF969P** | zinc finger protein 969, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100130996 | gene-YPEL5P1 | **YPEL5P1** | YPEL5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131011 | gene-LOC10013101 | **LOC100131011** | myotubularin related pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131013 | gene-LOC10013101 | **LOC100131013** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131017 | NM_001278559,XM | **ZNF316** | zinc finger protein 316 | protein_coding | 17 | 18 | 18 | 19 | 1.067 |
| 100131027 | gene-SLC25A5P4 | **SLC25A5P4** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131033 | gene-PPIGP1 | **PPIGP1** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131036 | gene-HMGB3P28 | **HMGB3P28** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131038 | gene-LOC10013103 | **LOC100131038** | GC-rich promoter bindin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131046 | gene-SALL4P3 | **SALL4P3** | spalt like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131047 | NR_038401 | **DNAH8-AS1** | DNAH8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131060 | NR_034014,NR_034 | **LINC01135** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.927 |
| 100131067 | NR_034121,NR_034 | **CKMT2-AS1** | CKMT2 antisense RNA 1 | lncRNA | 7 | 8 | 8 | 9 | 1.102 |
| 100131078 | gene-MOB4P2 | **MOB4P2** | MOB4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131080 | gene-LOC10013108 | **LOC100131080** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100131083 | gene-RPS8P5 | **RPS8P5** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131084 | gene-DNM1P17 | **DNM1P17** | dynamin 1 pseudogene : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131085 | gene-RPL7P12 | **RPL7P12** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131087 | gene-RPLP1P11 | **RPLP1P11** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 0.819 |
| 100131089 | NR_040059,NR_04( | **SRP14-AS1** | SRP14 antisense RNA1 ( | lncRNA | 8 | 12 | 9 | 13 | 1.338 |
| 100131092 | gene-ISCA1P3 | **ISCA1P3** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131094 | NR_164163 | **DPP9-AS1** | DPP9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131107 | NM_001310142 | **LOC100131107** | putative UPF0607 protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131114 | gene-SRSF3P4 | **SRSF3P4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131117 | NR_038993 | **ZBTB20-AS1** | ZBTB20 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131124 | gene-LOC10013112 | **LOC100131124** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131127 | gene-LOC10013112 | **LOC100131127** | delta 4-desaturase, sphi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131130 | gene-HNRNPA1P13 | **HNRNPA1P13** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131135 | gene-MTHFD2P4 | **MTHFD2P4** | methylenetetrahydrofola | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131137 | NM_001128326,XM_ | **BSPH1** | binder of sperm protein h | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131138 | NR_036513 | **LINC01405** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131143 | gene-RPL23AP19 | **RPL23AP19** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131146 | gene-LOC10013114 | **LOC100131146** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131151 | gene-RPLP0P8 | **RPLP0P8** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131160 | gene-RPL39P20 | **RPL39P20** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131161 | gene-RPSAP39 | **RPSAP39** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 100131173 | gene-RPS29P12 | **RPS29P12** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131176 | NR_034012,NR_03( | **WDR86-AS1** | WDR86 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131183 | gene-HMGN2P30 | **HMGN2P30** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.037 |
| 100131187 | NM_001113205,NM | **TSTD1** | thiosulfate sulfurtransfer | protein_coding | 84 | 89 | 85 | 90 | 1.066 |
| 100131188 | gene-LIPT1P1 | **LIPT1P1** | lipoyltransferase 1 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131193 | NR_024580 | **CCDC183-AS1** | CCDC183 antisense RN/ | lncRNA | 5 | 4 | 6 | 5 | 0.875 |
| 100131196 | gene-RPS25P8 | **RPS25P8** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131200 | gene-LOC10013120 | **LOC100131200** | mannose-6-phosphate re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131205 | NR_026911 | **RPL21P28** | ribosomal protein L21 ps | transcribed_pseu | 5 | 6 | 6 | 7 | 1.158 |
| 100131206 | gene-RPL29P16 | **RPL29P16** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131207 | gene-DNAJA1P2 | **DNAJA1P2** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131208 | NR_040710 | **SNAP25-AS1** | SNAP25 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131211 | NM_001142645,NR_ | **NEMP2** | nuclear envelope integra | protein_coding | 11 | 12 | 12 | 13 | 1.041 |
| 100131213 | NR_024421,NR_02 | **ZNF503-AS2** | ZNF503 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131216 | gene-LOC10013121 | **LOC100131216** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131223 | gene-LOC10013122 | **LOC100131223** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131230 | gene-RPL30P4 | **RPL30P4** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131233 | gene-LOC10013123 | **LOC100131233** | AKT interacting protein p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131234 | NR_040073 | **MIR181A1HG** | MIR181A1 host gene | lncRNA | 1 | 2 | 2 | 3 | 1.479 |
| 100131236 | gene-PCBP2P3 | **PCBP2P3** | poly(rC) binding protein : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131244 | NM_001190479 | **ANKRD63** | ankyrin repeat domain 6 | protein_coding | 0 | 0 | 1 | 1 | 1.017 |
| 100131246 | gene-RPL9P27 | **RPL9P27** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 100131250 | gene-SPCS2P1 | **SPCS2P1** | signal peptidase comple | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 100131252 | gene-PRXL2AP2 | **PRXL2AP2** | peroxiredoxin like 2A pse | pseudogene | 0 | 0 | 1 | 1 | 1.098 |
| 100131254 | gene-LOC10013125 | **LOC100131254** | ESF1, nucleolar pre-rRN | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131257 | NR_034022 | **LOC100131257** | zinc finger protein 655 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100131261 | gene-PNRC2P1 | **PNRC2P1** | proline rich nuclear rece | pseudogene | 15 | 14 | 16 | 15 | 0.896 |
| 100131264 | gene-LOC10013126 | **LOC100131264** | prefoldin subunit 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131268 | gene-TPT1P1 | **TPT1P1** | tumor protein, translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131279 | gene-C2orf69P3 | **C2orf69P3** | chromosome 2 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131280 | gene-LOC10013128 | **LOC100131280** | integrin alpha FG-GAP r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131284 | gene-PSMD14P1 | **PSMD14P1** | PSMD14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131286 | gene-RPS19P5 | **RPS19P5** | ribosomal protein S19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131289 | NR_038929 | **LOC100131289** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131294 | gene-LOC10013129 | **LOC100131294** | RAB13, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131302 | gene-PTCD2P1 | **PTCD2P1** | pentatricopeptide repeat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131303 | NM_001282442 | **DPEP2NB** | DPEP2 neighbor | protein_coding | 0 | 0 | 1 | 1 | 1.084 |
| 100131309 | gene-THAP12P9 | **THAP12P9** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131315 | NR_109767 | **LOC100131315** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131320 | NR_036537 | **RAB6C-AS1** | RAB6C antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131327 | gene-UQCRC2P1 | **UQCRC2P1** | ubiquinol-cytochrome c r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131328 | gene-FAM210CP | **FAM210CP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131338 | gene-RPL15P13 | **RPL15P13** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131339 | gene-RPL32P4 | **RPL32P4** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131340 | gene-NT5DC1P1 | **NT5DC1P1** | 5'-nucleotidase domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131347 | NR_036551 | **RDM1P5** | RDM1 pseudogene 5 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.993 |
| 100131348 | gene-LOC10013134 | **LOC100131348** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 1.038 |
| 100131358 | gene-RPL3P12 | **RPL3P12** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131360 | gene-LOC10013136 | **LOC100131360** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131366 | NR_033938 | **LINC00605** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131370 | gene-DDX18P6 | **DDX18P6** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131378 | NM_001166692,XM_ | **C11orf91** | chromosome 11 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131379 | gene-RPL36AP1 | **RPL36AP1** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131387 | gene-RPL39P32 | **RPL39P32** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 100131388 | gene-NDUFA3P1 | **NDUFA3P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131390 | NM_001145250 | **SP9** | Sp9 transcription factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131393 | gene-UBQLN4P2 | **UBQLN4P2** | ubiquilin 4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131395 | XR_110093 | **LOC100131395** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131411 | gene-LOC10013141 | **LOC100131411** | zinc finger protein 28 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131415 | gene-OR7E163P | **OR7E163P** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131429 | gene-LOC10013142 | **LOC100131429** | armadillo repeat containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131434 | NR_027455 | **LINC00893** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 100131439 | NM_001115152 | **CD300LD** | CD300 molecule like fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131440 | gene-CDC42P4 | **CDC42P4** | cell division cycle 42 pse | pseudogene | 0 | 0 | 1 | 1 | 1.117 |
| 100131441 | gene-LOC10013144 | **LOC100131441** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131442 | gene-RCC2P5 | **RCC2P5** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131448 | gene-LOC10013144 | **LOC100131448** | CTD small phosphatase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131454 | NR_024120 | **DBIL5P** | diazepam binding inhibit | transcribed_pseu | 0 | 0 | 1 | 1 | 1.013 |
| 100131457 | gene-SLC25A1P1 | **SLC25A1P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131465 | gene-LOC10013146 | **LOC100131465** | peroxisomal biogenesis f | pseudogene | 0 | 0 | 1 | 1 | 0.910 |
| 100131467 | gene-RPS6P9 | **RPS6P9** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 100131471 | gene-LOC10013147 | **LOC100131471** | presenilins-associated rh | pseudogene | 0 | 1 | 1 | 2 | 1.732 |
| 100131472 | NR_149037 | **LOC100131472** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131479 | gene-LOC10013147 | **LOC100131479** | zinc finger protein 430 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131481 | gene-RPL21P38 | **RPL21P38** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131482 | gene-TXNL4AP1 | **TXNL4AP1** | TXNL4A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131493 | gene-ZIK1P1 | **ZIK1P1** | zinc finger protein intera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131495 | gene-LOC10013149 | **LOC100131495** | nitrilase family member 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131496 | NR_024594 | **LOC100131496** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131520 | gene-LOC10013152 | **LOC100131520** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131526 | gene-RPL26P6 | **RPL26P6** | ribosomal protein L26 ps | pseudogene | 1 | 0 | 2 | 1 | 0.749 |
| 100131528 | gene-APOOP3 | **APOOP3** | apolipoprotein O pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131529 | gene-LOC10013152 | **LOC100131529** | SIN3-HDAC complex ass | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131532 | NR_027434 | **LOC100131532** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131533 | gene-DPY19L4P1 | **DPY19L4P1** | DPY19L4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131535 | gene-RPL5P28 | **RPL5P28** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131536 | gene-LOC10013153 | **LOC100131536** | tRNA methyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131539 | NM_001278713 | **ZNF705E** | zinc finger protein 705E | protein_coding | 0 | 0 | 1 | 1 | 1.067 |
| 100131546 | gene-ECEL1P1 | **ECEL1P1** | endothelin converting en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131550 | gene-CNN2P12 | **CNN2P12** | calponin 2 pseudogene : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131551 | NR_024480 | **LINC00887** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131561 | NR_024013 | **FKSG29** | FKSG29 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 100131564 | NR_034089 | **CCDC18-AS1** | CCDC18 antisense RNA | lncRNA | 4 | 3 | 5 | 4 | 0.859 |
| 100131565 | gene-EIF4EP5 | **EIF4EP5** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.946 |
| 100131568 | gene-RBM43P1 | **RBM43P1** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131572 | gene-RPS27P9 | **RPS27P9** | ribosomal protein S27 ps | pseudogene | 3 | 2 | 4 | 3 | 0.789 |
| 100131577 | gene-BMS1P19 | **BMS1P19** | BMS1 pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131593 | gene-LOC10013159 | **LOC100131593** | SAP domain containing r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131597 | gene-LOC10013159 | **LOC100131597** | phosphorylated adaptor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131604 | NR_147697 | **DPP4-DT** | DPP4 divergent transcrip | lncRNA | 6 | 5 | 7 | 6 | 0.803 |
| 100131608 | NM_001282479,XM | **PRR23D1** | proline rich 23 domain cc | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131609 | gene-HNRNPA1P2 | **HNRNPA1P2** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 100131614 | gene-RPS4XP22 | **RPS4XP22** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 100131616 | gene-CASP3P1 | **CASP3P1** | caspase 3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131623 | gene-NUTF2P6 | **NUTF2P6** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100131625 | gene-LOC10013162 | **LOC100131625** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131626 | NR_046369,NR_046 | **LOC100131626** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131629 | gene-ARL2BPP7 | **ARL2BPP7** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131635 | NR_034062 | **LOC100131635** | hCG1645011-like | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131641 | gene-RBM22P12 | **RBM22P12** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131655 | NR_040024 | **ZNF236-DT** | ZNF236 divergent transc | lncRNA | 2 | 3 | 3 | 4 | 1.183 |
| 100131656 | gene-SDCBPP3 | **SDCBPP3** | syndecan binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131661 | gene-FTLP5 | **FTLP5** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131671 | gene-SEC13P1 | **SEC13P1** | SEC13 homolog, nuclea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131672 | gene-RPL21P87 | **RPL21P87** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.886 |
| 100131676 | gene-LOC10013167 | **LOC100131676** | clathrin light chain A pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131680 | gene-LOC10013168 | **LOC100131680** | 52 kDa repressor of the i | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131685 | gene-LOC10013168 | **LOC100131685** | ENAH, actin regulator ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131689 | gene-LOC10013168 | **LOC100131689** | pumilio domain-containir | pseudogene | 0 | 0 | 1 | 1 | 0.922 |
| 100131691 | NR_027334 | **MZF1-AS1** | MZF1 antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 1.071 |
| 100131693 | gene-EIF4EP2 | **EIF4EP2** | eukaryotic translation init | pseudogene | 17 | 14 | 18 | 15 | 0.848 |
| 100131695 | gene-RNF11P1 | **RNF11P1** | ring finger protein 11 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131711 | gene-RFC3P1 | **RFC3P1** | replication factor C 3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131713 | gene-RPL29P11 | **RPL29P11** | ribosomal protein L29 ps | pseudogene | 2 | 3 | 3 | 4 | 1.545 |
| 100131725 | gene-LOC10013172 | **LOC100131725** | solute carrier family 39 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131726 | NR_024479 | **FAM83A-AS1** | FAM83A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.172 |
| 100131730 | gene-RPL37AP7 | **RPL37AP7** | ribosomal protein L37a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131733 | NR_038996 | **USP30-AS1** | USP30 antisense RNA 1 | lncRNA | 13 | 15 | 14 | 16 | 1.129 |
| 100131736 | gene-LOC10013173 | **LOC100131736** | DEAD-box helicase 18 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131740 | gene-CIR1P1 | **CIR1P1** | CIR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131743 | gene-GAPDHP40 | **GAPDHP40** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 100131747 | gene-LOC10013174 | **LOC100131747** | small EDRK-rich factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131755 | NM_001256155,NR_ | **ARMCX4** | armadillo repeat containi | protein_coding | 0 | 0 | 1 | 1 | 1.201 |
| 100131759 | gene-RPL19P3 | **RPL19P3** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131760 | gene-GXYLT1P5 | **GXYLT1P5** | GXYLT1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131777 | gene-DPPA2P4 | **DPPA2P4** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131784 | gene-ARL2BPP8 | **ARL2BPP8** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131785 | gene-LOC10013178 | **LOC100131785** | ring finger protein 181 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131787 | gene-RPS27P7 | **RPS27P7** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100131797 | gene-RPL15P19 | **RPL15P19** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131800 | gene-UBE2D3P4 | **UBE2D3P4** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131801 | NM_001171155,NR_ | **PET100** | PET100 cytochrome c ox | protein_coding | 84 | 89 | 85 | 90 | 1.054 |
| 100131805 | gene-RPL6P18 | **RPL6P18** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131810 | gene-ADH5P3 | **ADH5P3** | ADH5 pseudogene 3 | pseudogene | 0 | 1 | 1 | 2 | 1.294 |
| 100131814 | NR_026805,NR_152 | **LINC00271** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.948 |
| 100131816 | NR_024062 | **UBE2DNL** | ubiquitin conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100131823 | gene-SUMO2P7 | **SUMO2P7** | SUMO2 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131825 | NR_037870 | **CADM3-AS1** | CADM3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131827 | NM_001128223,NM | **ZNF717** | zinc finger protein 717 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131828 | gene-CIR1P2 | **CIR1P2** | CIR1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131832 | gene-ZFP91P1 | **ZFP91P1** | ZFP91 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.097 |
| 100131846 | gene-RPL23AP83 | **RPL23AP83** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.096 |
| 100131849 | gene-LOC10013184 | **LOC100131849** | WASH complex subunit 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131859 | gene-LOC10013185 | **LOC100131859** | SAP domain containing r | pseudogene | 0 | 0 | 1 | 1 | 1.204 |
| 100131863 | gene-RPS18P5 | **RPS18P5** | ribosomal protein S18 ps | pseudogene | 2 | 4 | 3 | 5 | 1.866 |
| 100131866 | gene-RPS2P9 | **RPS2P9** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.958 |
| 100131868 | gene-LOC10013186 | **LOC100131868** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131874 | gene-CFL1P3 | **CFL1P3** | cofilin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131877 | gene-LOC10013187 | **LOC100131877** | small EDRK-rich factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131881 | gene-EI24P3 | **EI24P3** | EI24 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131890 | gene-LOC10013189 | **LOC100131890** | neugrin, neurite outgrow | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131893 | gene-RPL3P11 | **RPL3P11** | ribosomal protein L3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131897 | NM_001129891,NM | **INSYN2B** | inhibitory synaptic factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131899 | gene-E2F4P1 | **E2F4P1** | E2F transcription factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131902 | NM_001128598 | **KRTAP25-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131905 | gene-RPS27P21 | **RPS27P21** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 0.718 |
| 100131913 | gene-RPL5P20 | **RPL5P20** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131918 | gene-LOC10013191 | **LOC100131918** | KIAA1191 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131924 | gene-BLOC1S2P1 | **BLOC1S2P1** | BLOC1S2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131932 | gene-RCC2P3 | **RCC2P3** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131934 | gene-LETM1P2 | **LETM1P2** | leucine zipper and EF-ha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131935 | gene-GAPDHP41 | **GAPDHP41** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131940 | gene-SNX5P1 | **SNX5P1** | sorting nexin 5 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 100131943 | XR_001753087 | **LOC100131943** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100131945 | gene-RPL35AP13 | **RPL35AP13** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131947 | gene-PRPF38AP2 | **PRPF38AP2** | PRP38 domain containin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131950 | gene-LOC10013195 | **LOC100131950** | methyltransferase like 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131956 | gene-RPS3P5 | **RPS3P5** | ribosomal protein S3 pse | pseudogene | 0 | 1 | 1 | 2 | 1.542 |
| 100131961 | gene-ST13P19 | **ST13P19** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131962 | gene-LOC10013196 | **LOC100131962** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131964 | gene-RPL7L1P3 | **RPL7L1P3** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131971 | gene-RPS26P54 | **RPS26P54** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131977 | gene-LOC10013197 | **LOC100131977** | prickle planar cell polarit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131980 | NM_001164457 | **ZNF705G** | zinc finger protein 705G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100131983 | gene-HNRNPA1P25 | **HNRNPA1P25** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131995 | gene-UQCRHP3 | **UQCRHP3** | ubiquinol-cytochrome c r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100131997 | NR_103833 | **FAM27E3** | family with sequence sim | lncRNA | 0 | 1 | 1 | 2 | 1.044 |
| 100131998 | NR_027460 | **RRN3P3** | RRN3 pseudogene 3 | transcribed_pseu | 5 | 6 | 6 | 7 | 1.097 |
| 100132004 | XR_001746457,XR | **LOC100132004** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132009 | gene-LOC10013200 | **LOC100132009** | pentatricopeptide repeat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132015 | NM_001355534 | **TEX13D** | TEX13 family member D | protein_coding | 0 | 0 | 1 | 1 | 1.104 |
| 100132031 | gene-DNM1P28 | **DNM1P28** | dynamin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132036 | gene-NDUFB4P2 | **NDUFB4P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132039 | gene-LOC10013203 | **LOC100132039** | spermine synthase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132047 | gene-RPL22P6 | **RPL22P6** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.145 |
| 100132049 | gene-RPS19P4 | **RPS19P4** | ribosomal protein S19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132056 | gene-DHFRP5 | **DHFRP5** | dihydrofolate reductase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132057 | NR_168361,NR_168 | **LOC100132057** | phosphodiesterase 4D in | transcribed_pseu | 1 | 1 | 2 | 2 | 0.993 |
| 100132058 | gene-GPS2P2 | **GPS2P2** | G protein pathway suppr | pseudogene | 0 | 0 | 1 | 1 | 0.933 |
| 100132061 | gene-RPL9P14 | **RPL9P14** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132062 | NR_028325 | **LOC100132062** | uncharacterized LOC100 | lncRNA | 2 | 2 | 3 | 3 | 0.963 |
| 100132066 | gene-ALG1L3P | **ALG1L3P** | ALG1 like 3, pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132073 | gene-CCNB2P1 | **CCNB2P1** | cyclin B2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.965 |
| 100132074 | NM_001291281 | **FOXO6** | forkhead box O6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132077 | NR_033937 | **LOC100132077** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.035 |
| 100132078 | NR_046085 | **LOC100132078** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132086 | gene-AK6P1 | **AK6P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132090 | gene-LOC10013209 | **LOC100132090** | survival of motor neuron | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132100 | gene-DNM1P32 | **DNM1P32** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132101 | NR_036470 | **HERC2P7** | hect domain and RLD 2 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.026 |
| 100132103 | NR_027424 | **FAM66E** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132104 | gene-AK4P2 | **AK4P2** | adenylate kinase 4 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132108 | gene-LOC10013210 | **LOC100132108** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132111 | NR_024237,NR_152 | **C2CD4D-AS1** | C2CD4D and THEM5 an | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132115 | gene-RBM22P11 | **RBM22P11** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132116 | NR_125373 | **ACTA2-AS1** | ACTA2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.925 |
| 100132121 | gene-ETF1P3 | **ETF1P3** | eukaryotic translation ter | pseudogene | 0 | 0 | 1 | 1 | 0.984 |
| 100132122 | gene-RPL35AP5 | **RPL35AP5** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132124 | gene-TSPY17P | **TSPY17P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132126 | gene-LOC10013212 | **LOC100132126** | mitochondrial carrier 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132127 | gene-RPL39P14 | **RPL39P14** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132132 | gene-DSTNP5 | **DSTNP5** | DSTN pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132142 | gene-RPS3AP4 | **RPS3AP4** | RPS3A pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132146 | NM_001195442 | **FAM240A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132147 | NR_135764 | **LINC01783** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132153 | gene-TUBB2BP1 | **TUBB2BP1** | tubulin beta 2B class IIb | pseudogene | 0 | 0 | 1 | 1 | 0.920 |
| 100132154 | XR_001746678,XR | **LOC100132154** | ankyrin repeat domain 3( | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132159 | NR_120496,NR_120 | **CALML3-AS1** | CALML3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132163 | NR_029379 | **PHKA2-AS1** | PHKA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132166 | gene-IL9RP4 | **IL9RP4** | interleukin 9 receptor pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132169 | NR_130735 | **WASIR2** | WASH and IL9R antisen | lncRNA | 0 | 0 | 1 | 1 | 0.790 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100132173 | gene-PPP1R26P3 | **PPP1R26P3** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132174 | NR_104134 | **LINC01987** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132179 | gene-LOC10013217 | **LOC100132179** | solute carrier family 35 r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132199 | gene-RPL36AP44 | **RPL36AP44** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132201 | gene-ZSWIM5P2 | **ZSWIM5P2** | zinc finger SWIM-type cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132202 | NM_001365373,XM | **LOC100132202** | golgin subfamily A memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132204 | gene-DNM1P29 | **DNM1P29** | dynamin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132215 | NR_027069,NR_03 | **LOC100132215** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132223 | gene-LOC10013222 | **LOC100132223** | actin beta pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132234 | NR_135254 | **LINC00543** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132239 | gene-LOC10013223 | **LOC100132239** | calcium activated nucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132242 | gene-LOC10013224 | **LOC100132242** | exosome component 8 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132247 | NM_001135865 | **NPIPB5** | nuclear pore complex int | protein_coding | 53 | 59 | 54 | 60 | 1.108 |
| 100132249 | NR_135128 | **LOC100132249** | uncharacterized LOC100 | lncRNA | 3 | 2 | 4 | 3 | 0.888 |
| 100132251 | gene-ABHD17AP9 | **ABHD17AP9** | ABHD17A pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132265 | gene-RPL32P15 | **RPL32P15** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132268 | gene-FKBP4P6 | **FKBP4P6** | FKBP prolyl isomerase 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132273 | NR_034118 | **NDUFA6-DT** | NDUFA6 divergent transi | lncRNA | 2 | 1 | 3 | 2 | 0.812 |
| 100132280 | gene-LOC10013228 | **LOC100132280** | ataxin 3 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132287 | NR_028322 | **LOC100132287** | uncharacterized LOC100 | lncRNA | 3 | 3 | 4 | 4 | 1.017 |
| 100132288 | NR_038327,NR_038 | **TEKT4P2** | tektin 4 pseudogene 2 | transcribed_pseu | 9 | 9 | 10 | 10 | 0.949 |
| 100132289 | gene-ABCB10P4 | **ABCB10P4** | ABCB10 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132291 | gene-RPS27P29 | **RPS27P29** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.128 |
| 100132295 | gene-PPP1R26P4 | **PPP1R26P4** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132304 | NM_001348072,NM | **FAM236B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132308 | gene-SLC29A4P2 | **SLC29A4P2** | solute carrier family 29 r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132310 | gene-FCF1P11 | **FCF1P11** | FCF1 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132311 | gene-RPL38P3 | **RPL38P3** | RPL38 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132322 | gene-SAR1AP4 | **SAR1AP4** | secretion associated Ras | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132332 | gene-CNOT7P2 | **CNOT7P2** | CCR4-NOT transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132341 | NR_024034 | **CLUHP3** | clustered mitochondria h | transcribed_pseu | 11 | 8 | 12 | 9 | 0.783 |
| 100132346 | gene-HSPE1P7 | **HSPE1P7** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.857 |
| 100132352 | NR_034006,NR_15 | **FRG1HP** | FSHD region gene 1 fam | transcribed_pseu | 24 | 20 | 25 | 21 | 0.850 |
| 100132354 | NR_024478 | **LINC01512** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132356 | NR_034127 | **LOC100132356** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 100132358 | gene-EEF1A1P34 | **EEF1A1P34** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132372 | gene-RPS10P28 | **RPS10P28** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132376 | gene-RPS29P8 | **RPS29P8** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132380 | gene-AGGF1P1 | **AGGF1P1** | angiogenic factor with G- | pseudogene | 1 | 1 | 2 | 2 | 1.125 |
| 100132382 | gene-RPS14P4 | **RPS14P4** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 0.760 |
| 100132386 | NM_001146041 | **KRTAP4-9** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132396 | NM_001193630 | **ZNF705B** | zinc finger protein 705B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132399 | NM_001127199 | **GAGE12D** | G antigen 12D | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132400 | gene-RPS15AP28 | **RPS15AP28** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132402 | gene-PGGT1BP2 | **PGGT1BP2** | protein geranylgeranyltra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132403 | NR_146178 | **FAM157B** | family with sequence sim | lncRNA | 1 | 0 | 2 | 1 | 0.909 |
| 100132406 | NM_001039703,NM | **NBPF10** | NBPF member 10 | protein_coding | 4 | 3 | 5 | 4 | 0.837 |
| 100132415 | gene-SOCS5P4 | **SOCS5P4** | suppressor of cytokine si | pseudogene | 1 | 0 | 2 | 1 | 0.694 |
| 100132417 | NR_027484 | **FCGR1CP** | Fc fragment of IgG recep | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132420 | gene-ANKRD36P1 | **ANKRD36P1** | ankyrin repeat domain 36 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132421 | gene-DUX4L18 | **DUX4L18** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132441 | gene-GXYLT1P4 | **GXYLT1P4** | GXYLT1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.035 |
| 100132450 | gene-IQSEC3P1 | **IQSEC3P1** | IQ motif and Sec7 domai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132463 | NM_001185149 | **CLDN24** | claudin 24 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132464 | NR_026642 | **FAM99B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132467 | gene-RNF2P1 | **RNF2P1** | ring finger protein 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132476 | NM_033061 | **KRTAP4-7** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132479 | gene-RPL22P5 | **RPL22P5** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.175 |
| 100132488 | gene-RPS27P6 | **RPS27P6** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 100132498 | gene-CENPNP1 | **CENPNP1** | CENPN pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132499 | gene-RPS29P16 | **RPS29P16** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132501 | NR_145452,NR_14 | **LINC01415** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132504 | gene-TSPY19P | **TSPY19P** | testis specific protein Y-li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132509 | gene-ZNF114P1 | **ZNF114P1** | zinc finger protein 114 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132510 | gene-GLRXP3 | **GLRXP3** | glutaredoxin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 100132520 | gene-MTRF1LP1 | **MTRF1LP1** | mitochondrial translation | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 100132526 | NR_036481 | **FGD5P1** | FYVE, RhoGEF and PH | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132529 | NR_103851,NR_103 | **TAT-AS1** | TAT antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 100132537 | gene-DOCK11P1 | **DOCK11P1** | dedicator of cytokinesis 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132541 | NR_121572 | **GXYLT1P3** | GXYLT1 pseudogene 3 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.108 |
| 100132543 | gene-LOC10013254 | **LOC100132543** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132547 | gene-RPL26P33 | **RPL26P33** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132562 | gene-YPEL5P2 | **YPEL5P2** | YPEL5 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132565 | NM_001350920,NR | **GOLGA8F** | golgin A8 family member | protein_coding | 0 | 0 | 1 | 1 | 0.983 |
| 100132570 | gene-LOC10013257 | **LOC100132570** | chromosome 17 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.150 |
| 100132571 | gene-LOC10013257 | **LOC100132571** | short coiled-coil protein p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132580 | gene-RBMXP4 | **RBMXP4** | RBMX pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 100132591 | gene-SERBP1P4 | **SERBP1P4** | SERPINE1 mRNA bindin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132594 | NR_077225 | **PGAM1P5** | phosphoglycerate mutas | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132596 | NR_003254 | **XGY2** | XG pseudogene, Y-linke | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132601 | gene-GAPDHP68 | **GAPDHP68** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132606 | gene-AGGF1P7 | **AGGF1P7** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132609 | gene-LOC10013260 | **LOC100132609** | programmed cell death 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132612 | NR_146447 | **LINC02312** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132617 | gene-SNX18P23 | **SNX18P23** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 100132618 | NR_038420 | **ZRANB2-AS1** | ZRANB2 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.002 |
| 100132619 | gene-ATP5F1AP10 | **ATP5F1AP10** | ATP synthase F1 subuni | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132626 | gene-LOC10013262 | **LOC100132626** | RNA guanine-7 methyltra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132644 | gene-LOC10013264 | **LOC100132644** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 0.861 |
| 100132645 | gene-RPL17P41 | **RPL17P41** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132647 | gene-LOC10013264 | **LOC100132647** | signal peptide peptidase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132651 | gene-LOC10013265 | **LOC100132651** | UBX domain protein 2A p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132656 | gene-FKBP4P1 | **FKBP4P1** | FKBP prolyl isomerase 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132658 | gene-NSA2P3 | **NSA2P3** | NSA2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.876 |
| 100132659 | gene-LOC10013265 | **LOC100132659** | single stranded DNA bin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132672 | gene-GXYLT1P6 | **GXYLT1P6** | GXYLT1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 0.941 |
| 100132673 | gene-RPS2P28 | **RPS2P28** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132677 | NR_038866 | **BSN-DT** | BSN divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 1.039 |
| 100132678 | gene-RPL7AP45 | **RPL7AP45** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.079 |
| 100132681 | gene-NFU1P1 | **NFU1P1** | NFU1 iron-sulfur cluster | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132683 | gene-PDCL3P3 | **PDCL3P3** | PDCL3 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132686 | NR_133566 | **LOC100132686** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.221 |
| 100132707 | NR_024476,NR_024 | **PAXIP1-AS2** | PAXIP1 antisense RNA 2 | lncRNA | 4 | 3 | 5 | 4 | 0.780 |
| 100132708 | NR_023391 | **CYP4F30P** | cytochrome P450 family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132722 | gene-RPL15P21 | **RPL15P21** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132724 | NR_027642 | **DCAF13P3** | DDB1 and CUL4 associa | transcribed_pseu | 0 | 0 | 1 | 1 | 1.038 |
| 100132735 | NR_038399,NR_138 | **FILNC1** | FOXO induced long non | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132736 | gene-PIMREGP3 | **PIMREGP3** | PIMREG pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132741 | NR_034004 | **LOC100132741** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132742 | gene-RPL17P7 | **RPL17P7** | ribosomal protein L17 ps | pseudogene | 38 | 44 | 39 | 45 | 1.169 |
| 100132753 | gene-RFKP2 | **RFKP2** | riboflavin kinase pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132762 | gene-LOC10013276 | **LOC100132762** | chromosome 17 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132766 | gene-PABPC1P8 | **PABPC1P8** | poly(A) binding protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132772 | gene-RAB28P3 | **RAB28P3** | RAB28, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132773 | gene-LOC10013277 | **LOC100132773** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132774 | NR_033827 | **KDM4A-AS1** | KDM4A antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 0.966 |
| 100132781 | NR_038890 | **LOC100132781** | cyclin Y like 1 pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132789 | gene-LOC10013278 | **LOC100132789** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132795 | gene-RPL12P32 | **RPL12P32** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 100132796 | gene-NIFKP6 | **NIFKP6** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132797 | gene-LOC10013279 | **LOC100132797** | FMR1 autosomal homolc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132803 | gene-HNRNPH1P1 | **HNRNPH1P1** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.956 |
| 100132808 | gene-RBMX2P2 | **RBMX2P2** | RBMX2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132812 | gene-NACAP10 | **NACAP10** | NACA pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132813 | NR_161375 | **LOC100132813** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132815 | NR_103741,NR_103 | **IPO5P1** | importin 5 pseudogene 1 | transcribed_pseu | 1 | 2 | 2 | 3 | 1.129 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100132831 | NR_027761 | **TNIP2P1** | TNIP2 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132832 | NR_028058 | **PMS2P9** | PMS1 homolog 2, misma | transcribed_pseu | 1 | 2 | 2 | 3 | 1.242 |
| 100132841 | gene-NMNAT1P4 | **NMNAT1P4** | NMNAT1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132849 | gene-ATP5POP1 | **ATP5POP1** | ATP5PO pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132857 | gene-LOC1001328 | **LOC100132857** | heat shock protein 90kD | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132863 | gene-HMGB1P37 | **HMGB1P37** | high mobility group box | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132871 | gene-RAB28P4 | **RAB28P4** | RAB28, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132891 | NR_033651,NR_03 | **MSC-AS1** | MSC antisense RNA 1 | lncRNA | 5 | 6 | 6 | 7 | 1.097 |
| 100132911 | NM_080750 | **DPH3P1** | diphthamide biosynthesi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132916 | NM_001164442 | **SHISAL2B** | shisa like 2B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132917 | gene-RAP1BP3 | **RAP1BP3** | RAP1B, member of RAS | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132918 | gene-EIF4EP3 | **EIF4EP3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132923 | NR_027425 | **FAM66D** | family with sequence sim | lncRNA | 1 | 0 | 2 | 1 | 0.912 |
| 100132924 | gene-RPL13AP19 | **RPL13AP19** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132929 | NR_104039 | **FAM25BP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100132932 | NR_145462 | **FAM197Y9** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132938 | gene-AQP7P4 | **AQP7P4** | aquaporin 7 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132940 | gene-PRELID3BP6 | **PRELID3BP6** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132948 | NR_027421 | **FAM27C** | family with sequence sim | lncRNA | 1 | 0 | 2 | 1 | 0.672 |
| 100132949 | gene-RBM17P3 | **RBM17P3** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132961 | gene-RPS21P2 | **RPS21P2** | ribosomal protein S21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132963 | NM_001162936 | **SMIM9** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132965 | gene-GYG1P1 | **GYG1P1** | glycogenin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.027 |
| 100132967 | NR_027401 | **FAM223A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 100132973 | gene-ELOCP29 | **ELOCP29** | elongin C pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132978 | gene-ATP6V0CP1 | **ATP6V0CP1** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132979 | NR_027407 | **GOLGA8DP** | golgin A8 family member | transcribed_pseu | 0 | 0 | 1 | 1 | 0.938 |
| 100132987 | NR_038985 | **LINC00856** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100132992 | gene-HMGN1P30 | **HMGN1P30** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132993 | gene-RPS21P3 | **RPS21P3** | ribosomal protein S21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100132994 | NM_001145139,NR | **CXorf49B** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100132995 | gene-RPS8P3 | **RPS8P3** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133005 | NR_146066 | **RASA4DP** | RAS p21 protein activato | transcribed_pseu | 6 | 7 | 7 | 8 | 1.133 |
| 100133007 | gene-LOC1001330 | **LOC100133007** | DENN domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133012 | gene-CHEK2P1 | **CHEK2P1** | CHEK2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133029 | gene-LOC1001330 | **LOC100133029** | sirtuin 5 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133036 | NR_026759 | **FAM95B1** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 100133037 | gene-RPL7P4 | **RPL7P4** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133038 | gene-RPL18AP7 | **RPL18AP7** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133040 | gene-PPP1R26P5 | **PPP1R26P5** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133050 | NR_027503 | **LOC100133050** | glucuronidase beta pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100133053 | NM_001244892 | **CXorf51B** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100133059 | gene-CENPNP2 | **CENPNP2** | CENPN pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133062 | gene-FAM217AP1 | **FAM217AP1** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 0.887 |
| 100133064 | gene-PPP1R26P2 | **PPP1R26P2** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133073 | gene-LOC1001330 | **LOC100133073** | abraxas 1, BRCA1 A com | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133077 | NR_121583 | **LOC100133077** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133091 | NR_029411 | **LOC100133091** | uncharacterized LOC100 | lncRNA | 7 | 6 | 8 | 7 | 0.961 |
| 100133092 | gene-LOC1001330 | **LOC100133092** | PAGE family member 4 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133093 | NM_001137549 | **FAM25G** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100133103 | gene-RPL7L1P13 | **RPL7L1P13** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133121 | NR_027422 | **FAM27B** | family with sequence sim | lncRNA | 2 | 1 | 3 | 2 | 0.696 |
| 100133123 | NR_045260 | **LINC01203** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133139 | gene-RPL12P41 | **RPL12P41** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133147 | gene-LOC1001331 | **LOC100133147** | glucosamine-phosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133161 | NR_028326,NR_14 | **LINC01001** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.904 |
| 100133162 | gene-RPL32P34 | **RPL32P34** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133163 | gene-BCRP7 | **BCRP7** | BCR pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.043 |
| 100133165 | gene-LOC1001331 | **LOC100133165** | Dexi homolog (mouse) p | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 100133172 | NR_026789 | **FAM66A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133203 | gene-RAB28P1 | **RAB28P1** | RAB28, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133204 | NM_001350649 | **C9orf147** | chromosome 9 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.016 |
| 100133205 | NR_026775 | **LINC00240** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133206 | gene-RBM22P5 | **RBM22P5** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133211 | gene-RRAS2P1 | **RRAS2P1** | RRAS2 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 0.993 |
| 100133212 | gene-ABHD17AP7 | **ABHD17AP7** | ABHD17A pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133220 | NM_001310153 | **GOLGA6L3** | golgin A6 family like 3 | protein_coding | 1 | 0 | 2 | 1 | 0.742 |
| 100133222 | gene-RPL39P27 | **RPL39P27** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 100133234 | NR_027765 | **SBF1P1** | SET binding factor 1 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100133251 | NM_001282478,XM | **PRR23D2** | proline rich 23 domain co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100133252 | gene-LOC1001332 | **LOC100133252** | zinc finger protein 131 ps | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 100133255 | gene-RPS14P5 | **RPS14P5** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133259 | gene-CBX1P5 | **CBX1P5** | chromobox 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133261 | gene-CHORDC1P3 | **CHORDC1P3** | CHORDC1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133262 | gene-ATP6V0E1P3 | **ATP6V0E1P3** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133265 | gene-BMS1P7 | **BMS1P7** | BMS1 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 0.898 |
| 100133267 | NM_001195257 | **DEFB130B** | defensin beta 130B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100133268 | gene-HAUS6P2 | **HAUS6P2** | HAUS augmin like compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133273 | gene-RPL21P80 | **RPL21P80** | ribosomal protein L21 ps | pseudogene | 0 | 1 | 1 | 2 | 1.549 |
| 100133285 | gene-PCDH8P1 | **PCDH8P1** | protocadherin 8 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133286 | NR_040084 | **LOC100133286** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133294 | gene-RPL34P16 | **RPL34P16** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.031 |
| 100133308 | NR_024472 | **RSU1P2** | Ras suppressor protein 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.054 |
| 100133309 | gene-EIF4A2P3 | **EIF4A2P3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133310 | gene-HMGB1P28 | **HMGB1P28** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133311 | NR_038831,NR_03 | **HOXA-AS3** | HOXA cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 0.810 |
| 100133314 | gene-SETP1 | **SETP1** | SET pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133315 | NM_001375847,NM | **LOC100133315** | XRCC1 N-terminal doma | protein_coding | 2 | 3 | 3 | 4 | 1.397 |
| 100133316 | gene-LOC1001333 | **LOC100133316** | required for meiotic nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133319 | NR_130736 | **PRO1804** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133321 | gene-KLF17P1 | **KLF17P1** | Kruppel like factor 17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.887 |
| 100133326 | gene-LOC1001333 | **LOC100133326** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133330 | gene-RBM17P1 | **RBM17P1** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133461 | NR_034136 | **LINC02171** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133545 | NR_024471 | **MRPL23-AS1** | MRPL23 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100133612 | NR_024455 | **LINC01134** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.045 |
| 100133668 | gene-RPS27P24 | **RPS27P24** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100133669 | NR_026913 | **LY6E-DT** | LY6E divergent transcrip | lncRNA | 0 | 1 | 1 | 2 | 1.959 |
| 100133920 | NR_024443 | **LOC100133920** | methylenetetrahydrofolat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100133941 | NM_001291737,NM | **CD24** | CD24 molecule | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100133957 | NR_028119 | **UXT-AS1** | UXT antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.902 |
| 100133985 | NR_024444 | **LINC01816** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.735 |
| 100133991 | NR_024434,NR_02 | **MAP3K14-AS1** | MAP3K14 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 1.050 |
| 100134015 | NR_038395 | **UBOX5-AS1** | UBOX5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100134040 | NR_148939 | **LOC100134040** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100134229 | NR_024451 | **KDM7A-DT** | KDM7A divergent transcr | lncRNA | 1 | 2 | 2 | 3 | 1.236 |
| 100134259 | NR_024452 | **LINC01119** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 100134317 | NR_029389 | **LOC100134317** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.168 |
| 100134362 | gene-LOC1001343 | **LOC100134362** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100134368 | NR_024453 | **LOC100134368** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 100134391 | NR_164140 | **LOC100134391** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100134444 | NM_001194958,XM | **KCNJ18** | potassium inwardly rectif | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100134507 | gene-LOC1001345 | **LOC100134507** | metaxin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100134713 | NR_024454 | **NDUFB2-AS1** | NDUFB2 antisense RNA | lncRNA | 3 | 3 | 4 | 4 | 1.041 |
| 100134868 | NR_004846 | **LOC100134868** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100134869 | NR_004847 | **UBE2Q2P2** | ubiquitin conjugating en | transcribed_pseu | 7 | 5 | 8 | 6 | 0.824 |
| 100134934 | NM_001113324 | **TEN1** | TEN1 subunit of CST co | protein_coding | 7 | 18 | 8 | 19 | 2.376 |
| 100134938 | NM_001114403 | **UPK3BL1** | uroplakin 3B like 1 | protein_coding | 6 | 5 | 7 | 6 | 0.876 |
| 100135063 | gene-GTF3AP6 | **GTF3AP6** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100135064 | gene-GTF3AP1 | **GTF3AP1** | general transcription fact | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100137047 | NM_001114632 | **JMJD7** | jumonji domain containir | protein_coding | 8 | 5 | 9 | 6 | 0.704 |
| 100137049 | NM_001114633 | **PLA2G4B** | phospholipase A2 group | protein_coding | 2 | 0 | 3 | 1 | 0.444 |
| 100141515 | NM_001163075,XM | **C17orf99** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100142659 | NM_001278507 | **CTAGE8** | CTAGE family member 8 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100144435 | gene-VTRNA3-1P | **VTRNA3-1P** | vault RNA 3-1, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100144494 | gene-KDELC1P1 | **KDELC1P1** | KDEL motif containing 1 | pseudogene | 0 | 0 | 1 | 1 | 1.050 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100144595 | NR_161181 | **LOC100144595** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100144596 | NR_028295 | **LINC00029** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100144597 | NR_033369 | **LINC01056** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100144602 | NR_034138 | **EPHA5-AS1** | EPHA5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100144603 | NR_021492,NR_11( | **CHKB-DT** | CHKB divergent transcrip | lncRNA | 8 | 9 | 9 | 10 | 1.065 |
| 100144604 | NR_021493 | **LINC00930** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100144631 | gene-PPP6CP | **PPP6CP** | protein phosphatase 6 ca | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100144748 | NM_001126049 | **KLLN** | killin, p53 regulated DNA | protein_coding | 1 | 1 | 2 | 2 | 1.081 |
| 100147744 | NR_023317 | **RNU7-1** | RNA, U7 small nuclear 1 | snRNA | 0 | 0 | 1 | 1 | 0.992 |
| 100147746 | gene-RNU7-3P | **RNU7-3P** | RNA, U7 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147749 | gene-RNU7-6P | **RNU7-6P** | RNA, U7 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147755 | gene-RNU7-7P | **RNU7-7P** | RNA, U7 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147756 | gene-RNU7-8P | **RNU7-8P** | RNA, U7 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147759 | gene-RNU7-11P | **RNU7-11P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147761 | gene-RNU7-13P | **RNU7-13P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147766 | gene-RNU7-18P | **RNU7-18P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147767 | gene-RNU7-19P | **RNU7-19P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147770 | gene-RNU7-22P | **RNU7-22P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147773 | NR_125374 | **TMCO1-AS1** | TMCO1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.090 |
| 100147811 | gene-CBX1P2 | **CBX1P2** | chromobox 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147812 | gene-RNU7-25P | **RNU7-25P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147813 | gene-RNU7-26P | **RNU7-26P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147815 | gene-RNU7-28P | **RNU7-28P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147816 | gene-RNU7-29P | **RNU7-29P** | RNA, U7 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147822 | gene-RNU7-35P | **RNU7-35P** | RNA, U7 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147823 | gene-RNU7-36P | **RNU7-36P** | RNA, U7 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147830 | gene-RNU7-43P | **RNU7-43P** | RNA, U7 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100147834 | gene-RNU7-47P | **RNU7-47P** | RNA, U7 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151640 | gene-EXOSC3P1 | **EXOSC3P1** | exosome component 3 p | pseudogene | 1 | 0 | 2 | 1 | 0.731 |
| 100151641 | gene-PHKG1P4 | **PHKG1P4** | phosphorylase kinase ca | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151642 | gene-ATG12P1 | **ATG12P1** | autophagy related 12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.132 |
| 100151643 | NM_001350977 | **KRTAP20-4** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100151645 | gene-USF1P1 | **USF1P1** | upstream transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.277 |
| 100151646 | gene-LETM1P3 | **LETM1P3** | leucine zipper and EF-ha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151649 | gene-RNU7-53P | **RNU7-53P** | RNA, U7 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151652 | gene-RNU7-57P | **RNU7-57P** | RNA, U7 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.278 |
| 100151656 | gene-RNU7-61P | **RNU7-61P** | RNA, U7 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151661 | gene-CBX5P1 | **CBX5P1** | chromobox 5 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 0.922 |
| 100151663 | gene-RNU7-65P | **RNU7-65P** | RNA, U7 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151665 | gene-RNU7-67P | **RNU7-67P** | RNA, U7 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151666 | gene-RNU7-69P | **RNU7-69P** | RNA, U7 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151677 | gene-RNU7-80P | **RNU7-80P** | RNA, U7 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151683 | NR_023343 | **RNU4ATAC** | RNA, U4atac small nucle | snRNA | 0 | 1 | 1 | 2 | 1.735 |
| 100151684 | NR_023344 | **RNU6ATAC** | RNA, U6atac small nucle | snRNA | 4 | 4 | 5 | 5 | 0.987 |
| 100151685 | gene-RNU6ATAC2P | **RNU6ATAC2P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151686 | gene-RNU6ATAC3P | **RNU6ATAC3P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151687 | gene-RNU6ATAC4P | **RNU6ATAC4P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100151688 | gene-RNU6ATAC5P | **RNU6ATAC5P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100158257 | gene-NF1P7 | **NF1P7** | neurofibromin 1 pseudoc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100158258 | gene-NEK2P3 | **NEK2P3** | NEK2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100158262 | NR_023358 | **SCARNA9L** | small Cajal body-specific | guide_RNA | 0 | 1 | 1 | 2 | 1.195 |
| 100169751 | NR_023363 | **RNA5S1** | RNA, 5S ribosomal 1 | rRNA | 1 | 0 | 2 | 1 | 0.902 |
| 100169752 | NR_023362 | **TEX36-AS1** | TEX36 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169753 | NR_023364 | **RNA5S2** | RNA, 5S ribosomal 2 | rRNA | 1 | 0 | 2 | 1 | 0.979 |
| 100169754 | NR_023365 | **RNA5S3** | RNA, 5S ribosomal 3 | rRNA | 0 | 0 | 1 | 1 | 0.898 |
| 100169755 | NR_023366 | **RNA5S4** | RNA, 5S ribosomal 4 | rRNA | 0 | 0 | 1 | 1 | 0.950 |
| 100169756 | NR_023367 | **RNA5S5** | RNA, 5S ribosomal 5 | rRNA | 0 | 0 | 1 | 1 | 1.033 |
| 100169757 | NR_023368 | **RNA5S6** | RNA, 5S ribosomal 6 | rRNA | 1 | 2 | 2 | 3 | 1.816 |
| 100169758 | NR_023369 | **RNA5S7** | RNA, 5S ribosomal 7 | rRNA | 0 | 1 | 1 | 2 | 1.093 |
| 100169759 | NR_023370 | **RNA5S8** | RNA, 5S ribosomal 8 | rRNA | 0 | 0 | 1 | 1 | 1.010 |
| 100169760 | NR_023371 | **RNA5S9** | RNA, 5S ribosomal 9 | rRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169761 | NR_023372 | **RNA5S10** | RNA, 5S ribosomal 10 | rRNA | 1 | 0 | 2 | 1 | 0.807 |
| 100169762 | NR_023373 | **RNA5S11** | RNA, 5S ribosomal 11 | rRNA | 1 | 0 | 2 | 1 | 0.931 |
| 100169763 | NR_023374 | **RNA5S12** | RNA, 5S ribosomal 12 | rRNA | 0 | 0 | 1 | 1 | 1.097 |
| 100169764 | NR_023375 | **RNA5S13** | RNA, 5S ribosomal 13 | rRNA | 0 | 1 | 1 | 2 | 1.067 |
| 100169765 | NR_023376 | **RNA5S14** | RNA, 5S ribosomal 14 | rRNA | 0 | 0 | 1 | 1 | 1.095 |
| 100169766 | NR_023377 | **RNA5S15** | RNA, 5S ribosomal 15 | rRNA | 1 | 0 | 2 | 1 | 0.901 |
| 100169767 | NR_023378 | **RNA5S16** | RNA, 5S ribosomal 16 | rRNA | 0 | 0 | 1 | 1 | 1.170 |
| 100169768 | NR_023379 | **RNA5S17** | RNA, 5S ribosomal 17 | rRNA | 0 | 1 | 1 | 2 | 1.155 |
| 100169834 | gene-RNY4P19 | **RNY4P19** | RNY4 pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100169837 | gene-RNY5P10 | **RNY5P10** | RNY5 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 0.784 |
| 100169850 | gene-RNY4P7 | **RNY4P7** | RNY4 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100169851 | NM_001129883,XM_ | **PATE3** | prostate and testis expre | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100169890 | NR_023847 | **PEG3-AS1** | PEG3 antisense RNA 1 | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169951 | NR_024214 | **SNAR-A3** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169952 | NR_024223 | **SNAR-A5** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169953 | NR_024224 | **SNAR-A7** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169954 | NR_024225 | **SNAR-A11** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169955 | NR_024226 | **SNAR-A9** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169956 | NR_024215 | **SNAR-A4** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169957 | NR_024227 | **SNAR-A6** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169958 | NR_024228 | **SNAR-A8** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169959 | NR_024216 | **SNAR-A13** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100169989 | NR_036635 | **DBIL5P2** | diazepam binding inhibit | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100170216 | NR_024229 | **SNAR-A10** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170217 | NR_024230 | **SNAR-B2** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170218 | NR_024217 | **SNAR-C2** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170219 | NR_024218 | **SNAR-C4** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170220 | NR_024258 | **SNAR-E** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170221 | NR_024342 | **SNAR-H** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170222 | NR_024343 | **SNAR-I** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170223 | NR_024219 | **SNAR-C5** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170224 | NR_024231 | **SNAR-B1** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170225 | NR_024220 | **SNAR-C1** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170226 | NR_024221 | **SNAR-C3** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170227 | NR_024243 | **SNAR-D** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170228 | NR_024244 | **SNAR-G2** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100170229 | NM_001145641 | **SRRM5** | serine/arginine repetitive | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 100170765 | NM_001130514,XM | **ERICH4** | glutamate rich 4 | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 100170841 | NM_001130677 | **EPOP** | elongin BC and polycom | protein_coding | 0 | 0 | 1 | 1 | 0.986 |
| 100174949 | NR_148401,NR_14 | **TRIM59-IFT80** | TRIM59-IFT80 protein | lncRNA | 2 | 1 | 3 | 2 | 0.635 |
| 100174950 | gene-LOC1001749 | **LOC100174950** | speckle type BTB/POZ p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100187716 | NR_030410,rna-MIF | **MIR1224** | hsa-miR-1224-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100188847 | NR_030646,rna-MIF | **MIR1225** | hsa-miR-1225-3p | . | 0 | 1 | 1 | 2 | 1.637 |
| 100188891 | gene-ZNF123P | **ZNF123P** | zinc finger protein 123, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100188893 | NM_001134493,NM | **TOMM6** | translocase of outer mito | protein_coding | 416 | 406 | 417 | 407 | 0.976 |
| 100188947 | NR_024467 | **HECTD2-AS1** | HECTD2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188949 | NR_024464 | **LINC00426** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.120 |
| 100188953 | NR_024129 | **LINC00092** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.207 |
| 100188954 | NR_024130 | **DNMBP-AS1** | DNMBP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188985 | rna-TRG-GCC2-4 | **TRG-GCC2-4** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.496 |
| 100188986 | rna-TRH-GTG1-7 | **TRH-GTG1-7** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.034 |
| 100188987 | rna-TRH-GTG1-5 | **TRH-GTG1-5** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188988 | rna-TRH-GTG1-8 | **TRH-GTG1-8** | tRNA-His | tRNA | 1 | 1 | 2 | 2 | 1.110 |
| 100188990 | rna-TRV-AAC1-2 | **TRV-AAC1-2** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188991 | rna-TRH-GTG1-1 | **TRH-GTG1-1** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188992 | rna-TRV-AAC2-1 | **TRV-AAC2-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188993 | rna-TRV-TAC1-1 | **TRV-TAC1-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100188995 | rna-TRK-CTT6-1 | **TRK-CTT6-1** | tRNA-Lys | tRNA | 1 | 0 | 2 | 1 | 0.884 |
| 100188997 | rna-TRG-TCC4-1 | **TRG-TCC4-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.496 |
| 100188998 | rna-TRQ-CTG7-1 | **TRQ-CTG7-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189001 | rna-TRY-GTA5-5 | **TRY-GTA5-5** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189002 | rna-TRS-GCT2-1 | **TRS-GCT2-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189003 | rna-TRL-CAA6-1 | **TRL-CAA6-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189004 | rna-TRL-AAG1-3 | **TRL-AAG1-3** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189005 | rna-TRN-GTT2-1 | **TRN-GTT2-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100189006 | rna-TRT-AGT1-3 | **TRT-AGT1-3** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189008 | rna-TRC-GCA11-1 | **TRC-GCA11-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189009 | rna-TRL-CAG1-2 | **TRL-CAG1-2** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189011 | rna-TRG-TCC2-6 | **TRG-TCC2-6** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189012 | rna-TRR-TCT5-1 | **TRR-TCT5-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189013 | rna-TRK-CTT1-2 | **TRK-CTT1-2** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189014 | rna-TRV-AAC5-1 | **TRV-AAC5-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189015 | rna-TRX-CAT1-1 | **TRX-CAT1-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189017 | rna-TRE-CTC1-5 | **TRE-CTC1-5** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.068 |
| 100189018 | rna-TRL-CAG1-6 | **TRL-CAG1-6** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189019 | rna-TRP-AGG2-1 | **TRP-AGG2-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189020 | rna-TRP-AGG1-1 | **TRP-AGG1-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189021 | rna-TRA-CGC3-1 | **TRA-CGC3-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189022 | rna-TRY-GTA2-1 | **TRY-GTA2-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189024 | rna-TRE-CTC1-6 | **TRE-CTC1-6** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189025 | rna-TRR-TCG6-1 | **TRR-TCG6-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.218 |
| 100189028 | rna-TRI-TAT2-2 | **TRI-TAT2-2** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189029 | rna-TRC-GCA22-1 | **TRC-GCA22-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189030 | rna-TRE-TTC2-1 | **TRE-TTC2-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189032 | rna-TRL-TAG3-1 | **TRL-TAG3-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189033 | rna-TRA-CGC4-1 | **TRA-CGC4-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189034 | rna-TRR-TCG5-1 | **TRR-TCG5-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189035 | rna-TRT-CGT1-1 | **TRT-CGT1-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189036 | rna-TRN-GTT2-4 | **TRN-GTT2-4** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189037 | rna-TRS-CGA1-1 | **TRS-CGA1-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189038 | rna-TRL-CAA3-1 | **TRL-CAA3-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189039 | rna-TRG-TCC2-5 | **TRG-TCC2-5** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189040 | rna-TRX-CAT1-4 | **TRX-CAT1-4** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189041 | rna-TRS-CGA2-1 | **TRS-CGA2-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189045 | rna-TRG-CCC5-1 | **TRG-CCC5-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189046 | rna-TRA-AGC4-1 | **TRA-AGC4-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189048 | rna-TRW-CCA3-2 | **TRW-CCA3-2** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189049 | rna-TRC-GCA18-1 | **TRC-GCA18-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189050 | rna-TRI-GAT1-2 | **TRI-GAT1-2** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189052 | rna-TRC-GCA2-2 | **TRC-GCA2-2** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189053 | rna-TRK-TTT4-1 | **TRK-TTT4-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189056 | rna-TRQ-CTG4-1 | **TRQ-CTG4-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189059 | rna-TRN-GTT8-1 | **TRN-GTT8-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189062 | rna-TRK-CTT4-1 | **TRK-CTT4-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189063 | rna-TRE-TTC2-2 | **TRE-TTC2-2** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189064 | rna-TRG-TCC2-1 | **TRG-TCC2-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189065 | rna-TRH-GTG1-9 | **TRH-GTG1-9** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 0.684 |
| 100189066 | rna-TRA-TGC5-1 | **TRA-TGC5-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189067 | rna-TRL-TAA4-1 | **TRL-TAA4-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189070 | rna-TRS-AGA4-1 | **TRS-AGA4-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189071 | rna-TRI-AAT2-1 | **TRI-AAT2-1** | tRNA-Ile | tRNA | 0 | 2 | 1 | 3 | 2.811 |
| 100189072 | rna-TRP-AGG2-4 | **TRP-AGG2-4** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189074 | rna-TRQ-TTG3-3 | **TRQ-TTG3-3** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189075 | rna-TRC-GCA12-1 | **TRC-GCA12-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189077 | rna-TRS-AGA2-2 | **TRS-AGA2-2** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 0.997 |
| 100189078 | rna-TRR-CCT1-1 | **TRR-CCT1-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189082 | rna-TRA-TGC6-1 | **TRA-TGC6-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189083 | rna-TRN-GTT2-3 | **TRN-GTT2-3** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189084 | rna-TRR-CCG1-2 | **TRR-CCG1-2** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189085 | rna-TRM-CAT7-1 | **TRM-CAT7-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189086 | rna-TRT-CGT2-1 | **TRT-CGT2-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189088 | rna-TRP-TGG3-2 | **TRP-TGG3-2** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189089 | rna-TRL-CAG2-2 | **TRL-CAG2-2** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189090 | rna-TRC-GCA4-1 | **TRC-GCA4-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189091 | rna-TRE-CTC1-2 | **TRE-CTC1-2** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.048 |
| 100189092 | rna-TRA-AGC7-1 | **TRA-AGC7-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189093 | rna-TRA-AGC2-1 | **TRA-AGC2-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189094 | rna-TRX-CAT1-3 | **TRX-CAT1-3** | tRNA-Met | tRNA | 0 | 1 | 1 | 2 | 1.607 |
| 100189095 | rna-TRI-AAT8-1 | **TRI-AAT8-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189097 | rna-TRC-GCA3-1 | **TRC-GCA3-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189098 | rna-TRK-TTT8-1 | **TRK-TTT8-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189099 | rna-TRR-ACG2-3 | **TRR-ACG2-3** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189101 | rna-TRV-CAC7-1 | **TRV-CAC7-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.095 |
| 100189102 | rna-TRY-GTA5-2 | **TRY-GTA5-2** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189103 | rna-TRR-ACG2-1 | **TRR-ACG2-1** | tRNA-Arg | tRNA | 0 | 2 | 1 | 3 | 2.067 |
| 100189105 | rna-TRC-GCA2-3 | **TRC-GCA2-3** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 0.693 |
| 100189107 | rna-TRK-CTT1-1 | **TRK-CTT1-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.462 |
| 100189109 | rna-TRR-TCT3-1 | **TRR-TCT3-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189110 | rna-TRK-CTT2-4 | **TRK-CTT2-4** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189111 | rna-TRM-CAT3-2 | **TRM-CAT3-2** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189112 | rna-TRW-CCA3-3 | **TRW-CCA3-3** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189114 | rna-TRA-TGC2-1 | **TRA-TGC2-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189115 | rna-TRR-TCT3-2 | **TRR-TCT3-2** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189118 | rna-TRL-AAG4-1 | **TRL-AAG4-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189119 | rna-TRK-CTT3-1 | **TRK-CTT3-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 0.747 |
| 100189120 | rna-TRD-GTC2-5 | **TRD-GTC2-5** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.913 |
| 100189121 | rna-TRQ-CTG1-3 | **TRQ-CTG1-3** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189122 | rna-TRK-TTT3-1 | **TRK-TTT3-1** | tRNA-Lys | tRNA | 0 | 2 | 1 | 3 | 2.666 |
| 100189123 | rna-TRW-CCA1-1 | **TRW-CCA1-1** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 0.989 |
| 100189124 | rna-TRP-CGG1-3 | **TRP-CGG1-3** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.002 |
| 100189125 | rna-TRK-TTT1-1 | **TRK-TTT1-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189126 | rna-TRN-GTT1-1 | **TRN-GTT1-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189127 | rna-TRN-GTT2-8 | **TRN-GTT2-8** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189130 | rna-TRL-CAG2-1 | **TRL-CAG2-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189131 | rna-TRI-TAT2-3 | **TRI-TAT2-3** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189132 | rna-TRI-GAT1-1 | **TRI-GAT1-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189133 | rna-TRR-TCT1-1 | **TRR-TCT1-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189134 | rna-TRD-GTC2-4 | **TRD-GTC2-4** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.913 |
| 100189135 | rna-TRM-CAT2-1 | **TRM-CAT2-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189136 | rna-TRP-AGG2-7 | **TRP-AGG2-7** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189137 | rna-TRF-GAA1-1 | **TRF-GAA1-1** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189138 | rna-TRQ-TTG2-1 | **TRQ-TTG2-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189139 | rna-TRL-CAG1-5 | **TRL-CAG1-5** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189140 | rna-TRQ-CTG3-2 | **TRQ-CTG3-2** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189141 | rna-TRG-TCC2-3 | **TRG-TCC2-3** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189142 | rna-TRV-CAC8-1 | **TRV-CAC8-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189143 | rna-TRT-AGT6-1 | **TRT-AGT6-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.329 |
| 100189144 | rna-TRC-GCA1-1 | **TRC-GCA1-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189146 | rna-TRC-GCA16-1 | **TRC-GCA16-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189149 | rna-TRA-TGC1-1 | **TRA-TGC1-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189151 | rna-TRL-TAG2-1 | **TRL-TAG2-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189152 | rna-TRS-CGA4-1 | **TRS-CGA4-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189153 | rna-TRI-AAT5-1 | **TRI-AAT5-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189155 | rna-TRC-GCA5-1 | **TRC-GCA5-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189157 | rna-TRS-GCT1-1 | **TRS-GCT1-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189158 | rna-TRD-GTC2-6 | **TRD-GTC2-6** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100189159 | rna-TRS-GCT5-1 | **TRS-GCT5-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189160 | rna-TRG-GCC1-4 | **TRG-GCC1-4** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.199 |
| 100189161 | rna-TRV-AAC4-1 | **TRV-AAC4-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189162 | rna-TRY-GTA3-1 | **TRY-GTA3-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189163 | rna-TRG-GCC2-5 | **TRG-GCC2-5** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189164 | rna-TRL-TAA2-1 | **TRL-TAA2-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189166 | rna-TRR-TCT4-1 | **TRR-TCT4-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189167 | rna-TRR-ACG2-2 | **TRR-ACG2-2** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189168 | rna-TRR-CCT3-1 | **TRR-CCT3-1** | tRNA-Arg | tRNA | 1 | 0 | 2 | 1 | 0.760 |
| 100189169 | rna-TRL-AAG3-1 | **TRL-AAG3-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189170 | rna-TRF-GAA3-1 | **TRF-GAA3-1** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189171 | rna-TRW-CCA4-1 | **TRW-CCA4-1** | tRNA-Trp | tRNA | 1 | 1 | 2 | 2 | 1.251 |
| 100189172 | rna-TRP-CGG2-1 | **TRP-CGG2-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189173 | rna-TRR-CCG1-3 | **TRR-CCG1-3** | tRNA-Arg | tRNA | 0 | 1 | 1 | 2 | 1.850 |
| 100189174 | rna-TRH-GTG1-4 | **TRH-GTG1-4** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100189176 | rna-TRN-GTT2-5 | **TRN-GTT2-5** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189177 | rna-TRC-GCA19-1 | **TRC-GCA19-1** | tRNA-Cys | tRNA | 1 | 0 | 2 | 1 | 0.641 |
| 100189178 | rna-TRV-AAC6-1 | **TRV-AAC6-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189179 | rna-TRC-GCA6-1 | **TRC-GCA6-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189181 | rna-TRR-CCT2-1 | **TRR-CCT2-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189182 | rna-TRK-TTT6-1 | **TRK-TTT6-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189183 | rna-TRN-GTT13-1 | **TRN-GTT13-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189184 | rna-TRS-AGA2-6 | **TRS-AGA2-6** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100189185 | rna-TRQ-TTG3-2 | **TRQ-TTG3-2** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189187 | rna-TRT-AGT1-1 | **TRT-AGT1-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189188 | rna-TRG-TCC2-4 | **TRG-TCC2-4** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189189 | rna-TRQ-CTG1-2 | **TRQ-CTG1-2** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189190 | rna-TRW-CCA5-1 | **TRW-CCA5-1** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189191 | rna-TRV-TAC1-2 | **TRV-TAC1-2** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 0.975 |
| 100189193 | rna-TRN-GTT9-2 | **TRN-GTT9-2** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189194 | rna-TRC-GCA23-1 | **TRC-GCA23-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189195 | rna-TRN-GTT2-6 | **TRN-GTT2-6** | tRNA-Asn | tRNA | 2 | 0 | 3 | 1 | 0.322 |
| 100189196 | rna-TRV-CAC9-1 | **TRV-CAC9-1** | tRNA-Val | tRNA | 0 | 2 | 1 | 3 | 2.985 |
| 100189197 | rna-TRC-GCA2-1 | **TRC-GCA2-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189198 | rna-TRK-CTT2-1 | **TRK-CTT2-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189199 | rna-TRL-CAA4-1 | **TRL-CAA4-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189200 | rna-TRD-GTC3-1 | **TRD-GTC3-1** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189201 | rna-TRM-CAT1-1 | **TRM-CAT1-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189202 | rna-TRL-AAG2-2 | **TRL-AAG2-2** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189203 | rna-TRW-CCA2-1 | **TRW-CCA2-1** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189205 | rna-TRS-CGA3-1 | **TRS-CGA3-1** | tRNA-Ser | tRNA | 1 | 0 | 2 | 1 | 0.530 |
| 100189206 | rna-TRG-TCC3-1 | **TRG-TCC3-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189207 | rna-TRD-GTC1-1 | **TRD-GTC1-1** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.697 |
| 100189208 | rna-TRG-GCC2-2 | **TRG-GCC2-2** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189209 | rna-TRK-CTT5-1 | **TRK-CTT5-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189211 | rna-TRP-CGG1-1 | **TRP-CGG1-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189213 | rna-TRI-AAT3-1 | **TRI-AAT3-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189214 | rna-TRQ-CTG6-1 | **TRQ-CTG6-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189216 | rna-TRM-CAT3-1 | **TRM-CAT3-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189218 | rna-TRS-GCT6-1 | **TRS-GCT6-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189219 | rna-TRY-GTA6-1 | **TRY-GTA6-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189220 | rna-TRG-GCC5-1 | **TRG-GCC5-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189221 | rna-TRP-CGG1-2 | **TRP-CGG1-2** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189222 | rna-TRT-AGT1-2 | **TRT-AGT1-2** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189223 | rna-TRP-AGG2-2 | **TRP-AGG2-2** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189224 | rna-TRP-TGG2-1 | **TRP-TGG2-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189225 | rna-TRS-GCT4-1 | **TRS-GCT4-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189226 | rna-TRM-CAT6-1 | **TRM-CAT6-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189227 | rna-TRV-CAC1-6 | **TRV-CAC1-6** | tRNA-Val | tRNA | 2 | 0 | 3 | 1 | 0.373 |
| 100189228 | rna-TRV-CAC1-7 | **TRV-CAC1-7** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189229 | rna-TRS-GCT4-2 | **TRS-GCT4-2** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189230 | rna-TRG-GCC1-3 | **TRG-GCC1-3** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.165 |
| 100189231 | rna-TRG-CCC2-1 | **TRG-CCC2-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189232 | rna-TRA-TGC3-2 | **TRA-TGC3-2** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189234 | rna-TRK-TTT3-3 | **TRK-TTT3-3** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189235 | rna-TRD-GTC2-2 | **TRD-GTC2-2** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.801 |
| 100189237 | rna-TRL-CAA1-2 | **TRL-CAA1-2** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189238 | rna-TRK-TTT5-1 | **TRK-TTT5-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189239 | rna-TRD-GTC2-8 | **TRD-GTC2-8** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189240 | rna-TRL-TAA3-1 | **TRL-TAA3-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189243 | rna-TRR-ACG1-3 | **TRR-ACG1-3** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 0.894 |
| 100189245 | rna-TRT-CGT4-1 | **TRT-CGT4-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189247 | rna-TRS-AGA2-4 | **TRS-AGA2-4** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189248 | rna-TRS-AGA2-5 | **TRS-AGA2-5** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189249 | rna-TRI-AAT1-1 | **TRI-AAT1-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189250 | rna-TRC-GCA9-1 | **TRC-GCA9-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189251 | rna-TRF-GAA1-5 | **TRF-GAA1-5** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.340 |
| 100189252 | rna-TRG-GCC1-2 | **TRG-GCC1-2** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.131 |
| 100189253 | rna-TRY-ATA1-1 | **TRY-ATA1-1** | tRNA-Tyr | tRNA | 0 | 1 | 1 | 2 | 1.931 |
| 100189254 | rna-TRF-GAA1-2 | **TRF-GAA1-2** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189255 | rna-TRX-CAT1-8 | **TRX-CAT1-8** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189257 | rna-TRN-GTT11-2 | **TRN-GTT11-2** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189259 | rna-TRE-CTC1-4 | **TRE-CTC1-4** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.061 |
| 100189260 | rna-TRG-TCC2-2 | **TRG-TCC2-2** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189261 | rna-TRQ-CTG4-2 | **TRQ-CTG4-2** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189263 | rna-TRT-TGT5-1 | **TRT-TGT5-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189264 | rna-TRR-TCG1-1 | **TRR-TCG1-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.192 |
| 100189265 | rna-TRI-TAT2-1 | **TRI-TAT2-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189267 | rna-TRC-GCA15-1 | **TRC-GCA15-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189268 | rna-TRQ-CTG2-1 | **TRQ-CTG2-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189269 | rna-TRE-CTC1-7 | **TRE-CTC1-7** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189270 | rna-TRR-CCT5-1 | **TRR-CCT5-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189272 | rna-TRY-GTA1-1 | **TRY-GTA1-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189273 | rna-TRL-AAG1-2 | **TRL-AAG1-2** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189274 | rna-TRG-GCC4-1 | **TRG-GCC4-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189275 | rna-TRI-AAT5-4 | **TRI-AAT5-4** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189276 | rna-TRP-AGG2-3 | **TRP-AGG2-3** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189277 | rna-TRG-CCC3-1 | **TRG-CCC3-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189279 | rna-TRS-TGA1-1 | **TRS-TGA1-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189280 | rna-TRA-TGC3-1 | **TRA-TGC3-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189281 | rna-TRP-TGG3-5 | **TRP-TGG3-5** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189282 | rna-TRK-CTT2-5 | **TRK-CTT2-5** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189283 | rna-TRV-TAC2-1 | **TRV-TAC2-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189284 | rna-TRG-GCC1-5 | **TRG-GCC1-5** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.398 |
| 100189285 | rna-TRS-GCT3-1 | **TRS-GCT3-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189286 | rna-TRP-TGG1-1 | **TRP-TGG1-1** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189287 | rna-TRQ-CTG1-1 | **TRQ-CTG1-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189288 | rna-TRL-CAG1-7 | **TRL-CAG1-7** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189289 | rna-TRC-GCA17-1 | **TRC-GCA17-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189290 | rna-TRD-GTC2-3 | **TRD-GTC2-3** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.913 |
| 100189291 | rna-TRL-AAG2-4 | **TRL-AAG2-4** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189292 | rna-TRD-GTC2-7 | **TRD-GTC2-7** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189294 | rna-TRK-TTT2-1 | **TRK-TTT2-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189295 | rna-TRA-AGC2-2 | **TRA-AGC2-2** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189296 | rna-TRP-AGG2-8 | **TRP-AGG2-8** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189297 | rna-TRX-CAT1-6 | **TRX-CAT1-6** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189298 | rna-TRG-CCC1-2 | **TRG-CCC1-2** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189299 | rna-TRA-AGC3-1 | **TRA-AGC3-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189300 | rna-TRT-CGT5-1 | **TRT-CGT5-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189301 | rna-TRL-CAA2-1 | **TRL-CAA2-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189303 | rna-TRM-CAT5-1 | **TRM-CAT5-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189305 | rna-TRC-GCA10-1 | **TRC-GCA10-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189306 | rna-TRF-GAA1-6 | **TRF-GAA1-6** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189307 | rna-TRH-GTG1-3 | **TRH-GTG1-3** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189308 | rna-TRA-CGC1-1 | **TRA-CGC1-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189310 | rna-TRI-AAT5-3 | **TRI-AAT5-3** | tRNA-Ile | tRNA | 0 | 1 | 1 | 2 | 1.899 |
| 100189313 | rna-TRL-TAA1-1 | **TRL-TAA1-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189314 | rna-TRG-GCC2-3 | **TRG-GCC2-3** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189315 | rna-TRX-CAT1-7 | **TRX-CAT1-7** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189316 | rna-TRL-CAG1-3 | **TRL-CAG1-3** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189317 | rna-TRQ-CTG1-4 | **TRQ-CTG1-4** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189318 | rna-TRV-AAC1-1 | **TRV-AAC1-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189319 | rna-TRT-AGT2-1 | **TRT-AGT2-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189321 | rna-TRQ-TTG3-1 | **TRQ-TTG3-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189323 | rna-TRN-GTT3-1 | **TRN-GTT3-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.022 |
| 100189324 | rna-TRI-TAT1-1 | **TRI-TAT1-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189326 | rna-TRV-CAC4-1 | **TRV-CAC4-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189328 | rna-TRL-AAG2-1 | **TRL-AAG2-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189329 | rna-TRQ-CTG5-1 | **TRQ-CTG5-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189331 | rna-TRS-GCT4-3 | **TRS-GCT4-3** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189332 | rna-TRK-TTT7-1 | **TRK-TTT7-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100189333 | rna-TRE-TTC1-2 | **TRE-TTC1-2** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189334 | rna-TRH-GTG1-2 | **TRH-GTG1-2** | tRNA-His | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189335 | rna-TRP-TGG3-3 | **TRP-TGG3-3** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189336 | rna-TRI-AAT5-2 | **TRI-AAT5-2** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189337 | rna-TRY-GTA8-1 | **TRY-GTA8-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189339 | rna-TRA-TGC4-1 | **TRA-TGC4-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189340 | rna-TRT-AGT2-2 | **TRT-AGT2-2** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189342 | rna-TRV-TAC3-1 | **TRV-TAC3-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189343 | rna-TRD-GTC2-9 | **TRD-GTC2-9** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189344 | rna-TRT-TGT1-1 | **TRT-TGT1-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189345 | rna-TRX-CAT1-5 | **TRX-CAT1-5** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189346 | rna-TRA-AGC1-1 | **TRA-AGC1-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189347 | rna-TRD-GTC2-10 | **TRD-GTC2-10** | tRNA-Asp | tRNA | 0 | 1 | 1 | 2 | 1.675 |
| 100189348 | rna-TRI-TAT3-1 | **TRI-TAT3-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189352 | rna-TRS-AGA1-1 | **TRS-AGA1-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189354 | rna-TRM-CAT4-2 | **TRM-CAT4-2** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189355 | rna-TRC-GCA20-1 | **TRC-GCA20-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189356 | rna-TRN-GTT12-1 | **TRN-GTT12-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189357 | rna-TRC-GCA13-1 | **TRC-GCA13-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189359 | rna-TRC-GCA8-1 | **TRC-GCA8-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189360 | rna-TRT-CGT3-1 | **TRT-CGT3-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189362 | rna-TRL-AAG1-1 | **TRL-AAG1-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189363 | rna-TRV-CAC2-1 | **TRV-CAC2-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189364 | rna-TRL-CAG1-4 | **TRL-CAG1-4** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189365 | rna-TRR-CCG1-1 | **TRR-CCG1-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189366 | rna-TRG-GCC1-1 | **TRG-GCC1-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.098 |
| 100189368 | rna-TRV-CAC6-1 | **TRV-CAC6-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189370 | rna-TRL-CAA5-1 | **TRL-CAA5-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189371 | rna-TRR-TCG3-1 | **TRR-TCG3-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189372 | rna-TRI-AAT6-1 | **TRI-AAT6-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189373 | rna-TRV-CAC1-1 | **TRV-CAC1-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189374 | rna-TRT-AGT4-1 | **TRT-AGT4-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189375 | rna-TRC-GCA21-1 | **TRC-GCA21-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189376 | rna-TRC-GCA9-3 | **TRC-GCA9-3** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189378 | rna-TRT-TGT2-1 | **TRT-TGT2-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189379 | rna-TRC-GCA9-4 | **TRC-GCA9-4** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189380 | rna-TRG-GCC2-1 | **TRG-GCC2-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 0.669 |
| 100189382 | rna-TRS-AGA2-1 | **TRS-AGA2-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189383 | rna-TRD-GTC2-11 | **TRD-GTC2-11** | tRNA-Asp | tRNA | 0 | 0 | 1 | 1 | 0.999 |
| 100189384 | rna-TRE-CTC1-1 | **TRE-CTC1-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189385 | rna-TRE-CTC1-3 | **TRE-CTC1-3** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.054 |
| 100189387 | rna-TRI-AAT5-5 | **TRI-AAT5-5** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189388 | rna-TRP-TGG3-4 | **TRP-TGG3-4** | tRNA-Pro | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189390 | rna-TRK-TTT9-1 | **TRK-TTT9-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189391 | rna-TRM-CAT4-1 | **TRM-CAT4-1** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189393 | rna-TRI-AAT4-1 | **TRI-AAT4-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 0.999 |
| 100189394 | rna-TRL-CAG1-1 | **TRL-CAG1-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189395 | rna-TRA-CGC5-1 | **TRA-CGC5-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189396 | rna-TRR-ACG1-1 | **TRR-ACG1-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189399 | rna-TRK-CTT2-2 | **TRK-CTT2-2** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189400 | rna-TRA-CGC2-1 | **TRA-CGC2-1** | tRNA-Ala | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189401 | rna-TRI-AAT7-1 | **TRI-AAT7-1** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189402 | rna-TRN-GTT2-2 | **TRN-GTT2-2** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189405 | rna-TRY-GTA4-1 | **TRY-GTA4-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189406 | rna-TRR-CCT4-1 | **TRR-CCT4-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189407 | rna-TRE-TTC4-2 | **TRE-TTC4-2** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189408 | rna-TRV-TAC4-1 | **TRV-TAC4-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189409 | rna-TRE-CTC2-1 | **TRE-CTC2-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189410 | rna-TRR-TCG2-1 | **TRR-TCG2-1** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 0.733 |
| 100189412 | rna-TRD-GTC2-1 | **TRD-GTC2-1** | tRNA-Asp | tRNA | 1 | 0 | 2 | 1 | 0.734 |
| 100189413 | rna-TRC-GCA9-2 | **TRC-GCA9-2** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189414 | rna-TRC-GCA2-4 | **TRC-GCA2-4** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189415 | rna-TRF-GAA1-3 | **TRF-GAA1-3** | tRNA-Phe | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189416 | rna-TRV-CAC3-1 | **TRV-CAC3-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189418 | rna-TRE-TTC1-1 | **TRE-TTC1-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189419 | rna-TRT-TGT4-1 | **TRT-TGT4-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189422 | rna-TRQ-TTG4-1 | **TRQ-TTG4-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189424 | rna-TRY-GTA5-3 | **TRY-GTA5-3** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189425 | rna-TRK-TTT3-2 | **TRK-TTT3-2** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189427 | rna-TRI-GAT1-3 | **TRI-GAT1-3** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189428 | rna-TRR-ACG2-4 | **TRR-ACG2-4** | tRNA-Arg | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189430 | rna-TRS-TGA3-1 | **TRS-TGA3-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189432 | rna-TRS-AGA5-1 | **TRS-AGA5-1** | tRNA-Ser | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189433 | rna-TRT-AGT3-1 | **TRT-AGT3-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.174 |
| 100189435 | rna-TRC-GCA14-1 | **TRC-GCA14-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189436 | rna-TRW-CCA3-1 | **TRW-CCA3-1** | tRNA-Trp | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189437 | rna-TRY-GTA5-1 | **TRY-GTA5-1** | tRNA-Tyr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189438 | rna-TRT-AGT5-1 | **TRT-AGT5-1** | tRNA-Thr | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189541 | rna-TRV-CAC1-4 | **TRV-CAC1-4** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100189589 | NR_024463,NR_15 | **DCTN1-AS1** | DCTN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100190799 | gene-LDHAP2 | **LDHAP2** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190800 | gene-LDHAP7 | **LDHAP7** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 0.978 |
| 100190922 | gene-LOC10019092 | **LOC100190922** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190923 | gene-EIF4EBP2P2 | **EIF4EBP2P2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190924 | gene-EIF4EBP2P3 | **EIF4EBP2P3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190938 | NR_024461,NR_02 | **RAMP2-AS1** | RAMP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100190939 | NR_024458 | **TPT1-AS1** | TPT1 antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 1.015 |
| 100190940 | NR_024457 | **LINC02418** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100190947 | gene-SUPT4H1P1 | **SUPT4H1P1** | SPT4 homolog, DSIF elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190949 | NM_001145132,XM_ | **C5orf52** | chromosome 5 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100190952 | gene-NDUFB1P1 | **NDUFB1P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 0.903 |
| 100190954 | gene-EXOSC3P2 | **EXOSC3P2** | exosome component 3 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100190986 | NR_024456 | **LOC100190986** | uncharacterized LOC100 | lncRNA | 4 | 2 | 5 | 3 | 0.687 |
| 100190987 | gene-FDPSP10 | **FDPSP10** | farnesyl diphosphate syr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100191039 | gene-RPL36AP33 | **RPL36AP33** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100191040 | NM_001136003,XM_ | **C2CD4D** | C2 calcium dependent d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100191063 | NR_024242 | **SNAR-A14** | small NF90 (ILF3) associ | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100192204 | NR_036506 | **PPIAP30** | peptidylprolyl isomerase | transcribed_pseu | 0 | 0 | 1 | 1 | 0.994 |
| 100192378 | NR_024360 | **ZFHX4-AS1** | ZFHX4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100192379 | NR_024365 | **PP12613** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100192386 | NR_024389 | **FLJ16779** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100192420 | NR_024417 | **LINC01634** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100192426 | NR_024419 | **LOC100192426** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100194425 | gene-BCAP31P1 | **BCAP31P1** | B cell receptor associate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100194426 | gene-BCAP31P2 | **BCAP31P2** | B cell receptor associate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100196944 | gene-LOC10019694 | **LOC100196944** | CD2 cytoplasmic tail bin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216001 | NR_024475 | **MANCR** | mitotically associated lon | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100216336 | gene-RPS24P8 | **RPS24P8** | ribosomal protein S24 ps | pseudogene | 3 | 4 | 4 | 5 | 1.061 |
| 100216337 | gene-LOC10021633 | **LOC100216337** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216338 | gene-RPS24P13 | **RPS24P13** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216339 | gene-RPS24P6 | **RPS24P6** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216340 | gene-RPS24P16 | **RPS24P16** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216341 | gene-RPS24P17 | **RPS24P17** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216342 | gene-RPS24P7 | **RPS24P7** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216346 | gene-LOC10021634 | **LOC100216346** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216466 | gene-DNM1P43 | **DNM1P43** | dynamin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216479 | NR_046258,NR_04 | **FAR2P2** | fatty acyl-CoA reductase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100216487 | gene-AKIRIN2P1 | **AKIRIN2P1** | akirin 2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216515 | gene-DNM1P36 | **DNM1P36** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216516 | gene-DNM1P37 | **DNM1P37** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216517 | gene-DNM1P38 | **DNM1P38** | dynamin 1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.739 |
| 100216542 | gene-DNM1P45 | **DNM1P45** | dynamin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216544 | gene-DNM1P47 | **DNM1P47** | dynamin 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100216545 | NR_024586 | **KMT2E-AS1** | KMT2E antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 0.911 |
| 100216546 | NR_039981 | **LINC01004** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.920 |
| 100233146 | gene-HINT1P2 | **HINT1P2** | histidine triad nucleotide | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100233198 | gene-TMX2P1 | **TMX2P1** | thioredoxin related transı | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 100233209 | NR_026544 | **PCED1B-AS1** | PCED1B antisense RNA | lncRNA | 2 | 3 | 3 | 4 | 1.390 |
| 100240707 | gene-GAPDHP42 | **GAPDHP42** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240708 | gene-GAPDHP43 | **GAPDHP43** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 0.926 |
| 100240710 | gene-GAPDHP45 | **GAPDHP45** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240711 | gene-GAPDHP46 | **GAPDHP46** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240712 | gene-GAPDHP47 | **GAPDHP47** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240713 | gene-GAPDHP48 | **GAPDHP48** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240714 | gene-LOC10024071 | **LOC100240714** | multimerin 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100240728 | NR_108095 | **LOC100240728** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100240734 | NR_026657 | **LOC100240734** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100240735 | NR_026658 | **LOC100240735** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100268168 | NR_026682,NR_02 | **LOC100268168** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.278 |
| 100270648 | gene-NIFKP3 | **NIFKP3** | nucleolar protein interact | pseudogene | 0 | 0 | 1 | 1 | 0.893 |
| 100270670 | gene-LOC10027067 | **LOC100270670** | chloride nucleotide-sens | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 100270673 | gene-FABP5P12 | **FABP5P12** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270679 | NR_038394 | **LINC01432** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100270680 | NR_117101,NR_11 | **CASC11** | cancer susceptibility 11 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100270709 | gene-FTH1P27 | **FTH1P27** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270746 | NR_026776 | **LOC100270746** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100270753 | gene-RPL21P112 | **RPL21P112** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270755 | gene-RPSAP63 | **RPSAP63** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270790 | gene-GNL2P1 | **GNL2P1** | G protein nucleolar 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270804 | NR_026885 | **LINC00653** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.803 |
| 100270823 | gene-RPL7P11 | **RPL7P11** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270828 | gene-RPL37P9 | **RPL37P9** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270829 | gene-RPL39P12 | **RPL39P12** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270832 | gene-RPL5P9 | **RPL5P9** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.296 |
| 100270833 | gene-RPL5P12 | **RPL5P12** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270835 | gene-RPL5P14 | **RPL5P14** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270836 | gene-RPL5P15 | **RPL5P15** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270839 | gene-RPL5P17 | **RPL5P17** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270840 | gene-RPL5P23 | **RPL5P23** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.074 |
| 100270841 | gene-RPL5P24 | **RPL5P24** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100270846 | gene-RPL6P21 | **RPL6P21** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270848 | gene-RPL6P7 | **RPL6P7** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270850 | gene-RPL7P15 | **RPL7P15** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 100270852 | gene-RPL7P18 | **RPL7P18** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.026 |
| 100270853 | gene-RPL7P19 | **RPL7P19** | ribosomal protein L7 pse | pseudogene | 1 | 1 | 2 | 2 | 0.889 |
| 100270854 | gene-RPL8P3 | **RPL8P3** | ribosomal protein L8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270855 | gene-RPL9P10 | **RPL9P10** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270860 | gene-RPS2P16 | **RPS2P16** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270862 | gene-RPS3P4 | **RPS3P4** | ribosomal protein S3 pse | pseudogene | 0 | 1 | 1 | 2 | 1.297 |
| 100270865 | gene-RPS6P10 | **RPS6P10** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 0.814 |
| 100270869 | gene-RPS7P6 | **RPS7P6** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270870 | gene-RPS7P7 | **RPS7P7** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270872 | gene-RPSAP16 | **RPSAP16** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270873 | gene-RPSAP17 | **RPSAP17** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 100270875 | gene-RPSAP23 | **RPSAP23** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270877 | gene-RPL21P21 | **RPL21P21** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270878 | gene-RPL21P22 | **RPL21P22** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270879 | gene-RPL21P23 | **RPL21P23** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270880 | gene-RPL21P24 | **RPL21P24** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270882 | gene-RPL21P26 | **RPL21P26** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270886 | gene-RPL26P10 | **RPL26P10** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270887 | gene-RPL31P12 | **RPL31P12** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100270888 | gene-RPL32P6 | **RPL32P6** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270889 | gene-RPL34P4 | **RPL34P4** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270890 | gene-RPL37P7 | **RPL37P7** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270891 | gene-RPL39P6 | **RPL39P6** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270892 | gene-RPL39P7 | **RPL39P7** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270893 | gene-RPL39P8 | **RPL39P8** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 0.889 |
| 100270894 | gene-RPL39P9 | **RPL39P9** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270895 | gene-RPL7AP15 | **RPL7AP15** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270896 | gene-RPL7AP16 | **RPL7AP16** | ribosomal protein L7a ps | pseudogene | 1 | 1 | 2 | 2 | 0.951 |
| 100270897 | gene-RPL7AP17 | **RPL7AP17** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270899 | gene-RPS20P5 | **RPS20P5** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270900 | gene-RPS20P6 | **RPS20P6** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270901 | gene-RPS20P7 | **RPS20P7** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270902 | gene-RPS26P14 | **RPS26P14** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270904 | gene-RPS3AP11 | **RPS3AP11** | RPS3A pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270905 | gene-RPS3AP12 | **RPS3AP12** | RPS3A pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 100270907 | gene-RPL6P12 | **RPL6P12** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270910 | gene-RPS2P23 | **RPS2P23** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270912 | gene-RPS2P24 | **RPS2P24** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270914 | gene-RPS7P12 | **RPS7P12** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270917 | gene-RPSAP40 | **RPSAP40** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270918 | gene-RPSAP41 | **RPSAP41** | ribosomal protein SA pse | pseudogene | 10 | 5 | 11 | 6 | 0.590 |
| 100270920 | gene-RPL12P15 | **RPL12P15** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270921 | gene-RPL12P21 | **RPL12P21** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270926 | gene-RPL12P25 | **RPL12P25** | ribosomal protein L12 ps | pseudogene | 0 | 1 | 1 | 2 | 1.506 |
| 100270930 | gene-RPL14P2 | **RPL14P2** | ribosomal protein L14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270933 | gene-RPL15P6 | **RPL15P6** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270934 | gene-RPL15P8 | **RPL15P8** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270935 | gene-RPL15P9 | **RPL15P9** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270936 | gene-RPL17P10 | **RPL17P10** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270943 | gene-RPL17P17 | **RPL17P17** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270944 | gene-RPL18P5 | **RPL18P5** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270945 | gene-RPL18P7 | **RPL18P7** | ribosomal protein L18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270946 | gene-RPL19P6 | **RPL19P6** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270948 | gene-RPL19P10 | **RPL19P10** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270950 | gene-RPL19P11 | **RPL19P11** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270951 | gene-RPL19P14 | **RPL19P14** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270952 | gene-RPL21P27 | **RPL21P27** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270953 | gene-RPL21P33 | **RPL21P33** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270954 | gene-RPL21P34 | **RPL21P34** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270955 | gene-RPL21P35 | **RPL21P35** | ribosomal protein L21 ps | pseudogene | 2 | 2 | 3 | 3 | 0.967 |
| 100270956 | gene-RPL21P36 | **RPL21P36** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100270957 | gene-RPL22P8 | **RPL22P8** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270959 | gene-RPL22P16 | **RPL22P16** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.021 |
| 100270960 | gene-RPL22P14 | **RPL22P14** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270965 | gene-RPL26P15 | **RPL26P15** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270966 | gene-RPL26P25 | **RPL26P25** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270967 | gene-RPL26P26 | **RPL26P26** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270968 | gene-RPL26P18 | **RPL26P18** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270972 | gene-RPL29P7 | **RPL29P7** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270974 | gene-RPL29P14 | **RPL29P14** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.146 |
| 100270976 | gene-RPL30P2 | **RPL30P2** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270977 | gene-RPL30P3 | **RPL30P3** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270979 | gene-RPL30P7 | **RPL30P7** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270984 | gene-RPL31P15 | **RPL31P15** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270985 | gene-RPL31P19 | **RPL31P19** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270992 | gene-RPL32P9 | **RPL32P9** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270993 | gene-RPL32P13 | **RPL32P13** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270995 | gene-RPL34P5 | **RPL34P5** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.235 |
| 100270997 | gene-RPL34P13 | **RPL34P13** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100270998 | gene-RPL34P6 | **RPL34P6** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271000 | gene-RPL34P15 | **RPL34P15** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271001 | gene-RPL34P17 | **RPL34P17** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 0.842 |
| 100271002 | gene-RPL34P9 | **RPL34P9** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271003 | gene-RPL34P18 | **RPL34P18** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.109 |
| 100271006 | gene-RPL35P4 | **RPL35P4** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271007 | gene-RPL35P6 | **RPL35P6** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271009 | gene-RPL36P9 | **RPL36P9** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271012 | gene-RPL36P12 | **RPL36P12** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271013 | gene-RPL36P13 | **RPL36P13** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100271014 | gene-RPL37P8 | **RPL37P8** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271016 | gene-RPL37P11 | **RPL37P11** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271017 | gene-RPL37P12 | **RPL37P12** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271021 | gene-RPL37P16 | **RPL37P16** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271022 | gene-RPL39P11 | **RPL39P11** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271024 | gene-RPL39P17 | **RPL39P17** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271025 | gene-RPL39P18 | **RPL39P18** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 100271027 | gene-RPL39P19 | **RPL39P19** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.025 |
| 100271028 | gene-RPL39P22 | **RPL39P22** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271030 | gene-UBA52P4 | **UBA52P4** | ubiquitin A-52 residue rit | pseudogene | 0 | 0 | 1 | 1 | 1.062 |
| 100271031 | gene-UBA52P5 | **UBA52P5** | ubiquitin A-52 residue rit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271033 | gene-RPL4P6 | **RPL4P6** | ribosomal protein L4 pse | pseudogene | 1 | 0 | 2 | 1 | 0.846 |
| 100271034 | gene-RPL6P24 | **RPL6P24** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271035 | gene-RPL6P26 | **RPL6P26** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271036 | gene-RPL7AP19 | **RPL7AP19** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271037 | gene-RPL7AP20 | **RPL7AP20** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271038 | gene-RPL7AP21 | **RPL7AP21** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271039 | gene-RPL7AP22 | **RPL7AP22** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 0.858 |
| 100271040 | gene-RPL7AP23 | **RPL7AP23** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271042 | gene-RPL7AP25 | **RPL7AP25** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271043 | gene-RPL7AP29 | **RPL7AP29** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271047 | gene-RPLP0P7 | **RPLP0P7** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271050 | gene-RPS10P16 | **RPS10P16** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271053 | gene-RPS12P5 | **RPS12P5** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271058 | gene-RPS12P14 | **RPS12P14** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 100271061 | gene-RPS13P5 | **RPS13P5** | ribosomal protein S13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.180 |
| 100271062 | gene-RPS13P6 | **RPS13P6** | ribosomal protein S13 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271063 | gene-RPS14P1 | **RPS14P1** | ribosomal protein S14 ps | pseudogene | 4 | 5 | 5 | 6 | 1.268 |
| 100271064 | gene-RPS14P2 | **RPS14P2** | ribosomal protein S14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.250 |
| 100271066 | gene-RPS15P2 | **RPS15P2** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.146 |
| 100271070 | gene-RPS17P8 | **RPS17P8** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271071 | gene-RPS17P10 | **RPS17P10** | ribosomal protein S17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 100271075 | gene-RPS18P4 | **RPS18P4** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271076 | gene-RPS18P6 | **RPS18P6** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271077 | gene-RPS18P11 | **RPS18P11** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271080 | gene-RPS20P9 | **RPS20P9** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271081 | gene-RPS20P10 | **RPS20P10** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271082 | gene-RPS20P11 | **RPS20P11** | ribosomal protein S20 ps | pseudogene | 2 | 2 | 3 | 3 | 1.035 |
| 100271083 | gene-RPS20P12 | **RPS20P12** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 100271084 | gene-RPS20P13 | **RPS20P13** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271086 | gene-RPS20P16 | **RPS20P16** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271087 | gene-RPS20P22 | **RPS20P22** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271088 | gene-RPS20P17 | **RPS20P17** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271090 | gene-RPS21P1 | **RPS21P1** | ribosomal protein S21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.783 |
| 100271094 | gene-RPS24P5 | **RPS24P5** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271100 | gene-RPS25P2 | **RPS25P2** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271102 | gene-RPS25P5 | **RPS25P5** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271103 | gene-RPS25P7 | **RPS25P7** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271106 | gene-RPS26P13 | **RPS26P13** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271108 | gene-RPS26P18 | **RPS26P18** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271109 | gene-RPS26P26 | **RPS26P26** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271114 | gene-RPS26P34 | **RPS26P34** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271115 | gene-RPS27P11 | **RPS27P11** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271117 | gene-RPS27P12 | **RPS27P12** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271118 | gene-RPS27P15 | **RPS27P15** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271124 | gene-RPS29P5 | **RPS29P5** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271125 | gene-FAUP2 | **FAUP2** | FAU pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271129 | gene-RPS3AP9 | **RPS3AP9** | RPS3A pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271132 | gene-RPS4XP5 | **RPS4XP5** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 0.948 |
| 100271133 | gene-RPS4XP10 | **RPS4XP10** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271135 | gene-RPS6P18 | **RPS6P18** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271136 | gene-RPS6P19 | **RPS6P19** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271137 | gene-RPL13AP9 | **RPL13AP9** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271138 | gene-RPL23AP17 | **RPL23AP17** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271139 | gene-RPL36AP9 | **RPL36AP9** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271140 | gene-RPL36AP10 | **RPL36AP10** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271141 | gene-RPS15AP6 | **RPS15AP6** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271142 | gene-RPS15AP7 | **RPS15AP7** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271143 | gene-RPS15AP8 | **RPS15AP8** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271146 | gene-RPL7P54 | **RPL7P54** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271147 | gene-RPL7P55 | **RPL7P55** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271149 | gene-RPSAP60 | **RPSAP60** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271152 | gene-RPL17P23 | **RPL17P23** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271153 | gene-RPL17P24 | **RPL17P24** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271156 | gene-RPL17P31 | **RPL17P31** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271157 | gene-RPL21P30 | **RPL21P30** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271158 | gene-RPL21P40 | **RPL21P40** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271160 | gene-RPL21P31 | **RPL21P31** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271162 | gene-RPL21P42 | **RPL21P42** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271163 | gene-RPL21P43 | **RPL21P43** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271165 | gene-RPL21P48 | **RPL21P48** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271167 | gene-RPL21P50 | **RPL21P50** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271169 | gene-RPL21P51 | **RPL21P51** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.097 |
| 100271170 | gene-RPL21P55 | **RPL21P55** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271171 | gene-RPL21P56 | **RPL21P56** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271172 | gene-RPL21P57 | **RPL21P57** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271173 | gene-RPL21P58 | **RPL21P58** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271174 | gene-RPL21P59 | **RPL21P59** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271175 | gene-RPL21P60 | **RPL21P60** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271176 | gene-RPL21P63 | **RPL21P63** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271178 | gene-RPL21P65 | **RPL21P65** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271179 | gene-RPL21P66 | **RPL21P66** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271180 | gene-RPL21P67 | **RPL21P67** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271181 | gene-RPL21P72 | **RPL21P72** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271182 | gene-RPL21P73 | **RPL21P73** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271183 | gene-RPL21P77 | **RPL21P77** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271184 | gene-RPL21P74 | **RPL21P74** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271185 | gene-RPL21P78 | **RPL21P78** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271186 | gene-RPL21P83 | **RPL21P83** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271187 | gene-RPL21P84 | **RPL21P84** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271188 | gene-RPL21P79 | **RPL21P79** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100271190 | gene-RPL21P86 | **RPL21P86** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271192 | gene-RPL30P15 | **RPL30P15** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271194 | gene-RPL31P24 | **RPL31P24** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271198 | gene-RPL31P27 | **RPL31P27** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271199 | gene-RPL31P35 | **RPL31P35** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 100271200 | gene-RPL31P36 | **RPL31P36** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271202 | gene-RPL37P17 | **RPL37P17** | ribosomal protein L37 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271203 | gene-RPL39P23 | **RPL39P23** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271204 | gene-RPL5P25 | **RPL5P25** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271206 | gene-RPL5P26 | **RPL5P26** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271207 | gene-RPL5P32 | **RPL5P32** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271208 | gene-RPL6P28 | **RPL6P28** | ribosomal protein L6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271210 | gene-RPL7AP35 | **RPL7AP35** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271211 | gene-RPL7AP47 | **RPL7AP47** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271212 | gene-RPL7AP48 | **RPL7AP48** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271213 | gene-RPL7AP41 | **RPL7AP41** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271215 | gene-RPL7AP42 | **RPL7AP42** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271216 | gene-RPL7P35 | **RPL7P35** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271217 | gene-RPL7P39 | **RPL7P39** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271218 | gene-RPL7P36 | **RPL7P36** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271221 | gene-RPL7P49 | **RPL7P49** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271222 | gene-RPL7P41 | **RPL7P41** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271224 | gene-RPL7P43 | **RPL7P43** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271225 | gene-RPL7P45 | **RPL7P45** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271226 | gene-RPL7P51 | **RPL7P51** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 0.974 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100271228 | gene-RPL9P31 | **RPL9P31** | ribosomal protein L9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271231 | gene-RPS20P18 | **RPS20P18** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271232 | gene-RPS20P24 | **RPS20P24** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 100271234 | gene-RPS20P21 | **RPS20P21** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 100271238 | gene-RPS26P37 | **RPS26P37** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271239 | gene-RPS26P33 | **RPS26P33** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271240 | gene-RPS26P36 | **RPS26P36** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271241 | gene-RPS29P15 | **RPS29P15** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271247 | gene-RPS2P42 | **RPS2P42** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271248 | gene-RPS2P44 | **RPS2P44** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 0.919 |
| 100271250 | gene-RPS2P52 | **RPS2P52** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271251 | gene-RPS2P49 | **RPS2P49** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271252 | gene-RPS2P54 | **RPS2P54** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271254 | gene-RPS3AP30 | **RPS3AP30** | RPS3A pseudogene 30 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271256 | gene-RPS3AP31 | **RPS3AP31** | RPS3A pseudogene 31 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271257 | gene-RPS3AP28 | **RPS3AP28** | RPS3A pseudogene 28 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271258 | gene-RPS3AP32 | **RPS3AP32** | RPS3A pseudogene 32 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271259 | gene-RPS3AP33 | **RPS3AP33** | RPS3A pseudogene 33 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271260 | gene-RPS3AP34 | **RPS3AP34** | RPS3A pseudogene 34 | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 100271261 | gene-RPS3AP35 | **RPS3AP35** | RPS3A pseudogene 35 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271263 | gene-RPS6P21 | **RPS6P21** | ribosomal protein S6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271267 | gene-RPSAP51 | **RPSAP51** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271271 | gene-RPL11P3 | **RPL11P3** | ribosomal protein L11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.095 |
| 100271272 | gene-RPL11P4 | **RPL11P4** | ribosomal protein L11 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271273 | gene-RPL12P28 | **RPL12P28** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 100271274 | gene-RPL12P29 | **RPL12P29** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271276 | gene-RPL13AP11 | **RPL13AP11** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271278 | gene-RPL13AP14 | **RPL13AP14** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 0.913 |
| 100271279 | gene-RPL13AP15 | **RPL13AP15** | ribosomal protein L13a p | pseudogene | 1 | 1 | 2 | 2 | 1.039 |
| 100271282 | gene-RPL14P4 | **RPL14P4** | ribosomal protein L14 ps | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 100271283 | gene-RPL15P14 | **RPL15P14** | ribosomal protein L15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271285 | gene-RPL18AP10 | **RPL18AP10** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100271287 | gene-RPL19P17 | **RPL19P17** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271288 | gene-RPL19P18 | **RPL19P18** | ribosomal protein L19 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271289 | gene-RPL22P17 | **RPL22P17** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271290 | gene-RPL22P18 | **RPL22P18** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271291 | gene-RPL23AP22 | **RPL23AP22** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271292 | gene-RPL23AP23 | **RPL23AP23** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271294 | gene-RPL23AP34 | **RPL23AP34** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271295 | gene-RPL23AP35 | **RPL23AP35** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271298 | gene-RPL27AP3 | **RPL27AP3** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271300 | gene-RPL27AP5 | **RPL27AP5** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271301 | gene-RPL27AP7 | **RPL27AP7** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271302 | gene-RPL27P12 | **RPL27P12** | ribosomal protein L27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271305 | gene-RPL30P13 | **RPL30P13** | ribosomal protein L30 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271308 | gene-RPL34P20 | **RPL34P20** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271309 | gene-RPL34P24 | **RPL34P24** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.271 |
| 100271311 | gene-RPL35AP9 | **RPL35AP9** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271314 | gene-RPL35AP11 | **RPL35AP11** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271319 | gene-RPL35AP17 | **RPL35AP17** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271322 | gene-RPL35AP19 | **RPL35AP19** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271323 | gene-RPL36AP13 | **RPL36AP13** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271325 | gene-RPL36AP15 | **RPL36AP15** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.214 |
| 100271326 | gene-RPL36AP17 | **RPL36AP17** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271327 | gene-RPL36AP16 | **RPL36AP16** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.151 |
| 100271328 | gene-RPL36AP18 | **RPL36AP18** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271330 | gene-RPL36AP19 | **RPL36AP19** | ribosomal protein L36a p | pseudogene | 0 | 1 | 1 | 2 | 1.506 |
| 100271331 | gene-RPL36AP25 | **RPL36AP25** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271332 | gene-RPL36AP21 | **RPL36AP21** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 100271343 | gene-UBA52P8 | **UBA52P8** | ubiquitin A-52 residue rit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271346 | gene-RPLP1P10 | **RPLP1P10** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271348 | gene-RPLP2P5 | **RPLP2P5** | ribosomal protein lateral | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271349 | gene-RPS10P18 | **RPS10P18** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271350 | gene-RPS10P19 | **RPS10P19** | ribosomal protein S10 ps | pseudogene | 23 | 28 | 24 | 29 | 1.215 |
| 100271352 | gene-RPS12P16 | **RPS12P16** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271353 | gene-RPS12P17 | **RPS12P17** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271357 | gene-RPS15AP21 | **RPS15AP21** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271358 | gene-RPS15AP16 | **RPS15AP16** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271360 | gene-RPS15AP18 | **RPS15AP18** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271361 | gene-RPS15P7 | **RPS15P7** | ribosomal protein S15 ps | pseudogene | 0 | 0 | 1 | 1 | 1.145 |
| 100271364 | gene-RPS18P13 | **RPS18P13** | ribosomal protein S18 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271371 | gene-RPS24P18 | **RPS24P18** | ribosomal protein S24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271372 | gene-RPS25P10 | **RPS25P10** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271373 | gene-RPS25P9 | **RPS25P9** | ribosomal protein S25 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271374 | gene-RPS27AP5 | **RPS27AP5** | ribosomal protein S27a p | pseudogene | 0 | 1 | 1 | 2 | 1.487 |
| 100271386 | gene-RPS4XP20 | **RPS4XP20** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271388 | gene-RPL17P49 | **RPL17P49** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271389 | gene-RPL21P81 | **RPL21P81** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271390 | gene-RPL21P132 | **RPL21P132** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271391 | gene-RPL21P133 | **RPL21P133** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271392 | gene-RPL31P63 | **RPL31P63** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 100271394 | gene-RPL36P18 | **RPL36P18** | ribosomal protein L36 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271396 | gene-RPL39P24 | **RPL39P24** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271398 | gene-RPL7AP44 | **RPL7AP44** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271399 | gene-RPL7AP71 | **RPL7AP71** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271400 | gene-RPS26P56 | **RPS26P56** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271404 | gene-RPL12P26 | **RPL12P26** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271405 | gene-RPL12P30 | **RPL12P30** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271406 | gene-RPL12P31 | **RPL12P31** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271411 | gene-RPL17P37 | **RPL17P37** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271416 | gene-RPL17P48 | **RPL17P48** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271417 | gene-RPL17P38 | **RPL17P38** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 0.694 |
| 100271420 | gene-RPL18AP14 | **RPL18AP14** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271422 | gene-RPL21P89 | **RPL21P89** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271423 | gene-RPL21P90 | **RPL21P90** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271424 | gene-RPL21P91 | **RPL21P91** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271425 | gene-RPL21P94 | **RPL21P94** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.124 |
| 100271427 | gene-RPL21P95 | **RPL21P95** | ribosomal protein L21 ps | pseudogene | 1 | 1 | 2 | 2 | 0.807 |
| 100271428 | gene-RPL21P96 | **RPL21P96** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271429 | gene-RPL21P99 | **RPL21P99** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271430 | gene-RPL21P100 | **RPL21P100** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 100271431 | gene-RPL21P101 | **RPL21P101** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271432 | gene-RPL21P102 | **RPL21P102** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271433 | gene-RPL21P103 | **RPL21P103** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271434 | gene-RPL21P108 | **RPL21P108** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271435 | gene-RPL21P104 | **RPL21P104** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271437 | gene-RPL21P109 | **RPL21P109** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271438 | gene-RPL21P110 | **RPL21P110** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271439 | gene-RPL21P111 | **RPL21P111** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271441 | gene-RPL21P114 | **RPL21P114** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271443 | gene-RPL21P115 | **RPL21P115** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271444 | gene-RPL21P116 | **RPL21P116** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100271447 | gene-RPL21P122 | **RPL21P122** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271448 | gene-RPL21P123 | **RPL21P123** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271449 | gene-RPL21P126 | **RPL21P126** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271450 | gene-RPL21P124 | **RPL21P124** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.132 |
| 100271451 | gene-RPL21P129 | **RPL21P129** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271452 | gene-RPL21P127 | **RPL21P127** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271453 | gene-RPL21P130 | **RPL21P130** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271455 | gene-RPL22P21 | **RPL22P21** | ribosomal protein L22 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271456 | gene-RPL23AP27 | **RPL23AP27** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271459 | gene-RPL23AP30 | **RPL23AP30** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271460 | gene-RPL23AP31 | **RPL23AP31** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271464 | gene-RPL23AP51 | **RPL23AP51** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271465 | gene-RPL23AP52 | **RPL23AP52** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271467 | gene-RPL23AP55 | **RPL23AP55** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100271469 | gene-RPL26P31 | **RPL26P31** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271471 | gene-RPL26P27 | **RPL26P27** | ribosomal protein L26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271472 | gene-RPL29P22 | **RPL29P22** | ribosomal protein L29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271475 | gene-RPL31P51 | **RPL31P51** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271476 | gene-RPL31P52 | **RPL31P52** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271478 | gene-RPL31P56 | **RPL31P56** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271479 | gene-RPL31P46 | **RPL31P46** | ribosomal protein L31 ps | pseudogene | 1 | 1 | 2 | 2 | 1.338 |
| 100271480 | gene-RPL31P59 | **RPL31P59** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271481 | gene-RPL31P47 | **RPL31P47** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271485 | gene-RPL31P58 | **RPL31P58** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271487 | gene-RPL31P61 | **RPL31P61** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271489 | gene-RPL32P24 | **RPL32P24** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100271490 | gene-RPL32P25 | **RPL32P25** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271491 | gene-RPL32P26 | **RPL32P26** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271493 | gene-RPL32P33 | **RPL32P33** | ribosomal protein L32 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271499 | gene-RPL34P23 | **RPL34P23** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271501 | gene-RPL34P25 | **RPL34P25** | ribosomal protein L34 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271506 | gene-RPL35AP21 | **RPL35AP21** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271508 | gene-RPL36AP24 | **RPL36AP24** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.330 |
| 100271509 | gene-RPL36AP28 | **RPL36AP28** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271510 | gene-RPL36AP29 | **RPL36AP29** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271517 | gene-RPL39P25 | **RPL39P25** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271518 | gene-RPL39P26 | **RPL39P26** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271519 | gene-RPL39P30 | **RPL39P30** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271521 | gene-RPL39P33 | **RPL39P33** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271522 | gene-RPL39P29 | **RPL39P29** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271523 | gene-RPL39P34 | **RPL39P34** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 0.835 |
| 100271524 | gene-RPL39P35 | **RPL39P35** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100271526 | gene-RPL39P36 | **RPL39P36** | ribosomal protein L39 ps | pseudogene | 1 | 0 | 2 | 1 | 0.615 |
| 100271528 | gene-RPL39P37 | **RPL39P37** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271529 | gene-RPL39P38 | **RPL39P38** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271530 | gene-RPL39P39 | **RPL39P39** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271531 | gene-RPL39P40 | **RPL39P40** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271532 | gene-RPL39P41 | **RPL39P41** | ribosomal protein L39 ps | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 100271535 | gene-RPL7AP55 | **RPL7AP55** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271536 | gene-RPL7AP56 | **RPL7AP56** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271537 | gene-RPL7AP57 | **RPL7AP57** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271538 | gene-RPL7AP60 | **RPL7AP60** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.062 |
| 100271546 | gene-RPS10P25 | **RPS10P25** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271547 | gene-RPS10P20 | **RPS10P20** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271548 | gene-RPS10P26 | **RPS10P26** | ribosomal protein S10 ps | pseudogene | 1 | 2 | 2 | 3 | 1.361 |
| 100271550 | gene-RPS12P21 | **RPS12P21** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100271552 | gene-RPS12P27 | **RPS12P27** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271556 | gene-RPS12P32 | **RPS12P32** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.741 |
| 100271557 | gene-RPS15AP22 | **RPS15AP22** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271565 | gene-RPS20P34 | **RPS20P34** | ribosomal protein S20 ps | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100271566 | gene-RPS20P35 | **RPS20P35** | ribosomal protein S20 ps | pseudogene | 0 | 1 | 1 | 2 | 1.247 |
| 100271569 | gene-RPS26P44 | **RPS26P44** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271571 | gene-RPS26P43 | **RPS26P43** | ribosomal protein S26 ps | pseudogene | 1 | 0 | 2 | 1 | 0.599 |
| 100271572 | gene-RPS26P46 | **RPS26P46** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271576 | gene-RPS26P51 | **RPS26P51** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271577 | gene-RPS26P52 | **RPS26P52** | ribosomal protein S26 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271581 | gene-RPS27P20 | **RPS27P20** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271584 | gene-RPS27P25 | **RPS27P25** | ribosomal protein S27 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271593 | gene-RPS3AP37 | **RPS3AP37** | RPS3A pseudogene 37 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271594 | gene-RPS3AP38 | **RPS3AP38** | RPS3A pseudogene 38 | pseudogene | 0 | 0 | 1 | 1 | 0.961 |
| 100271595 | gene-RPS3AP41 | **RPS3AP41** | RPS3A pseudogene 41 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271597 | gene-RPS3AP42 | **RPS3AP42** | RPS3A pseudogene 42 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271600 | gene-RPS3AP51 | **RPS3AP51** | RPS3A pseudogene 51 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271603 | gene-RPL13AP24 | **RPL13AP24** | ribosomal protein L13a p | pseudogene | 0 | 0 | 1 | 1 | 1.080 |
| 100271604 | gene-RPL18AP12 | **RPL18AP12** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271605 | gene-RPL27AP8 | **RPL27AP8** | ribosomal protein L27a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271611 | gene-RPL36AP53 | **RPL36AP53** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271613 | gene-RPS15AP27 | **RPS15AP27** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271616 | gene-RPL23AP58 | **RPL23AP58** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271618 | gene-RPL23AP59 | **RPL23AP59** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271621 | gene-RPL23AP72 | **RPL23AP72** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271622 | gene-RPL23AP67 | **RPL23AP67** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271623 | gene-RPL23AP69 | **RPL23AP69** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271624 | gene-RPL23AP78 | **RPL23AP78** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271626 | gene-RPL23AP79 | **RPL23AP79** | ribosomal protein L23a p | pseudogene | 8 | 7 | 9 | 8 | 0.950 |
| 100271631 | gene-RPL35AP24 | **RPL35AP24** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271632 | gene-RPL35AP32 | **RPL35AP32** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271633 | gene-RPL35AP23 | **RPL35AP23** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271634 | gene-RPL35AP33 | **RPL35AP33** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271635 | gene-RPL35AP27 | **RPL35AP27** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271636 | gene-RPL35AP35 | **RPL35AP35** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271637 | gene-RPL35AP28 | **RPL35AP28** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271640 | gene-RPL35AP31 | **RPL35AP31** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271641 | gene-RPL35AP34 | **RPL35AP34** | ribosomal protein L35a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271643 | gene-RPL36AP39 | **RPL36AP39** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271645 | gene-RPL36AP42 | **RPL36AP42** | ribosomal protein L36a p | pseudogene | 19 | 20 | 20 | 21 | 1.033 |
| 100271646 | gene-RPL36AP43 | **RPL36AP43** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 0.817 |
| 100271648 | gene-RPL36AP50 | **RPL36AP50** | ribosomal protein L36a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271650 | gene-RPS15AP36 | **RPS15AP36** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.298 |
| 100271651 | gene-RPS15AP37 | **RPS15AP37** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271652 | gene-RPS15AP31 | **RPS15AP31** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271654 | gene-RPS15AP33 | **RPS15AP33** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271655 | gene-RPS15AP38 | **RPS15AP38** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271656 | gene-LOC10027165 | **LOC100271656** | N-acetylneuraminic acid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271700 | gene-NONOP2 | **NONOP2** | non-POU domain contair | pseudogene | 1 | 0 | 2 | 1 | 0.926 |
| 100271702 | NR_036546 | **LINC00940** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100271703 | gene-HAUS1P3 | **HAUS1P3** | HAUS augmin like compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271715 | NM_001145451,NM | **ARHGEF33** | Rho guanine nucleotide | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100271717 | gene-LOC10027171 | **LOC100271717** | natural cytotoxicity trigge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271722 | NR_027036 | **LINC00899** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100271835 | NR_027145 | **LIMS3-LOC440895** | LIMS3-LOC440895 readt | lncRNA | 2 | 2 | 3 | 3 | 1.031 |
| 100271836 | NR_027155 | **SMG1P3** | SMG1 pseudogene 3 | transcribed_pseu | 15 | 12 | 16 | 13 | 0.818 |
| 100271842 | gene-LOC10027184 | **LOC100271842** | phosphatidylinositol 4-kir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271846 | NM_001191055 | **ERVV-2** | endogenous retrovirus gi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100271849 | NM_001145785,NM | **MEF2B** | myocyte enhancer factor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100271870 | gene-RBM22P4 | **RBM22P4** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271871 | gene-RBM22P2 | **RBM22P2** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 0.887 |
| 100271873 | NR_047511,NR_047 | **AIRN** | antisense of IGF2R non- | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100271874 | NR_027347 | **ZNRF2P2** | zinc and ring finger 2 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100271884 | gene-SMARCE1P1 | **SMARCE1P1** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271893 | gene-SAMM50P1 | **SAMM50P1** | SAMM50 sorting and ass | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271907 | gene-LOC10027190 | **LOC100271907** | myotubularin related pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271918 | gene-MKI67P1 | **MKI67P1** | marker of proliferation Ki | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100271927 | NM_001277335,NM | **RASA4B** | RAS p21 protein activato | protein_coding | 10 | 12 | 11 | 13 | 1.184 |
| 100272146 | gene-NFE2L3P2 | **NFE2L3P2** | nuclear factor, erythroid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100272147 | NM_001018024 | **CMC4** | C-X9-C motif containing | protein_coding | 21 | 23 | 22 | 24 | 1.070 |
| 100272205 | gene-TATDN2P2 | **TATDN2P2** | TatD DNase domain con | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100272217 | NR_027440 | **LOC100272217** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.169 |
| 100272220 | gene-RPAP2P1 | **RPAP2P1** | RNA polymerase II assoc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100272228 | NR_027456 | **LINC00894** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.875 |
| 100286746 | gene-LOC10028674 | **LOC100286746** | GABA type A receptor as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286844 | NR_027499,NR_027 | **BCDIN3D-AS1** | BCDIN3D antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100286906 | NR_147174 | **LOC100286906** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100286922 | NR_037694,NR_037 | **LOC100286922** | DnaJ heat shock protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100286925 | NR_147620 | **PPM1F-AS1** | PPM1F antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.130 |
| 100286929 | gene-NMD3P2 | **NMD3P2** | NMD3 ribosome export a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286938 | NR_026668 | **VPS13A-AS1** | VPS13A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100286946 | gene-LOC10028694 | **LOC100286946** | ribosomal protein S3A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286948 | gene-APOOP1 | **APOOP1** | apolipoprotein O pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286954 | gene-HSPE1P12 | **HSPE1P12** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100286965 | gene-CBX3P8 | **CBX3P8** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286979 | NR_037931 | **ANAPC1P1** | anaphase promoting con | transcribed_pseu | 1 | 1 | 2 | 2 | 0.820 |
| 100286986 | XM_024451296 | **LOC100286986** | atrophin-domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100286992 | gene-LOC10028699 | **LOC100286992** | signal recognition particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100286997 | gene-LOC10028699 | **LOC100286997** | ribosomal protein L31 ps | pseudogene | 0 | 0 | 1 | 1 | 1.300 |
| 100287010 | NR_037885 | **LOC100287010** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287014 | gene-LOC10028701 | **LOC100287014** | LysM domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287015 | NR_040040 | **LOC100287015** | uncharacterized LOC100 | lncRNA | 4 | 4 | 5 | 5 | 1.133 |
| 100287016 | gene-DSTNP3 | **DSTNP3** | DSTN pseudogene 3 | pseudogene | 1 | 0 | 2 | 1 | 0.606 |
| 100287028 | gene-LOC10028702 | **LOC100287028** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287029 | NR_045117 | **DDX11L10** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.030 |
| 100287033 | gene-LOC10028703 | **LOC100287033** | TSC22 domain family me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287036 | NR_168302 | **LOC100287036** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287042 | NR_036520 | **LOC100287042** | uncharacterized LOC100 | lncRNA | 3 | 3 | 4 | 4 | 1.045 |
| 100287045 | NM_001358418 | **FAM90A26** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287046 | gene-GUSBP13 | **GUSBP13** | GUSB pseudogene 13 | pseudogene | 4 | 3 | 5 | 4 | 0.953 |
| 100287049 | NR_147618 | **LOC100287049** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.668 |
| 100287063 | gene-GEMIN2P2 | **GEMIN2P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287066 | gene-DEFB131D | **DEFB131D** | defensin beta 131D (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287072 | NR_073509 | **LOC100287072** | ribosomal protein S6 kina | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100287074 | gene-ACTR1AP1 | **ACTR1AP1** | ACTR1A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287082 | NR_120598 | **GACAT2** | gastric cancer associatec | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287083 | NR_036687 | **DEFT1P2** | defensin theta 1, pseudc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100287085 | gene-OCIAD2P1 | **OCIAD2P1** | OCIA domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287098 | NR_109770 | **TONSL-AS1** | TONSL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 100287102 | NR_046018 | **DDX11L1** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.139 |
| 100287114 | NR_034026 | **LINC00421** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287144 | NM_001256852 | **USP17L10** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287148 | gene-LOC10028714 | **LOC100287148** | peroxiredoxin 6 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287171 | NM_001378090,NM | **WASHC1** | WASH complex subunit . | protein_coding | 5 | 6 | 6 | 7 | 1.067 |
| 100287173 | gene-UBE2V1P5 | **UBE2V1P5** | ubiquitin conjugating en: | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287175 | NR_149003 | **LOC100287175** | uncharacterized LOC100 | lncRNA | 1 | 0 | 2 | 1 | 0.529 |
| 100287177 | NR_130728,NR_13( | **EML2-AS1** | EML2 antisense RNA 1 | lncRNA | 7 | 6 | 8 | 7 | 0.913 |
| 100287178 | NM_001256854 | **USP17L11** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287183 | gene-NUTF2P8 | **NUTF2P8** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287189 | gene-LOC10028718 | **LOC100287189** | SEC61 translocon subur | pseudogene | 0 | 0 | 1 | 1 | 1.087 |
| 100287191 | gene-HNRNPA1P47 | **HNRNPA1P47** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287193 | gene-ISCA2P1 | **ISCA2P1** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287205 | NM_001256853 | **USP17L12** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287215 | gene-UBL5P2 | **UBL5P2** | ubiquitin like 5 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 0.912 |
| 100287216 | NR_029193 | **SH3RF3-AS1** | SH3RF3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287225 | NR_040074,NR_04( | **LINC01630** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287226 | NM_001242680 | **ZNF729** | zinc finger protein 729 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287227 | NR_027954 | **TIPARP-AS1** | TIPARP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 100287229 | gene-BRD7P4 | **BRD7P4** | bromodomain containing | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 100287238 | NM_001256855 | **USP17L13** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287243 | gene-LOC10028724 | **LOC100287243** | . | pseudogene | 0 | 0 | 1 | 1 | 1.122 |
| 100287261 | gene-CSPG4P3Y | **CSPG4P3Y** | CSPG4 pseudogene 3 Y | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287266 | gene-HNRNPA1P42 | **HNRNPA1P42** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100287270 | gene-USP17L14P | **USP17L14P** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287272 | gene-USP8P1 | **USP8P1** | USP8 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.059 |
| 100287275 | gene-PCOTHP1 | **PCOTHP1** | Pro-X-Gly collagen triple | pseudogene | 0 | 0 | 1 | 1 | 0.944 |
| 100287284 | NM_001146221,XM_ | **MANSC4** | MANSC domain containi | protein_coding | 0 | 0 | 1 | 1 | 0.940 |
| 100287290 | XR_001740503,XR_ | **LOC100287290** | cytokine receptor CRL2, | misc_RNA | 1 | 0 | 2 | 1 | 0.890 |
| 100287314 | NR_040245 | **LINC00941** | long intergenic non-prote | lncRNA | 2 | 3 | 3 | 4 | 1.189 |
| 100287325 | gene-KRT8P37 | **KRT8P37** | keratin 8 pseudogene 37 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287327 | NM_001256857 | **USP17L17** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287329 | NR_149045 | **LOC100287329** | uncharacterized LOC100 | lncRNA | 3 | 3 | 4 | 4 | 0.971 |
| 100287357 | gene-LOC10028735 | **LOC100287357** | CXADR, Ig-like cell adhe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287361 | gene-PPIAP64 | **PPIAP64** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287362 | NR_147121 | **PRSS46P** | serine protease 46, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100287364 | NM_001256859 | **USP17L18** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287366 | NR_145458 | **OSTM1-AS1** | OSTM1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287369 | gene-HSPE1P4 | **HSPE1P4** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.073 |
| 100287387 | NR_157851 | **LOC100287387** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287399 | NM_001277303,NR_ | **POTEB2** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287402 | gene-LOC10028740 | **LOC100287402** | uncharacterized LOC100 | pseudogene | 1 | 1 | 2 | 2 | 1.007 |
| 100287404 | NM_001256860 | **USP17L19** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287419 | gene-CDK8P2 | **CDK8P2** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 100287425 | gene-LOC10028742 | **LOC100287425** | short transmembrane mi | pseudogene | 0 | 0 | 1 | 1 | 1.233 |
| 100287427 | gene-LOC10028742 | **LOC100287427** | chromosome 18 open rei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287430 | gene-LOC10028743 | **LOC100287430** | ribosomal protein S5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.129 |
| 100287441 | NM_001256861 | **USP17L20** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287453 | gene-LOC10028745 | **LOC100287453** | neurotrophin 4 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287463 | gene-BOLA3P2 | **BOLA3P2** | bolA family member 3 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287467 | NR_148944 | **LOC100287467** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287478 | NM_001256862 | **USP17L21** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287482 | NM_001195243,XM | **SMKR1** | small lysine rich protein : | protein_coding | 3 | 2 | 4 | 3 | 0.782 |
| 100287485 | gene-LOC10028748 | **LOC100287485** | glycine-N-acyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287489 | gene-LOC10028748 | **LOC100287489** | neurotrophin 4 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287497 | NR_136590,NR_13( | **LOC100287497** | septin 7 pseudogene | transcribed_pseu | 4 | 4 | 5 | 5 | 0.997 |
| 100287502 | gene-CSPG4P4Y | **CSPG4P4Y** | CSPG4 pseudogene 4 Y | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287505 | gene-BRWD1P2 | **BRWD1P2** | bromodomain and WD re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287512 | gene-RPS3AP53 | **RPS3AP53** | RPS3A pseudogene 53 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287513 | NM_001256863 | **USP17L22** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287520 | NM_001355566 | **GLYATL1B** | glycine-N-acyltransferas | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287544 | gene-LOC10028754 | **LOC100287544** | s-adenosylmethionine sy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287551 | gene-HSPA8P8 | **HSPA8P8** | heat shock protein family | pseudogene | 3 | 4 | 4 | 5 | 1.138 |
| 100287559 | NR_040107 | **ADPGK-AS1** | ADPGK antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.139 |
| 100287569 | NR_027345,NR_02 | **LINC00173** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287592 | NR_104653 | **LINC02106** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287596 | NR_051986 | **DDX11L5** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.985 |
| 100287603 | gene-SSXP10 | **SSXP10** | SSX family pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287613 | gene-LOC10028761 | **LOC100287613** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287614 | gene-LOC10028761 | **LOC100287614** | ribosomal protein S10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287616 | NR_040066,NR_04( | **LOXL1-AS1** | LOXL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 100287625 | gene-SUPT4H1P2 | **SUPT4H1P2** | SPT4 homolog, DSIF elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287630 | gene-PSAT1P4 | **PSAT1P4** | phosphoserine aminotra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287632 | NR_037662 | **SELENOKP3** | selenoprotein K pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100287635 | gene-KRT18P62 | **KRT18P62** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287639 | NR_077228 | **MTHFD2P1** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100287647 | gene-PCMTD1P2 | **PCMTD1P2** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287653 | gene-LOC10028765 | **LOC100287653** | PDGFA associated prote | pseudogene | 0 | 0 | 1 | 1 | 0.898 |
| 100287682 | gene-EXTL2P1 | **EXTL2P1** | exostosin like glycosyltra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287704 | NR_028348 | **LOC100287704** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287708 | gene-CCDC58P2 | **CCDC58P2** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287718 | NM_001162435,XM_ | **ANKRD66** | ankyrin repeat domain 6( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100287722 | NR_037864,NR_12 | **AP4B1-AS1** | AP4B1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.802 |
| 100287725 | gene-GAPDHP76 | **GAPDHP76** | glyceraldehyde-3-phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287728 | NR_103770 | **SMIM10L2B-AS1** | SMIM10L2B antisense R | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287755 | gene-ATP5MC1P4 | **ATP5MC1P4** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.039 |
| 100287757 | gene-LOC10028775 | **LOC100287757** | SRA stem-loop interactin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287765 | NR_038988,NR_14( | **LINC00630** | long intergenic non-prote | lncRNA | 3 | 2 | 4 | 3 | 0.753 |
| 100287778 | gene-ELOCP20 | **ELOCP20** | elongin C pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287785 | gene-LINC00266-2P | **LINC00266-2P** | long intergenic non-prote | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 100287792 | NR_040021 | **LOC100287792** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287808 | NR_149004 | **LOC100287808** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 100287814 | NR_034037 | **LINC00582** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287817 | gene-NDUFS5P4 | **NDUFS5P4** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287822 | gene-SETP10 | **SETP10** | SET pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287825 | gene-LOC10028782 | **LOC100287825** | golgin A8 family member | pseudogene | 0 | 0 | 1 | 1 | 1.141 |
| 100287834 | NR_028349 | **LOC100287834** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287837 | NR_147696 | **LOC100287837** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287845 | gene-GOLGA6L16P | **GOLGA6L16P** | golgin A6 family like 16, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287846 | NR_037168 | **LOC100287846** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287852 | gene-LOC10028785 | **LOC100287852** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100287856 | gene-LOC10028785 | **LOC100287856** | cornichon family AMPA r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287868 | gene-NUTF2P7 | **NUTF2P7** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.139 |
| 100287879 | NR_033978 | **LINC00994** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287880 | gene-NDUFA4P2 | **NDUFA4P2** | NDUFA4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287887 | gene-RPL13AP25 | **RPL13AP25** | ribosomal protein L13a p | pseudogene | 5 | 8 | 6 | 9 | 1.461 |
| 100287895 | gene-NARS1P2 | **NARS1P2** | asparaginyl-tRNA synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287896 | NM_001319240,XM | **LOC100287896** | uncharacterized LOC100 | protein_coding | 2 | 2 | 3 | 3 | 1.045 |
| 100287898 | NM_001242672,XM | **TTC34** | tetratricopeptide repeat c | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 100287902 | NR_034040 | **LGALS8-AS1** | LGALS8 antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.749 |
| 100287908 | gene-ZNF519P2 | **ZNF519P2** | zinc finger protein 519 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287912 | gene-ANKRD11P1 | **ANKRD11P1** | ANKRD11 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287932 | NM_006327,NR_07 | **TIMM23** | translocase of inner mito | protein_coding | 137 | 126 | 138 | 127 | 0.924 |
| 100287944 | NR_040246 | **LOC100287944** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287948 | NR_046249 | **LINC01699** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100287951 | gene-LOC10028795 | **LOC100287951** | dynein light chain Tctex-t | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287960 | gene-HIGD1AP10 | **HIGD1AP10** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287965 | gene-TERF1P6 | **TERF1P6** | TERF1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100287966 | gene-LOC10028796 | **LOC100287966** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288001 | gene-LOC10028800 | **LOC100288001** | pre-mRNA processing fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288008 | gene-PRR13P4 | **PRR13P4** | proline rich 13 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288016 | gene-LOC10028801 | **LOC100288016** | serine/threonine-protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288031 | gene-BRK1P1 | **BRK1P1** | BRICK1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288035 | gene-NDUFA5P3 | **NDUFA5P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288038 | gene-HNRNPA1P28 | **HNRNPA1P28** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 100288042 | gene-ZNF519P3 | **ZNF519P3** | zinc finger protein 519 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288069 | NR_168328 | **LOC100288069** | uncharacterized LOC100 | lncRNA | 5 | 5 | 6 | 6 | 1.043 |
| 100288072 | NM_001365288,XM | **SDR42E2** | short chain dehydrogena | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288073 | gene-LOC10028807 | **LOC100288073** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.033 |
| 100288077 | NR_038390 | **WTAPP1** | Wilms tumor 1 associate | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288079 | NR_038424 | **GS1-279B7.1** | microtubule associated p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288093 | gene-LOC10028809 | **LOC100288093** | nuclear RNA export factc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288097 | gene-LOC10028809 | **LOC100288097** | BAG cochaperone 4 pse | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100288111 | gene-BOLA3P1 | **BOLA3P1** | bolA family member 3 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288122 | NR_040031 | **LDLRAD4-AS1** | LDLRAD4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288123 | NR_152847 | **LOC100288123** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288125 | gene-NME2P3 | **NME2P3** | NME2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288130 | gene-MTCL1P1 | **MTCL1P1** | MTCL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288142 | NM_001278267 | **NBPF20** | NBPF member 20 | protein_coding | 1 | 1 | 2 | 2 | 0.946 |
| 100288146 | gene-LOC10028814 | **LOC100288146** | nucleoporin Nup43-like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288149 | gene-NDUFS5P3 | **NDUFS5P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288151 | gene-SREK1IP1P1 | **SREK1IP1P1** | SREK1IP1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288152 | NR_125375 | **SLC9A3-AS1** | SLC9A3 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 1.049 |
| 100288162 | NR_103772 | **LOC100288162** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288165 | gene-HMGN2P15 | **HMGN2P15** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.951 |
| 100288170 | gene-UBE2V1P15 | **UBE2V1P15** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288172 | gene-LOC10028817 | **LOC100288172** | WEE1 homolog (S. pom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288175 | NR_148960 | **LOC100288175** | uncharacterized LOC100 | lncRNA | 3 | 2 | 4 | 3 | 0.987 |
| 100288179 | gene-TSEN15P1 | **TSEN15P1** | tRNA splicing endonucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288181 | NR_038925 | **LNCOC1** | lncRNA associated with | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288185 | gene-PPIAP1 | **PPIAP1** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288198 | NR_040671 | **HMGN3-AS1** | HMGN3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288203 | NR_146103,NR_14 | **LOC100288203** | WASP homolog associat | transcribed_pseu | 10 | 10 | 11 | 11 | 1.009 |
| 100288208 | NR_144452 | **LOC100288208** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288211 | gene-LOC10028821 | **LOC100288211** | PPPDE peptidase domai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288222 | gene-ATP5MC1P8 | **ATP5MC1P8** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288235 | gene-HSPE1P10 | **HSPE1P10** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288241 | gene-LOC10028824 | **LOC100288241** | protein (peptidylprolyl cis | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288248 | gene-ZNHIT1P1 | **ZNHIT1P1** | zinc finger HIT-type cont | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288250 | gene-ISCA1P5 | **ISCA1P5** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288252 | gene-RPL10P1 | **RPL10P1** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100288254 | NR_130933 | **LOC100288254** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288283 | gene-HNRNPA1P61 | **HNRNPA1P61** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.095 |
| 100288287 | NM_001164434 | **KRTAP22-2** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288298 | gene-GCSHP2 | **GCSHP2** | glycine cleavage system | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288307 | gene-ATP5MDP1 | **ATP5MDP1** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.243 |
| 100288319 | gene-AK3P5 | **AK3P5** | adenylate kinase 3 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288323 | NM_001164435 | **KRTAP21-3** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288332 | NM_001277325,NM | **NPIPA5** | nuclear pore complex int | protein_coding | 12 | 15 | 13 | 16 | 1.232 |
| 100288339 | gene-NDUFA5P6 | **NDUFA5P6** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288343 | gene-SLC25A14P1 | **SLC25A14P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.144 |
| 100288346 | NR_034101 | **NCAM1-AS1** | NCAM1 antisense RNA1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288365 | gene-LOC10028836 | **LOC100288365** | activating transcription fa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288378 | gene-LRRC34P1 | **LRRC34P1** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288379 | gene-LOC10028837 | **LOC100288379** | ribosomal protein S7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288380 | NR_027470 | **ULK4P2** | ULK4 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.045 |
| 100288385 | gene-LOC10028838 | **LOC100288385** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288405 | gene-SFTPA3P | **SFTPA3P** | surfactant protein A3, ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288413 | NM_001242690,NM | **ERVMER34-1** | endogenous retrovirus gi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288420 | gene-NDUFB4P3 | **NDUFB4P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288425 | gene-EIF1P2 | **EIF1P2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288428 | NR_033378 | **LMCD1-AS1** | LMCD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288432 | NR_038974 | **IL10RB-DT** | IL10RB divergent transcr | lncRNA | 5 | 0 | 6 | 1 | 0.263 |
| 100288436 | gene-SLC4A1APP1 | **SLC4A1APP1** | solute carrier family 4 me | pseudogene | 0 | 0 | 1 | 1 | 1.176 |
| 100288437 | gene-LOC10028843 | **LOC100288437** | COP1, E3 ubiquitin ligas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288451 | gene-RBBP4P5 | **RBBP4P5** | RBBP4 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.104 |
| 100288463 | gene-CUL1P1 | **CUL1P1** | cullin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288483 | gene-HSBP1P2 | **HSBP1P2** | heat shock factor binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288485 | NM_001190489 | **MTRNR2L7** | MT-RNR2 like 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288486 | NR_034090,NR_05 | **DDX11L9** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.038 |
| 100288506 | gene-PNPT1P1 | **PNPT1P1** | polyribonucleotide nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288510 | gene-LOC10028851 | **LOC100288510** | TSR1, 20S rRNA accum | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288513 | gene-TUBB3P1 | **TUBB3P1** | tubulin beta 3 class III ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288517 | gene-ISCA1P2 | **ISCA1P2** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288520 | NM_001256894 | **USP17L15** | ubiquitin specific peptida | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288524 | NR_164665 | **FOXL3-OT1** | FOXL3 overlapping trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288527 | NR_003594 | **REXO1L2P** | REXO1 like 2, pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288533 | gene-RPL14P6 | **RPL14P6** | RPL14 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288542 | gene-LOC10028854 | **LOC100288542** | chromosome 14 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288543 | gene-FOLR3P1 | **FOLR3P1** | folate receptor 3 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288558 | gene-LOC10028855 | **LOC100288558** | chromosome 4 open rea | pseudogene | 0 | 0 | 1 | 1 | 0.930 |
| 100288570 | NR_037627 | **LOC100288570** | glycosylphosphatidylinos | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288580 | gene-ACTR3P1 | **ACTR3P1** | ACTR3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288596 | gene-SNRPCP1 | **SNRPCP1** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288613 | gene-UBE2NP1 | **UBE2NP1** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288615 | NR_036650 | **WHAMMP1** | WAS protein homolog as | transcribed_pseu | 13 | 12 | 14 | 13 | 0.991 |
| 100288628 | gene-LOC10028862 | **LOC100288628** | SUMO specific peptidase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288637 | NR_038253,NR_03 | **LOC100288637** | OTU deubiquitinase 7A p | transcribed_pseu | 14 | 13 | 15 | 14 | 0.915 |
| 100288654 | gene-NDUFB4P1 | **NDUFB4P1** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288659 | gene-ZNF317P1 | **ZNF317P1** | zinc finger protein 317 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288661 | gene-SUB1P4 | **SUB1P4** | SUB1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288666 | gene-LOC10028866 | **LOC100288666** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288683 | gene-LOC10028868 | **LOC100288683** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288687 | NM_001293798,NM | **DUX4** | double homeobox 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288690 | gene-FAM21FP | **FAM21FP** | . | pseudogene | 0 | 0 | 1 | 1 | 1.052 |
| 100288691 | gene-HMGN2P8 | **HMGN2P8** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 100288695 | NM_001205288,NM | **LIMS4** | LIM zinc finger domain c | protein_coding | 4 | 4 | 5 | 5 | 1.067 |
| 100288702 | gene-ARL6IP1P1 | **ARL6IP1P1** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288703 | gene-LOC10028870 | **LOC100288703** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288711 | gene-DUX4L9 | **DUX4L9** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288712 | gene-LOC10028871 | **LOC100288712** | S100 calcium binding pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288713 | gene-PMS2P10 | **PMS2P10** | PMS1 homolog 2, misma | pseudogene | 1 | 1 | 2 | 2 | 0.868 |
| 100288724 | gene-LOC10028872 | **LOC100288724** | transient receptor potent | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288726 | gene-HSPE1P20 | **HSPE1P20** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288728 | NR_147912 | **LOC100288728** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288730 | NR_029383 | **PAN3-AS1** | PAN3 antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.651 |
| 100288739 | gene-SPCS2P3 | **SPCS2P3** | signal peptidase comple | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100288742 | gene-H2BC2P | **H2BC2P** | H2B clustered histone 2, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288748 | NR_034034 | **LOC100288748** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288757 | gene-SUMO2P4 | **SUMO2P4** | SUMO2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288772 | gene-CCT7P2 | **CCT7P2** | chaperonin containing T( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288774 | gene-AGGF1P10 | **AGGF1P10** | angiogenic factor with G- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288778 | NR_130745 | **WASH8P** | WAS protein family hom( | transcribed_pseu | 15 | 15 | 16 | 16 | 0.966 |
| 100288797 | NM_001167670,NM | **TMEM239** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288798 | NR_125377,NR_125 | **LOC100288798** | uncharacterized LOC100 | lncRNA | 1 | 2 | 2 | 3 | 1.818 |
| 100288801 | NM_001124759,XM_ | **FRG2C** | FSHD region gene 2 fam | protein_coding | 0 | 0 | 1 | 1 | 0.970 |
| 100288802 | gene-RPL23AP93 | **RPL23AP93** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288803 | gene-LOC10028880 | **LOC100288803** | F-box and WD repeat do | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288805 | NR_103556 | **HYDIN2** | HYDIN axonemal central | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288806 | gene-CDC27P8 | **CDC27P8** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288814 | NM_001195081 | **CLDN34** | claudin 34 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100288825 | gene-TTC39CP1 | **TTC39CP1** | tetratricopeptide repeat c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288831 | NR_103443 | **SRGAP3-AS3** | SRGAP3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288842 | NR_027442 | **B3GNT10** | UDP-GlcNAc:betaGal be | transcribed_pseu | 7 | 5 | 8 | 6 | 0.785 |
| 100288846 | NR_038935 | **LOC100288846** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.260 |
| 100288866 | NR_103773 | **LOC100288866** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100288868 | gene-KRT18P63 | **KRT18P63** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288911 | NR_037631 | **CRIM1-DT** | CRIM1 divergent transcri | lncRNA | 0 | 1 | 1 | 2 | 1.221 |
| 100288914 | gene-LOC10028891 | **LOC100288914** | mannosidase beta like p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288935 | gene-LOC10028893 | **LOC100288935** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288948 | gene-BRD7P1 | **BRD7P1** | bromodomain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288960 | NR_160552 | **PRSS43P** | serine protease 43, pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288962 | gene-LOC10028896 | **LOC100288962** | S-phase kinase associat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288974 | NR_033857 | **BMS1P21** | BMS1 pseudogene 21 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100288978 | gene-LOC10028897 | **LOC100288978** | COP9 signalosome subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100288979 | gene-DCAF13P2 | **DCAF13P2** | DDB1 and CUL4 associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289017 | NR_024346 | **MOXD2P** | monooxygenase DBH lik | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100289019 | NR_033374 | **SLC25A25-AS1** | SLC25A25 antisense RN | lncRNA | 3 | 3 | 4 | 4 | 1.033 |
| 100289027 | gene-CDK2AP2P1 | **CDK2AP2P1** | cyclin dependent kinase | pseudogene | 1 | 1 | 2 | 2 | 1.025 |
| 100289034 | gene-RPL23AP88 | **RPL23AP88** | ribosomal protein L23a p | pseudogene | 1 | 1 | 2 | 2 | 1.021 |
| 100289047 | gene-DNAJB6P2 | **DNAJB6P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289060 | gene-LOC10028906 | **LOC100289060** | G protein subunit gamma | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 100289061 | XR_001738226,XR_ | **ADAMTSL4-AS2** | ADAMTSL4 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289085 | gene-LOC10028908 | **LOC100289085** | fem-1 homolog A pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289087 | NM_001282469,NM | **TSPY10** | testis specific protein Y-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100289092 | NR_046287,NR_046 | **ATP2A1-AS1** | ATP2A1 antisense RNA 1 | lncRNA | 24 | 23 | 25 | 24 | 0.952 |
| 100289095 | gene-BCL2L12P1 | **BCL2L12P1** | BCL2 like 12 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289097 | NR_132315 | **FRG1CP** | FSHD region gene 1 fam | transcribed_pseu | 1 | 1 | 2 | 2 | 0.856 |
| 100289098 | NR_134570,NR_134 | **GS1-124K5.4** | uncharacterized LOC100 | lncRNA | 3 | 4 | 4 | 5 | 1.230 |
| 100289102 | gene-EIF4A1P8 | **EIF4A1P8** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289118 | gene-LOC10028911 | **LOC100289118** | mitochondrial carrier 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289124 | NR_103714 | **FAM27E2** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 100289131 | gene-COX6CP6 | **COX6CP6** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289133 | gene-KRT8P32 | **KRT8P32** | keratin 8 pseudogene 32 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289137 | NR_047651 | **FAM95C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289143 | gene-LOC10028914 | **LOC100289143** | NOP10 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289150 | NR_046300 | **FAM197Y5** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289158 | gene-HMGB3P13 | **HMGB3P13** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289170 | gene-COX20P2 | **COX20P2** | COX20 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.186 |
| 100289178 | NR_040077 | **GNG12-AS1** | GNG12, DIRAS3 and WI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289185 | gene-TERF1P8 | **TERF1P8** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289186 | gene-SDHDP1 | **SDHDP1** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289187 | NM_001195541,NM | **TMEM225B** | transmembrane protein 2 | protein_coding | 4 | 3 | 5 | 4 | 0.718 |
| 100289188 | NR_145470 | **FAM197Y4** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289191 | gene-HMGN3P1 | **HMGN3P1** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289194 | gene-LOC10028919 | **LOC100289194** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289196 | gene-LOC10028919 | **LOC100289196** | short transmembrane mi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289211 | NR_038423 | **LINC00624** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289230 | NR_036530 | **LOC100289230** | uncharacterized LOC100 | lncRNA | 1 | 2 | 2 | 3 | 1.201 |
| 100289237 | gene-CEP164P1 | **CEP164P1** | centrosomal protein 164 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289238 | gene-LOC10028923 | **LOC100289238** | zinc finger RNA binding p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289244 | gene-PPIAP79 | **PPIAP79** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289255 | NR_036581 | **TMEM238L** | transmembrane protein 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289259 | gene-ZFYVE9P1 | **ZFYVE9P1** | zinc finger FYVE-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289264 | gene-RPL7P60 | **RPL7P60** | ribosomal protein L7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289274 | NR_132117 | **DNAJC3-DT** | DNAJC3 divergent transc | lncRNA | 4 | 3 | 5 | 4 | 0.847 |
| 100289279 | XM_011545672,XM_ | **CNTNAP3C** | contactin associated prot | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 100289280 | gene-CUBNP2 | **CUBNP2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289286 | gene-HNRNPA1P58 | **HNRNPA1P58** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289300 | gene-HIGD1AP5 | **HIGD1AP5** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289319 | gene-KRT8P43 | **KRT8P43** | keratin 8 pseudogene 43 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289320 | gene-LOC10028932 | **LOC100289320** | NME/NM23 nucleoside d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289333 | NR_104179 | **LOC100289333** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.275 |
| 100289341 | NR_027447 | **MAN1B1-DT** | MAN1B1 divergent transc | lncRNA | 2 | 2 | 3 | 3 | 1.019 |
| 100289350 | gene-LOC10028935 | **LOC100289350** | immunoglobulin superfa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289351 | gene-LOC10028935 | **LOC100289351** | ribosomal protein S12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289361 | NR_034032 | **LOC100289361** | uncharacterized LOC100 | lncRNA | 2 | 2 | 3 | 3 | 1.072 |
| 100289373 | NR_036531,NR_036 | **UBAC2-AS1** | UBAC2 antisense RNA 1 | lncRNA | 2 | 4 | 3 | 5 | 1.499 |
| 100289381 | gene-LOC10028938 | **LOC100289381** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289388 | NR_102280,NR_102 | **KCTD21-AS1** | KCTD21 antisense RNA | lncRNA | 3 | 4 | 4 | 5 | 1.104 |
| 100289410 | NR_034002 | **MCF2L-AS1** | MCF2L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289414 | gene-PHBP9 | **PHBP9** | prohibitin pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 0.905 |
| 100289442 | gene-LOC10028944 | **LOC100289442** | PHD finger protein 5A ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289448 | gene-REXO1L12P | **REXO1L12P** | REXO1 like 12, pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289462 | NM_001205266 | **DEFB4B** | defensin beta 4B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100289470 | gene-LOC10028947 | **LOC100289470** | chromosome 5 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289473 | NR_037142 | **LOC100289473** | cytoskeleton associated p | transcribed_pseu | 6 | 4 | 7 | 5 | 0.750 |
| 100289475 | gene-LDHBP1 | **LDHBP1** | lactate dehydrogenase B | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 100289489 | gene-MICOS10P2 | **MICOS10P2** | MICOS10 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289495 | NR_040022 | **LOC100289495** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 100289500 | gene-LOC10028950 | **LOC100289500** | zinc finger AN1-type con | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289509 | NR_045118 | **KCNIP2-AS1** | KCNIP2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.087 |
| 100289511 | NR_029378 | **LOC100289511** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.795 |
| 100289561 | NM_001242713,NM | **LOC100289561** | uncharacterized LOC100 | protein_coding | 9 | 4 | 10 | 5 | 0.536 |
| 100289569 | gene-LOC10028956 | **LOC100289569** | zinc finger protein 736 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289574 | NR_109773 | **HERC2P4** | hect domain and RLD 2 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100289579 | gene-NDUFA5P9 | **NDUFA5P9** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289580 | NR_103774 | **LOC100289580** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 100289581 | gene-DUX4L13 | **DUX4L13** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289605 | gene-HIGD1AP15 | **HIGD1AP15** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289623 | gene-UBE2V1P14 | **UBE2V1P14** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289635 | NM_001164715,NM | **ZNF605** | zinc finger protein 605 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100289640 | gene-PPATP1 | **PPATP1** | phosphoribosyl pyrophos | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 100289643 | gene-HSPA8P16 | **HSPA8P16** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289644 | gene-PRR13P7 | **PRR13P7** | proline rich 13 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289650 | NR_036584 | **PSG8-AS1** | PSG8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100289656 | NR_036475 | **LOC100289656** | Dexi homolog (mouse) p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100289663 | gene-STMN1P2 | **STMN1P2** | stathmin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100289673 | NR_033175 | **LINC01848** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.061 |
| 100289678 | NM_001195220,NR_ | **ZNF783** | zinc finger family membe | protein_coding | 11 | 11 | 12 | 12 | 0.982 |
| 100289682 | gene-HMGN2P13 | **HMGN2P13** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100291105 | NR_149006 | **RBM38-AS1** | RBM38 antisense RNA 1 | lncRNA | 5 | 5 | 6 | 6 | 1.045 |
| 100291628 | gene-LOC10029162 | **LOC100291628** | penta-EF-hand domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100292290 | gene-HSPE1P8 | **HSPE1P8** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100292680 | NR_028415 | **LINC00942** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100292922 | gene-LOC10029292 | **LOC100292922** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100293516 | NM_001204818,NM | **ZNF587B** | zinc finger protein 587B | protein_coding | 13 | 12 | 14 | 13 | 0.928 |
| 100293612 | XR_110033 | **LOC100293612** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100294145 | NR_037177,NR_037 | **LOC100294145** | uncharacterized LOC100 | lncRNA | 38 | 34 | 39 | 35 | 0.903 |
| 100294362 | NR_029376 | **RNF213-AS1** | RNF213 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100294713 | gene-LOC10029471 | **LOC100294713** | IQ motif containing F1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100294720 | NR_027994 | **NHEG1** | neuroblastoma highly ex | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100301521 | gene-LOC10030152 | **LOC100301521** | chromosome 15 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100301990 | gene-LOC10030199 | **LOC100301990** | zinc finger protein 610 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100302090 | gene-DDX11L8 | **DDX11L8** | DEAD/H-box helicase 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100302111 | NR_036049,rna-MIR | **MIR1184-1** | microRNA 1184-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302112 | NR_031697,rna-MIR | **MIR1284** | microRNA 1284 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302113 | NR_031604,rna-MIR | **MIR1200** | microRNA 1200 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302114 | NR_031709,rna-MIR | **MIR513C** | microRNA 513c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302115 | NR_031567,rna-MIR | **MIR1468** | microRNA 1468 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302116 | NR_031668,rna-MIR | **MIR1265** | microRNA 1265 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302117 | NR_031564,rna-MIR | **MIR320B1** | microRNA 320b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302118 | NR_031618,rna-MIR | **MIR1286** | microRNA 1286 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302119 | NR_031719,rna-MIR | **MIR1538** | hsa-miR-1538 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302121 | NR_031682,rna-MIR | **MIR1276** | microRNA 1276 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302122 | NR_031594,rna-MIR | **MIR1183** | microRNA 1183 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302123 | NR_031681,rna-MIR | **MIR1275** | microRNA 1275 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302124 | NR_031698,rna-MIR | **MIR1288** | microRNA 1288 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302125 | NR_031620,rna-MIR | **MIR1289-1** | microRNA 1289-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302126 | NR_031717,rna-MIR | **MIR1471** | microRNA 1471 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302127 | NR_031716,rna-MIR | **MIR1470** | hsa-miR-1470 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302128 | NR_031632,rna-MIR | **MIR1302-3** | microRNA 1302-3 | miRNA | 0 | 0 | 1 | 1 | 1.209 |
| 100302129 | NR_031736,rna-MIR | **MIR1915** | microRNA 1915 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302130 | NR_031633,rna-MIR | **MIR1302-4** | microRNA 1302-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302131 | NR_031684,rna-MIR | **MIR302F** | microRNA 302f | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302132 | NR_031593,rna-MIR | **MIR1182** | microRNA 1182 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302133 | NR_031619,rna-MIR | **MIR1287** | microRNA 1287 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302134 | NR_031621,rna-MIR | **MIR1289-2** | microRNA 1289-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302135 | NR_031565,rna-MIR | **MIR320C1** | microRNA 320c-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302136 | NR_031700,rna-MIR | **MIR1252** | microRNA 1252 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302137 | NR_031735,rna-MIR | **MIR1914** | microRNA 1914 | miRNA | 0 | 0 | 1 | 1 | 0.985 |
| 100302138 | NR_031699,rna-MIR | **MIR1292** | microRNA 1292 | miRNA | 7 | 10 | 8 | 11 | 1.426 |
| 100302139 | NR_031718,rna-MIR | **MIR1537** | hsa-miR-1537-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302140 | NR_031635,rna-MIR | **MIR1302-6** | microRNA 1302-6 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302141 | NR_031734,rna-MIR | **MIR1913** | microRNA 1913 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302142 | NR_031648,rna-MIR | **MIR1246** | microRNA 1246 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302143 | NR_031650,rna-MIR | **MIR1248** | microRNA 1248 | miRNA | 0 | 3 | 1 | 4 | 2.680 |
| 100302144 | NR_031733,rna-MIR | **MIR1912** | microRNA 1912 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302145 | NR_031649,rna-MIR | **MIR1247** | microRNA 1247 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302146 | NR_031634,rna-MIR | **MIR1302-5** | microRNA 1302-5 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302147 | NR_031636,rna-MIR | **MIR1302-7** | microRNA 1302-7 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302148 | NR_031665,rna-MIR | **MIR1263** | microRNA 1263 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302149 | NR_031651,rna-MIR | **MIR1249** | microRNA 1249 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302150 | NR_031566,rna-MIR | **MIR1296** | microRNA 1296 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302152 | NR_031666,rna-MIR | **MIR548N** | microRNA 548n | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302153 | NR_031578,rna-MIR | **MIR1298** | microRNA 1298 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302155 | NR_031657,rna-MIR | **MIR1256** | microRNA 1256 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302156 | NR_031598,rna-MIR | **MIR1229** | hsa-miR-1229-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302157 | NR_031575,rna-MIR | **MIR1185-1** | microRNA 1185-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302158 | NR_031599,rna-MIR | **MIR1231** | microRNA 1231 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302159 | NR_031644,rna-MIR | **MIR548F3** | microRNA 548f-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302160 | NR_036050,rna-MIR | **MIR1233-1** | hsa-miR-1233-3p | . | 0 | 0 | 1 | 1 | 0.948 |
| 100302161 | NR_031610,rna-MIR | **MIR1205** | microRNA 1205 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302163 | NR_031691,rna-MIR | **MIR1278** | microRNA 1278 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302164 | NR_031579,rna-MIR | **MIR2113** | microRNA 2113 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302166 | NR_031711,rna-MIR | **MIR1322** | microRNA 1322 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302167 | NR_031629,rna-MIR | **MIR1299** | hsa-miR-1299 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302168 | NR_031658,rna-MIR | **MIR1257** | microRNA 1257 | miRNA | 0 | 0 | 1 | 1 | 1.456 |
| 100302169 | NR_031725,rna-MIR | **MIR320D2** | microRNA 320d-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302170 | NR_031611,rna-MIR | **MIR1206** | microRNA 1206 | miRNA | 0 | 0 | 1 | 1 | 0.670 |
| 100302171 | NR_031710,rna-MIR | **MIR1321** | microRNA 1321 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302172 | NR_031659,rna-MIR | **MIR1258** | microRNA 1258 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302174 | NR_031707,rna-MIR | **MIR1307** | microRNA 1307 | miRNA | 0 | 0 | 1 | 1 | 1.046 |
| 100302175 | NR_031612,rna-MIR | **MIR1207** | microRNA 1207 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302177 | NR_031673,rna-MIR | **MIR1269A** | microRNA 1269a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302178 | NR_031627,rna-MIR | **MIR1295A** | microRNA 1295a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302179 | NR_036053,rna-MIR | **MIR1270** | microRNA 1270 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302181 | NR_031626,rna-MIR | **MIR1294** | microRNA 1294 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302182 | NR_031692,rna-MIR | **MIR1279** | microRNA 1279 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302183 | NR_031726,rna-MIR | **MIR1825** | microRNA 1825 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100302184 | NR_031674,rna-MIR | **MIR1272** | microRNA 1272 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302185 | NR_031609,rna-MIR | **MIR1204** | microRNA 1204 | miRNA | 5 | 6 | 6 | 7 | 1.106 |
| 100302186 | NR_031689,rna-MIR | **MIR548I3** | microRNA 548i-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302187 | NR_031628,rna-MIR | **MIR1297** | microRNA 1297 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302188 | NR_031641,rna-MIR | **MIR1243** | microRNA 1243 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302190 | NR_031740,rna-MIR | **MIR1976** | microRNA 1976 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302191 | NR_031690,rna-MIR | **MIR548I4** | microRNA 548i-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302192 | NR_031642,rna-MIR | **MIR548F1** | microRNA 548f-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302193 | NR_031656,rna-MIR | **MIR1255A** | microRNA 1255a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302195 | NR_031724,rna-MIR | **MIR320C2** | microRNA 320c-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302196 | NR_031600,rna-MIR | **MIR1234** | microRNA 1234 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302197 | NR_031706,rna-MIR | **MIR1306** | microRNA 1306 | miRNA | 0 | 0 | 1 | 1 | 1.012 |
| 100302201 | NR_031597,rna-MIR | **MIR1228** | hsa-miR-1228-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302202 | NR_031670,rna-MIR | **MIR1266** | microRNA 1266 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302203 | NR_031569,rna-MIR | **MIR1271** | microRNA 1271 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302204 | NR_031687,rna-MIR | **MIR548I1** | microRNA 548i-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302205 | NR_031696,rna-MIR | **MIR1283-2** | microRNA 1283-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302208 | NR_031654,rna-MIR | **MIR1253** | microRNA 1253 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302209 | NR_031571,rna-MIR | **MIR1185-2** | microRNA 1185-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302210 | NR_031730,rna-MIR | **MIR1909** | microRNA 1909 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100302211 | NR_031607,rna-MIR | **MIR1203** | microRNA 1203 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302212 | NR_031714,rna-MIR | **MIR1324** | microRNA 1324 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302213 | NR_031592,rna-MIR | **MIR1181** | microRNA 1181 | miRNA | 0 | 0 | 1 | 1 | 1.018 |
| 100302214 | NR_031685,rna-MIR | **MIR1277** | microRNA 1277 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302217 | NR_031728,rna-MIR | **MIR1827** | microRNA 1827 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302218 | NR_031616,rna-MIR | **MIR1285-1** | microRNA 1285-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302219 | NR_031647,rna-MIR | **MIR1245A** | microRNA 1245a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302220 | NR_031625,rna-MIR | **MIR1293** | microRNA 1293 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302221 | NR_031623,rna-MIR | **MIR1291** | microRNA 1291 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 100302222 | NR_031732,rna-MIR | **MIR1911** | microRNA 1911 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302223 | NR_031637,rna-MIR | **MIR1302-8** | microRNA 1302-8 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302224 | NR_031747,rna-MIR | **MIR2110** | microRNA 2110 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302225 | NR_031745,rna-MIR | **MIR2053** | microRNA 2053 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302226 | NR_031603,rna-MIR | **MIR1238** | hsa-miR-1238-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302227 | NR_031631,rna-MIR | **MIR1302-1** | microRNA 1302-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302228 | NR_031663,rna-MIR | **MIR1261** | microRNA 1261 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302229 | NR_031652,rna-MIR | **MIR1250** | microRNA 1250 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302232 | NR_031595,rna-MIR | **MIR1226** | hsa-miR-1226-5p | . | 1 | 1 | 2 | 2 | 1.031 |
| 100302233 | NR_031672,rna-MIR | **MIR1268A** | microRNA 1268a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302234 | NR_031705,rna-MIR | **MIR664A** | microRNA 664a | miRNA | 0 | 0 | 1 | 1 | 1.116 |
| 100302235 | NR_031590,rna-MIR | **MIR1179** | microRNA 1179 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302236 | NR_031661,rna-MIR | **MIR1260A** | microRNA 1260a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302237 | NR_031694,rna-MIR | **MIR1281** | microRNA 1281 | miRNA | 9 | 7 | 10 | 8 | 0.764 |
| 100302238 | NR_031721,rna-MIR | **MIR103B1** | hsa-miR-103b | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302239 | NR_031646,rna-MIR | **MIR548F5** | microRNA 548f-5 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302240 | NR_031639,rna-MIR | **MIR1304** | microRNA 1304 | miRNA | 10 | 7 | 11 | 8 | 0.749 |
| 100302242 | NR_031601,rna-MIR | **MIR1236** | hsa-miR-1236-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302243 | NR_036054,rna-MIR | **MIR1972-1** | microRNA 1972-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302246 | NR_031570,rna-MIR | **MIR1301** | microRNA 1301 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302250 | NR_031713,rna-MIR | **MIR1197** | microRNA 1197 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302251 | NR_031563,rna-MIR | **MIR1264** | microRNA 1264 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302254 | NR_031695,rna-MIR | **MIR1282** | microRNA 1282 | miRNA | 0 | 0 | 1 | 1 | 1.058 |
| 100302255 | NR_031568,rna-MIR | **MIR1323** | microRNA 1323 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302256 | NR_031591,rna-MIR | **MIR1180** | microRNA 1180 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302257 | NR_031720,rna-MIR | **MIR1539** | microRNA 1539 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302258 | NR_031715,rna-MIR | **MIR1469** | hsa-miR-1469 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302259 | NR_031606,rna-MIR | **MIR1202** | microRNA 1202 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302260 | NR_031744,rna-MIR | **MIR2052** | microRNA 2052 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302261 | NR_031731,rna-MIR | **MIR1910** | microRNA 1910 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100302263 | NR_031729,rna-MIF | **MIR1908** | microRNA 1908 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302265 | NR_031573,rna-MIF | **MIR1283-1** | microRNA 1283-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302267 | NR_031746,rna-MIF | **MIR2054** | hsa-miR-2054 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100302268 | NR_031617,rna-MIF | **MIR1285-2** | microRNA 1285-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302270 | NR_031640,rna-MIF | **MIR1305** | microRNA 1305 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302274 | NR_031589,rna-MIF | **MIR1178** | microRNA 1178 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302275 | NR_031630,rna-MIF | **MIR548L** | microRNA 548l | miRNA | 1 | 0 | 2 | 1 | 0.605 |
| 100302276 | NR_031622,rna-MIF | **MIR1290** | microRNA 1290 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302277 | NR_031688,rna-MIF | **MIR548I2** | microRNA 548i-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302278 | NR_036051,rna-MIF | **MIR1302-2** | microRNA 1302-2 | miRNA | 0 | 0 | 1 | 1 | 0.928 |
| 100302279 | NR_031664,rna-MIF | **MIR1262** | microRNA 1262 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302280 | NR_031602,rna-MIF | **MIR1237** | microRNA 1237 | miRNA | 0 | 0 | 1 | 1 | 0.986 |
| 100302281 | NR_031613,rna-MIF | **MIR1208** | microRNA 1208 | miRNA | 0 | 0 | 1 | 1 | 0.793 |
| 100302282 | NR_031722,rna-MIF | **MIR103B2** | microRNA 103b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302283 | NR_031596,rna-MIF | **MIR1227** | hsa-miR-1227-3p | . | 0 | 0 | 1 | 1 | 0.998 |
| 100302284 | NR_031638,rna-MIF | **MIR1303** | microRNA 1303 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302285 | NR_036052,rna-MIF | **MIR1244-1** | microRNA 1244-1 | miRNA | 0 | 0 | 1 | 1 | 0.994 |
| 100302286 | NR_031671,rna-MIF | **MIR1267** | microRNA 1267 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302287 | NR_031679,rna-MIF | **MIR548H3** | microRNA 548h-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302288 | NR_031686,rna-MIF | **MIR548P** | microRNA 548p | miRNA | 0 | 0 | 1 | 1 | 0.946 |
| 100302289 | NR_031653,rna-MIF | **MIR1251** | microRNA 1251 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302290 | NR_031737,rna-MIF | **MIR1973** | microRNA 1973 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302291 | gene-LOC10030229 | **LOC100302291** | forty-two-three domain c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100302401 | NR_027982 | **RASAL2-AS1** | RASAL2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302522 | NR_146773 | **PTCSC1** | papillary thyroid carcinor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302526 | NR_028084 | **FAM41AY2** | family with sequence sir | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302640 | NR_028303 | **LINC00882** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302650 | NR_028308 | **BABAM2-AS1** | BABAM2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 100302652 | NM_001164165 | **GPR75-ASB3** | GPR75-ASB3 readthrou | protein_coding | 0 | 1 | 1 | 2 | 1.715 |
| 100302666 | gene-CSPG4P13 | **CSPG4P13** | chondroitin sulfate prote | pseudogene | 0 | 0 | 1 | 1 | 1.051 |
| 100302689 | gene-GPN3P1 | **GPN3P1** | GPN-loop GTPase 3 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100302691 | NR_033927 | **LINC00184** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302692 | NR_028379 | **FTX** | FTX transcript, XIST regu | lncRNA | 1 | 1 | 2 | 2 | 1.024 |
| 100302736 | NM_001164468,NM | **TMED7-TICAM2** | TMED7-TICAM2 readthrc | protein_coding | 8 | 8 | 9 | 9 | 0.995 |
| 100302739 | NR_028370 | **PCNA-AS1** | PCNA antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.181 |
| 100302740 | NR_028371 | **FAS-AS1** | FAS antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.983 |
| 100302741 | gene-RNU6-15P | **RNU6-15P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 0.968 |
| 100302742 | gene-RNU6-42P | **RNU6-42P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 100302743 | NR_028374 | **SNORA80B** | small nucleolar RNA, H/A | snoRNA | 3 | 2 | 4 | 3 | 0.686 |
| 100302746 | NR_028375 | **NCRUPAR** | non-protein coding RNA, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100302751 | gene-NCLP1 | **NCLP1** | nucleolin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100303453 | NR_028393,NR_028 | **TSNAX-DISC1** | TSNAX-DISC1 readthrou | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 100303491 | NR_040248 | **ZEB2-AS1** | ZEB2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100303728 | NR_028443,NR_134 | **SLC25A5-AS1** | SLC25A5 antisense RNA | lncRNA | 2 | 2 | 3 | 3 | 1.086 |
| 100303743 | gene-LSM3P5 | **LSM3P5** | LSM3 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100303745 | gene-LSM3P2 | **LSM3P2** | LSM3 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100303748 | gene-LSM3P1 | **LSM3P1** | LSM3 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100303749 | NR_028474 | **LOC100303749** | LSM3 homolog, U6 smal | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100303755 | NM_001164811 | **PET117** | PET117 cytochrome c ox | protein_coding | 16 | 15 | 17 | 16 | 0.925 |
| 100306951 | NR_028514 | **PITPNA-AS1** | PITPNA antisense RNA 1 | lncRNA | 7 | 5 | 8 | 6 | 0.758 |
| 100306975 | NR_036507 | **NDUFAF4P1** | NADH:ubiquinone oxidor | transcribed_pseu | 0 | 0 | 1 | 1 | 1.022 |
| 100307126 | gene-CHMP4BP1 | **CHMP4BP1** | charged multivesicular b | pseudogene | 1 | 1 | 2 | 2 | 0.921 |
| 100309464 | NR_029385,NR_146 | **OTX2-AS1** | OTX2 antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100310756 | NR_147504 | **LOC100310756** | uncharacterized LOC100 | lncRNA | 5 | 6 | 6 | 7 | 1.168 |
| 100310782 | gene-LOC10031078 | **LOC100310782** | mitochondrial translation | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310812 | NM_001166339,XM_ | **SPDYE2B** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100310838 | gene-VDAC1P3 | **VDAC1P3** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.044 |
| 100310839 | gene-VDAC1P7 | **VDAC1P7** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 100310840 | gene-VDAC1P8 | **VDAC1P8** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 100310841 | gene-VDAC1P11 | **VDAC1P11** | voltage dependent anion | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310846 | NM_001271700 | **ANKRD61** | ankyrin repeat domain 6 | protein_coding | 0 | 0 | 1 | 1 | 0.920 |
| 100310848 | gene-SNRPCP4 | **SNRPCP4** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310849 | gene-SNRPCP19 | **SNRPCP19** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310850 | gene-SNRPCP11 | **SNRPCP11** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310851 | gene-SNRPCP8 | **SNRPCP8** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310852 | gene-SNRPCP7 | **SNRPCP7** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310853 | gene-SNRPCP9 | **SNRPCP9** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310854 | gene-SNRPCP12 | **SNRPCP12** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310855 | gene-SNRPCP14 | **SNRPCP14** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310856 | gene-SNRPCP6 | **SNRPCP6** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100310857 | gene-SNRPCP15 | **SNRPCP15** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100313532 | gene-MFSD1P1 | **MFSD1P1** | major facilitator superfan | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100313769 | NR_031574,rna-MIF | **MIR320B2** | microRNA 320b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313770 | NR_031624,rna-MIF | **MIR548K** | microRNA 548k | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313771 | NR_031643,rna-MIF | **MIR548F2** | microRNA 548f-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313772 | NR_031667,rna-MIF | **MIR548M** | microRNA 548m | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313773 | NR_031678,rna-MIF | **MIR548H2** | microRNA 548h-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313774 | NR_031683,rna-MIF | **MIR302E** | microRNA 302e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313777 | NR_031577,rna-MIF | **MIR670** | microRNA 670 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313778 | NR_031582,rna-MIF | **MIR759** | microRNA 759 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313779 | NR_031751,rna-MIF | **MIR2117** | microRNA 2117 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313780 | NR_031755,rna-MIF | **MIR2278** | microRNA 2278 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313781 | NR_031757,rna-MIF | **MIR718** | microRNA 718 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313806 | NR_031701,rna-MIF | **MIR1255B1** | microRNA 1255b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313822 | NR_031708,rna-MIF | **MIR513B** | microRNA 513b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313824 | NR_031608,rna-MIF | **MIR663B** | microRNA 663b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313829 | NR_031669,rna-MIF | **MIR548O** | microRNA 548o | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313830 | NR_031677,rna-MIF | **MIR548H1** | microRNA 548h-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313835 | NR_031702,rna-MIF | **MIR1255B2** | microRNA 1255b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313837 | NR_031576,rna-MIF | **MIR762** | microRNA 762 | miRNA | 0 | 0 | 1 | 1 | 0.994 |
| 100313838 | NR_031581,rna-MIF | **MIR764** | microRNA 764 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313839 | NR_031748,rna-MIF | **MIR2114** | microRNA 2114 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313840 | NR_031749,rna-MIF | **MIR2115** | microRNA 2115 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313841 | NR_031752,rna-MIF | **MIR548Q** | microRNA 548q | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313842 | NR_031753,rna-MIF | **MIR2276** | microRNA 2276 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313843 | NR_031756,rna-MIF | **MIR711** | microRNA 711 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313884 | NR_031680,rna-MIF | **MIR548H4** | microRNA 548h-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313886 | NR_031750,rna-MIF | **MIR2116** | microRNA 2116 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313887 | NR_031754,rna-MIF | **MIR2277** | microRNA 2277 | miRNA | 0 | 0 | 1 | 1 | 1.009 |
| 100313892 | NR_031580,rna-MIF | **MIR761** | microRNA 761 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313895 | NR_031645,rna-MIF | **MIR548F4** | microRNA 548f-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313896 | NR_031723,rna-MIF | **MIR320D1** | microRNA 320d-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313914 | NR_031615,rna-MIF | **MIR548J** | microRNA 548j | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313921 | NR_031614,rna-MIF | **MIR548E** | microRNA 548e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313923 | NR_031572,rna-MIF | **MIR449C** | microRNA 449c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313938 | NR_031662,rna-MIF | **MIR548G** | microRNA 548g | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100313942 | gene-LOC10031394 | **LOC100313942** | transmembrane protein 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100313962 | gene-RFKP1 | **RFKP1** | riboflavin kinase pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100313968 | gene-LOC10031396 | **LOC100313968** | riboflavin kinase pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.007 |
| 100316867 | gene-ARF4P5 | **ARF4P5** | ADP ribosylation factor 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100316868 | NR_037843 | **HOTTIP** | HOXA distal transcript ar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100316904 | NM_001168682,NM | **SAP25** | Sin3A associated protein | protein_coding | 2 | 2 | 3 | 3 | 1.035 |
| 100327036 | gene-PPP2R2DP1 | **PPP2R2DP1** | protein phosphatase 2 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100328982 | gene-LOC10032898 | **LOC100328982** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 100329108 | gene-GCSHP5 | **GCSHP5** | glycine cleavage system | pseudogene | 11 | 11 | 12 | 12 | 0.970 |
| 100329109 | NR_033248 | **GCSHP3** | glycine cleavage system | transcribed_pseu | 0 | 0 | 1 | 1 | 1.006 |
| 100329135 | NM_001195576,NM | **TRPC5OS** | TRPC5 opposite strand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100335030 | NR_033267 | **LOC100335030** | FGFR1 oncogene partne | transcribed_pseu | 0 | 0 | 1 | 1 | 1.009 |
| 100337591 | NR_033309 | **SNORA70F** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100337616 | NR_033311 | **CSN1S2BP** | casein alpha s2 like B, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100359394 | NR_037842,NR_037 | **LINC00102** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100359396 | gene-HSPD1P11 | **HSPD1P11** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100359397 | gene-HSPD1P18 | **HSPD1P18** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379132 | NR_033335 | **SNORA70G** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379141 | NR_033337 | **SNORA70D** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379142 | gene-NCLP2 | **NCLP2** | nucleolin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100379174 | NR_037841,NR_07 | **MACROD2-AS1** | MACROD2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379220 | NR_033768 | **TMED11P** | transmembrane p24 traff | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100379224 | NR_033341 | **LOC100379224** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 100379236 | gene-LOC10037923 | **LOC100379236** | patatin-like phospholipas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379249 | NR_033346 | **BOK-AS1** | BOK antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379250 | NR_033347 | **SNORA70E** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379251 | NR_037806 | **NPPA-AS1** | NPPA antisense RNA 1 | antisense_RNA | 1 | 1 | 2 | 2 | 0.932 |
| 100379287 | gene-RNY4P6 | **RNY4P6** | RNY4 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379288 | gene-RNY4P11 | **RNY4P11** | RNY4 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379290 | gene-LOC10037929 | **LOC100379290** | transmembrane and coil | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379295 | gene-RNY4P8 | **RNY4P8** | RNY4 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379296 | gene-RNY4P13 | **RNY4P13** | RNY4 pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379297 | gene-RNY4P4 | **RNY4P4** | RNY4 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379298 | gene-RNY4P18 | **RNY4P18** | RNY4 pseudogene 18 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379299 | gene-RNY4P5 | **RNY4P5** | RNY4 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379300 | gene-RNY4P9 | **RNY4P9** | RNY4 pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379345 | NR_038975 | **MIR181A2HG** | MIR181A2 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379378 | gene-RNY4P20 | **RNY4P20** | RNY4 pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379571 | NR_037803 | **BACE1-AS** | BACE1 antisense RNA | antisense_RNA | 3 | 2 | 4 | 3 | 0.826 |
| 100379592 | gene-RNY4P10 | **RNY4P10** | RNY4 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100379623 | gene-LARP1P1 | **LARP1P1** | LARP1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.051 |
| 100379661 | NR_033368 | **GRIK1-AS2** | GRIK1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100379667 | gene-NEK2P2 | **NEK2P2** | NEK2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100381202 | gene-NEK2P4 | **NEK2P4** | NEK2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100381215 | gene-DYNLT3P2 | **DYNLT3P2** | dynein light chain Tctex- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100381270 | NM_001174108 | **ZBED6** | zinc finger BED-type con | protein_coding | 7 | 4 | 8 | 5 | 0.683 |
| 100384885 | gene-RRAS2P2 | **RRAS2P2** | RRAS2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418701 | gene-LOC10041870 | **LOC100418701** | talin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418706 | gene-FXNP2 | **FXNP2** | frataxin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.269 |
| 100418707 | gene-LOC10041870 | **LOC100418707** | septin 7 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418712 | gene-LOC10041871 | **LOC100418712** | KIAA1328 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418716 | gene-LOC10041871 | **LOC100418716** | RAB11 binding and LisH | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418720 | gene-SEPTIN7P6 | **SEPTIN7P6** | septin 7 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418724 | gene-CCNJP2 | **CCNJP2** | cyclin J pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418728 | gene-KRT8P40 | **KRT8P40** | keratin 8 pseudogene 40 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418730 | gene-LOC10041873 | **LOC100418730** | T-box 20 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418735 | gene-SEPTIN7P8 | **SEPTIN7P8** | septin 7 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418736 | gene-GOLGA5P1 | **GOLGA5P1** | golgin A5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.974 |
| 100418737 | gene-KRT8P33 | **KRT8P33** | keratin 8 pseudogene 33 | pseudogene | 0 | 0 | 1 | 1 | 0.923 |
| 100418740 | gene-PPP1R26P1 | **PPP1R26P1** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418744 | gene-KRT8P46 | **KRT8P46** | keratin 8 pseudogene 46 | pseudogene | 0 | 0 | 1 | 1 | 1.134 |
| 100418747 | gene-KRT8P35 | **KRT8P35** | keratin 8 pseudogene 35 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418748 | gene-KRT8P36 | **KRT8P36** | keratin 8 pseudogene 36 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418750 | gene-KRT8P42 | **KRT8P42** | keratin 8 pseudogene 42 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418751 | gene-GOLGA2P1 | **GOLGA2P1** | GOLGA2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418754 | gene-CLUHP6 | **CLUHP6** | clustered mitochondria h | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418763 | gene-CCNT2P1 | **CCNT2P1** | cyclin T2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418769 | gene-KRT18P52 | **KRT18P52** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 100418770 | gene-KRT18P26 | **KRT18P26** | keratin 18 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418774 | gene-PHBP4 | **PHBP4** | prohibitin pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418781 | gene-KRT8P39 | **KRT8P39** | keratin 8 pseudogene 39 | pseudogene | 0 | 0 | 1 | 1 | 1.068 |
| 100418792 | gene-KRT18P54 | **KRT18P54** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418799 | gene-KRT8P38 | **KRT8P38** | keratin 8 pseudogene 38 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418804 | gene-PHBP8 | **PHBP8** | prohibitin pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418811 | gene-KRT8P34 | **KRT8P34** | keratin 8 pseudogene 34 | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 100418815 | gene-PHBP10 | **PHBP10** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418820 | gene-PHBP12 | **PHBP12** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418829 | gene-KRT18P60 | **KRT18P60** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418837 | gene-PHBP2 | **PHBP2** | prohibitin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 100418843 | gene-PHBP13 | **PHBP13** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418848 | gene-LOC10041884 | **LOC100418848** | calponin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418862 | gene-SPECC1P1 | **SPECC1P1** | SPECC1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418865 | gene-KRT18P61 | **KRT18P61** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418868 | gene-LOC10041886 | **LOC100418868** | calponin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418877 | gene-KRT18P7 | **KRT18P7** | keratin 18 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418883 | gene-LOC10041888 | **LOC100418883** | actin beta pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418887 | gene-TAGLN2P1 | **TAGLN2P1** | transgelin 2 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 100418888 | gene-LOC10041888 | **LOC100418888** | peptidase D pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418889 | gene-STX18P1 | **STX18P1** | syntaxin 18 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.103 |
| 100418902 | gene-TUBBP10 | **TUBBP10** | tubulin beta class I pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418910 | gene-ACTG1P14 | **ACTG1P14** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.091 |
| 100418919 | gene-TNPO1P1 | **TNPO1P1** | transportin 1 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418921 | gene-ACTG1P12 | **ACTG1P12** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418924 | gene-ACTG1P18 | **ACTG1P18** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418928 | gene-RDM1P3 | **RDM1P3** | RDM1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418937 | gene-TUBB8P1 | **TUBB8P1** | tubulin beta 8 class VIII | pseudogene | 0 | 0 | 1 | 1 | 0.929 |
| 100418938 | gene-LOC10041893 | **LOC100418938** | forkhead box H1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418943 | gene-PRDX2P3 | **PRDX2P3** | peroxiredoxin 2 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.028 |
| 100418951 | gene-ACTG1P15 | **ACTG1P15** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418955 | gene-PRDX3P4 | **PRDX3P4** | peroxiredoxin 3 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418956 | gene-LOC10041895 | **LOC100418956** | proline rich 11 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418957 | gene-LOC10041895 | **LOC100418957** | forkhead box H1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418960 | gene-ACTG1P16 | **ACTG1P16** | actin gamma 1 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418973 | gene-CSP1 | **CSP1** | CS pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 100418983 | gene-NF1P12 | **NF1P12** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100418999 | gene-SNX18P1Y | **SNX18P1Y** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419003 | gene-LOC10041900 | **LOC100419003** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419005 | gene-SNX18P25 | **SNX18P25** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419006 | gene-NF1P1 | **NF1P1** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419008 | NM_001362810 | **PRR20G** | proline rich 20G | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100419023 | gene-PDCL3P6 | **PDCL3P6** | PDCL3 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419028 | gene-SNX25P1 | **SNX25P1** | sorting nexin 25 pseudog | pseudogene | 2 | 2 | 3 | 3 | 0.807 |
| 100419029 | gene-NF1P4 | **NF1P4** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419031 | gene-PRDX3P1 | **PRDX3P1** | peroxiredoxin 3 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419037 | gene-LOC10041903 | **LOC100419037** | spermine synthase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419041 | gene-SNX18P12 | **SNX18P12** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.021 |
| 100419043 | gene-SNX18P11 | **SNX18P11** | sorting nexin 18 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419056 | gene-CLCN3P1 | **CLCN3P1** | chloride voltage-gated cl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419059 | gene-LOC10041905 | **LOC100419059** | tubulin epsilon 1 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419062 | gene-FOSL1P1 | **FOSL1P1** | FOSL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.932 |
| 100419066 | gene-NUP35P1 | **NUP35P1** | nucleoporin 35 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419070 | gene-NUP210P3 | **NUP210P3** | nucleoporin 210 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419073 | gene-LOC10041907 | **LOC100419073** | nucleoporin 155kDa pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419074 | gene-AK3P2 | **AK3P2** | adenylate kinase 3 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419075 | gene-AK3P3 | **AK3P3** | adenylate kinase 3 pseu | pseudogene | 1 | 0 | 2 | 1 | 0.923 |
| 100419077 | gene-FCRL6P1 | **FCRL6P1** | Fc receptor like 6 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419085 | gene-SRMP3 | **SRMP3** | SRM pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419096 | gene-LOC10041909 | **LOC100419096** | WD repeat domain 12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419110 | gene-RPL4P7 | **RPL4P7** | ribosomal protein L4 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419140 | gene-LOC10041914 | **LOC100419140** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419161 | gene-LOC10041916 | **LOC100419161** | nei like DNA glycosylase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419170 | NR_134873 | **LOC100419170** | toll like receptor 2 pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.033 |
| 100419174 | gene-LOC10041917 | **LOC100419174** | WD repeat domain 12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419178 | gene-SETP6 | **SETP6** | SET pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419185 | gene-PDLIM1P4 | **PDLIM1P4** | PDZ and LIM domain 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419187 | gene-SETP11 | **SETP11** | SET pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419257 | gene-LOC10041925 | **LOC100419257** | ribosomal protein S2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419284 | gene-LOC10041928 | **LOC100419284** | RAN binding protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419301 | gene-LOC10041930 | **LOC100419301** | ribosomal protein S8 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419307 | gene-LOC10041930 | **LOC100419307** | ribosomal protein L5 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419337 | gene-CENPIP1 | **CENPIP1** | centromere protein I pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419391 | gene-RPL21P135 | **RPL21P135** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419392 | gene-RPL12P44 | **RPL12P44** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419416 | gene-SRPK2P | **SRPK2P** | SRSF protein kinase 2 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419423 | gene-ASNSP4 | **ASNSP4** | asparagine synthetase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419447 | gene-LOC10041944 | **LOC100419447** | lysine acetyltransferase : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100419458 | gene-LOC10041945 | **LOC100419458** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419489 | gene-HDAC1P2 | **HDAC1P2** | histone deacetylase 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419520 | gene-LOC10041952 | **LOC100419520** | RAN binding protein 6 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419521 | gene-RPL21P136 | **RPL21P136** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419545 | gene-LOC10041954 | **LOC100419545** | zinc finger protein 35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419549 | gene-LOC10041954 | **LOC100419549** | PRAME family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419572 | gene-LOC10041957 | **LOC100419572** | uracil DNA glycosylase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419574 | gene-LOC10041957 | **LOC100419574** | HECT and RLD domain c | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 100419579 | gene-LOC10041957 | **LOC100419579** | HECT and RLD domain c | pseudogene | 0 | 0 | 1 | 1 | 1.084 |
| 100419583 | NR_125376 | **LOC100419583** | ring finger protein 4 pse | transcribed_pseu | 84 | 82 | 85 | 83 | 0.983 |
| 100419595 | gene-HDAC1P1 | **HDAC1P1** | histone deacetylase 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419614 | gene-MIOXP1 | **MIOXP1** | myo-inositol oxygenase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419620 | gene-LOC10041962 | **LOC100419620** | RAN binding protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 0.769 |
| 100419621 | gene-LOC10041962 | **LOC100419621** | ribosomal protein L24 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419622 | gene-LOC10041962 | **LOC100419622** | ribosomal protein L37 ps | pseudogene | 1 | 1 | 2 | 2 | 1.061 |
| 100419624 | gene-LOC10041962 | **LOC100419624** | RAN binding protein 1 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419639 | gene-LOC10041963 | **LOC100419639** | ribosomal protein L21 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419643 | gene-RNF14P3 | **RNF14P3** | RNF14 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419645 | gene-RNF14P4 | **RNF14P4** | RNF14 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419649 | gene-PRAMEF35P | **PRAMEF35P** | PRAME family member 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419673 | gene-LOC10041967 | **LOC100419673** | PHD finger protein 10 ps | pseudogene | 1 | 1 | 2 | 2 | 0.636 |
| 100419687 | gene-RNF152P1 | **RNF152P1** | ring finger protein 152 ps | pseudogene | 0 | 0 | 1 | 1 | 1.107 |
| 100419702 | gene-LOC10041970 | **LOC100419702** | necdin, MAGE family me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419705 | gene-ZNF92P2 | **ZNF92P2** | zinc finger protein 92 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419709 | gene-ZNF887P | **ZNF887P** | zinc finger protein 887, p | pseudogene | 2 | 1 | 3 | 2 | 0.660 |
| 100419714 | gene-AHCYP6 | **AHCYP6** | adenosylhomocysteinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419720 | gene-LOC10041972 | **LOC100419720** | RUN domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419722 | gene-RNF19BPY | **RNF19BPY** | ring finger protein 19B p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419724 | gene-ZNF736P8Y | **ZNF736P8Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419725 | gene-ZNF736P7Y | **ZNF736P7Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419726 | gene-ZNF736P9Y | **ZNF736P9Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419730 | gene-ZNF736P11Y | **ZNF736P11Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419731 | gene-ZNF736P12Y | **ZNF736P12Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419732 | gene-ZNF736P6Y | **ZNF736P6Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419733 | gene-ZNF839P1 | **ZNF839P1** | zinc finger protein 839 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419739 | gene-LOC10041973 | **LOC100419739** | zinc finger protein 341 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419743 | NR_121644 | **DBET** | D4Z4 binding element tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100419751 | gene-ZNF587P1 | **ZNF587P1** | zinc finger protein 587 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419758 | gene-PKMP3 | **PKMP3** | pyruvate kinase M1/2 pse | pseudogene | 1 | 1 | 2 | 2 | 1.239 |
| 100419761 | gene-LOC10041976 | **LOC100419761** | zinc finger protein 654 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419764 | gene-GARS1P1 | **GARS1P1** | glycyl-tRNA synthetase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419768 | gene-LOC10041976 | **LOC100419768** | ribosomal protein S15a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419780 | NR_145488 | **ZNF722P** | zinc finger protein 722, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100419788 | gene-RNF19BPX | **RNF19BPX** | ring finger protein 19B p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419792 | gene-LOC10041979 | **LOC100419792** | zinc finger protein 622 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419798 | gene-LOC10041979 | **LOC100419798** | gon-4 like pseudogene | pseudogene | 2 | 2 | 3 | 3 | 0.773 |
| 100419799 | gene-LOC10041979 | **LOC100419799** | gon-4 like pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.963 |
| 100419801 | gene-LOC10041980 | **LOC100419801** | zinc finger protein 532 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419814 | gene-ANKRD49P1 | **ANKRD49P1** | ANKRD49 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.050 |
| 100419815 | gene-SOWAHCP5 | **SOWAHCP5** | SOWAHC pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419821 | gene-CSNK1G2P1 | **CSNK1G2P1** | casein kinase 1 gamma 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419824 | gene-LOC10041982 | **LOC100419824** | kinesin family member 2 | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 100419825 | gene-LOC10041982 | **LOC100419825** | zinc finger protein 655 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419829 | gene-RARS1P1 | **RARS1P1** | arginyl-tRNA synthetase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419836 | gene-LOC10041983 | **LOC100419836** | zinc finger protein 347 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419842 | gene-LOC10041984 | **LOC100419842** | zinc finger protein 396 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419852 | gene-LOC10041985 | **LOC100419852** | sterol carrier protein 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419853 | gene-LOC10041985 | **LOC100419853** | transmembrane protein 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419854 | gene-ZNF646P1 | **ZNF646P1** | zinc finger protein 646 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419863 | gene-LOC10041986 | **LOC100419863** | zinc finger protein 705A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419866 | gene-ZNF444P1 | **ZNF444P1** | zinc finger protein 444 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419867 | gene-ZNF101P1 | **ZNF101P1** | zinc finger protein 101 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419868 | NR_051997 | **ZNF33BP1** | zinc finger protein 33B p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100419873 | gene-ZNF519P1 | **ZNF519P1** | zinc finger protein 519 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419878 | gene-LOC10041987 | **LOC100419878** | methyltransferase like 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419880 | gene-KIF3AP1 | **KIF3AP1** | kinesin family member 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419882 | gene-LOC10041988 | **LOC100419882** | transmembrane protein 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419892 | gene-LOC10041989 | **LOC100419892** | zinc finger protein 592 p | pseudogene | 1 | 2 | 2 | 3 | 1.335 |
| 100419896 | gene-LOC10041989 | **LOC100419896** | zinc finger protein 267 p | pseudogene | 7 | 5 | 8 | 6 | 0.790 |
| 100419903 | gene-RWDD4P1 | **RWDD4P1** | RWD domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419906 | gene-ANKRD11P2 | **ANKRD11P2** | ANKRD11 pseudogene 2 | pseudogene | 3 | 4 | 4 | 5 | 1.181 |
| 100419909 | gene-YAP1P2 | **YAP1P2** | Yes associated protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419912 | gene-LOC10041991 | **LOC100419912** | spalt-like transcription fa | pseudogene | 0 | 0 | 1 | 1 | 0.971 |
| 100419920 | gene-LOC10041992 | **LOC100419920** | ankyrin repeat domain 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419923 | gene-LOC10041992 | **LOC100419923** | density regulated re-initia | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419928 | gene-LOC10041992 | **LOC100419928** | M-phase phosphoprotein | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 100419929 | gene-GCNAP1 | **GCNAP1** | GCNA pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419930 | gene-CENPUP2 | **CENPUP2** | centromere protein U pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419935 | gene-LOC10041993 | **LOC100419935** | TPD52 like 2 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419945 | gene-TRIM51DP | **TRIM51DP** | tripartite motif-containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419947 | gene-HMGB1P21 | **HMGB1P21** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 100419948 | gene-HMGB3P17 | **HMGB3P17** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419959 | gene-LOC10041995 | **LOC100419959** | HBS1 like translational G | pseudogene | 0 | 0 | 1 | 1 | 0.926 |
| 100419962 | gene-ANKRD54P1 | **ANKRD54P1** | ankyrin repeat domain 54 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419963 | gene-YY1P1 | **YY1P1** | YY1 transcription factor p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419975 | gene-LOC10041997 | **LOC100419975** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419989 | gene-THUMPD3P1 | **THUMPD3P1** | THUMP domain containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100419991 | gene-LOC10041999 | **LOC100419991** | phosphoserine phosphat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420003 | gene-E2F3P2 | **E2F3P2** | E2F transcription factor 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420005 | gene-FAR2P4 | **FAR2P4** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420006 | gene-LOC10042000 | **LOC100420006** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420012 | gene-ARF1P2 | **ARF1P2** | ADP ribosylation factor 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420018 | gene-LOC10042001 | **LOC100420018** | WEE2 oocyte meiosis inh | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420021 | gene-LOC10042002 | **LOC100420021** | ankyrin repeat domain 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420022 | gene-LOC10042002 | **LOC100420022** | ankyrin repeat domain 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420024 | gene-LOC10042002 | **LOC100420024** | ankyrin repeat domain 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420025 | gene-LOC10042002 | **LOC100420025** | ankyrin repeat domain 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420027 | gene-LOC10042002 | **LOC100420027** | dedicator of cytokinesis 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420028 | gene-HSPA8P4 | **HSPA8P4** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420033 | gene-HMGB3P7 | **HMGB3P7** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420043 | gene-CACYBPP1 | **CACYBPP1** | calcyclin binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420046 | gene-PRELID1P3 | **PRELID1P3** | PRELID1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420047 | gene-RAD51AP1P1 | **RAD51AP1P1** | RAD51AP1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420050 | gene-LOC10042005 | **LOC100420050** | DNA replication fork stab | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420054 | gene-LOC10042005 | **LOC100420054** | NSFL1 cofactor pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420059 | gene-RFPL4AP2 | **RFPL4AP2** | ret finger protein like 4A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420061 | gene-LOC10042006 | **LOC100420061** | adenylosuccinate syntha | pseudogene | 0 | 1 | 1 | 2 | 1.034 |
| 100420062 | gene-LOC10042006 | **LOC100420062** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420063 | gene-HMGB1P24 | **HMGB1P24** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.179 |
| 100420064 | gene-LOC10042006 | **LOC100420064** | density regulated re-initia | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420067 | gene-TMEM231P1 | **TMEM231P1** | TMEM231 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420072 | gene-EI24P4 | **EI24P4** | EI24 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420073 | gene-DPY19L4P2 | **DPY19L4P2** | DPY19L4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420080 | gene-HSPA8P7 | **HSPA8P7** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420083 | gene-LOC10042008 | **LOC100420083** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420084 | gene-LOC10042008 | **LOC100420084** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420089 | gene-LOC10042008 | **LOC100420089** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420092 | gene-LOC10042009 | **LOC100420092** | poly(rC) binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420109 | gene-WBP1P1 | **WBP1P1** | WBP1 pseudogene 1 | pseudogene | 0 | 1 | 1 | 2 | 1.431 |
| 100420110 | gene-SCYL2P1 | **SCYL2P1** | SCYL2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.047 |
| 100420116 | gene-LOC10042011 | **LOC100420116** | transmembrane protein 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420117 | gene-LOC10042011 | **LOC100420117** | methionyl aminopeptidas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420127 | gene-LOC10042012 | **LOC100420127** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420155 | gene-RPL7L1P2 | **RPL7L1P2** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420159 | gene-RRM2P3 | **RRM2P3** | ribonucleotide reductase | pseudogene | 0 | 0 | 1 | 1 | 1.058 |
| 100420170 | gene-LOC10042017 | **LOC100420170** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100420171 | gene-LOC10042017 | **LOC100420171** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420172 | gene-LOC10042017 | **LOC100420172** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420174 | gene-LOC10042017 | **LOC100420174** | centrosomal protein 170I | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420175 | gene-LOC10042017 | **LOC100420175** | fatty acyl-CoA reductase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420177 | gene-LOC10042017 | **LOC100420177** | kelch like family member | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420178 | gene-E2F6P3 | **E2F6P3** | E2F transcription factor 6 | pseudogene | 1 | 1 | 2 | 2 | 0.906 |
| 100420187 | gene-LOC10042018 | **LOC100420187** | YME1 like 1 ATPase pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420190 | gene-SEPHS2P1 | **SEPHS2P1** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420200 | gene-RPL7L1P12 | **RPL7L1P12** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420201 | gene-RPL7L1P6 | **RPL7L1P6** | ribosomal protein L7 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420207 | gene-MED28P1 | **MED28P1** | mediator complex subun | pseudogene | 0 | 1 | 1 | 2 | 1.640 |
| 100420214 | gene-LOC10042021 | **LOC100420214** | rhomboid domain contair | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420223 | gene-RNMTL1P2 | **RNMTL1P2** | RNA methyltransferase li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420228 | gene-LOC10042022 | **LOC100420228** | MAGE family member C2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420251 | gene-MFFP1 | **MFFP1** | MFF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420252 | gene-LOC10042025 | **LOC100420252** | transmembrane channel | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420253 | gene-CTBP2P8 | **CTBP2P8** | CTBP2 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420255 | gene-LOC10042025 | **LOC100420255** | collagen type XXII alpha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420258 | gene-PLA2G12AP1 | **PLA2G12AP1** | phospholipase A2 group | pseudogene | 0 | 0 | 1 | 1 | 1.197 |
| 100420259 | gene-GDI2P2 | **GDI2P2** | GDP dissociation inhibitc | pseudogene | 1 | 1 | 2 | 2 | 1.119 |
| 100420269 | gene-FBP2P1 | **FBP2P1** | fructose-bisphosphatase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420273 | gene-RAD54L2P1 | **RAD54L2P1** | RAD54L2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420292 | gene-SEPHS1P2 | **SEPHS1P2** | selenophosphate synthe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420295 | gene-RNMTL1P1 | **RNMTL1P1** | RNA methyltransferase li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420300 | gene-FTH1P23 | **FTH1P23** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100420305 | gene-LOC1004203( | **LOC100420305** | unc-93 homolog A (C. el | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420307 | gene-NTAN1P2 | **NTAN1P2** | N-terminal asparagine ar | pseudogene | 1 | 1 | 2 | 2 | 0.934 |
| 100420326 | gene-LOC1004203: | **LOC100420326** | ferritin heavy chain like 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420338 | gene-LOC1004203: | **LOC100420338** | charged multivesicular b | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420341 | gene-SEC63P1 | **SEC63P1** | SEC63 homolog, protein | pseudogene | 0 | 0 | 1 | 1 | 1.066 |
| 100420351 | gene-USP8P2 | **USP8P2** | USP8 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420359 | gene-RPA2P3 | **RPA2P3** | replication protein A2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420401 | gene-BTBD10P2 | **BTBD10P2** | BTB domain containing 1 | pseudogene | 0 | 0 | 1 | 1 | 0.967 |
| 100420405 | gene-TRIM60P15 | **TRIM60P15** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420414 | gene-TRIM60P17 | **TRIM60P17** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420415 | gene-TRIM60P18 | **TRIM60P18** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420423 | gene-LOC1004204: | **LOC100420423** | FKBP prolyl isomerase 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420429 | gene-LOC1004204: | **LOC100420429** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420435 | gene-USP21P1 | **USP21P1** | USP21 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420446 | gene-LOC1004204 | **LOC100420446** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420449 | gene-LOC1004204 | **LOC100420449** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420450 | gene-SERBP1P6 | **SERBP1P6** | SERPINE1 mRNA bindin | pseudogene | 0 | 0 | 1 | 1 | 0.919 |
| 100420458 | gene-TATDN2P3 | **TATDN2P3** | TatD DNase domain con | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420462 | gene-LDHAL6EP | **LDHAL6EP** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420464 | gene-LOC1004204( | **LOC100420464** | salvador family WW dom | pseudogene | 1 | 0 | 2 | 1 | 0.688 |
| 100420471 | gene-ARL4AP4 | **ARL4AP4** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420477 | gene-LDHAL6FP | **LDHAL6FP** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420489 | gene-LOC1004204 | **LOC100420489** | tripartite motif containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420494 | gene-LOC1004204! | **LOC100420494** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420501 | gene-YRDCP1 | **YRDCP1** | yrdC N(6)-threonylcarba | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420503 | gene-EGLN3P1 | **EGLN3P1** | egl-9 family hypoxia-indu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420508 | gene-LDHAL6DP | **LDHAL6DP** | lactate dehydrogenase A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420509 | gene-XIAPP2 | **XIAPP2** | X-linked inhibitor of apop | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420510 | gene-LOC1004205 | **LOC100420510** | myotubularin related pro | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420513 | gene-LOC1004205 | **LOC100420513** | TNF receptor associated | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 100420515 | gene-LOC1004205 | **LOC100420515** | CTD nuclear envelope pl | pseudogene | 0 | 0 | 1 | 1 | 1.089 |
| 100420519 | gene-RANP8 | **RANP8** | RAN pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.177 |
| 100420527 | gene-RBBP4P2 | **RBBP4P2** | RBBP4 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.878 |
| 100420528 | gene-LOC1004205 | **LOC100420528** | CTD nuclear envelope pl | pseudogene | 2 | 1 | 3 | 2 | 0.751 |
| 100420536 | gene-LOC1004205 | **LOC100420536** | islet cell autoantigen 1, 6 | pseudogene | 0 | 0 | 1 | 1 | 0.867 |
| 100420540 | gene-LOC1004205 | **LOC100420540** | cell division cycle associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420547 | gene-LOC1004205 | **LOC100420547** | GTF2I repeat domain cor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420548 | gene-LOC1004205 | **LOC100420548** | GTF2I repeat domain cor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420551 | gene-LOC1004205 | **LOC100420551** | SSX family member 5 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420555 | gene-RPEP3 | **RPEP3** | ribulose-5-phosphate-3-e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420557 | gene-NSRP1P1 | **NSRP1P1** | nuclear speckle splicing | pseudogene | 0 | 0 | 1 | 1 | 1.013 |
| 100420567 | gene-PGAM1P6 | **PGAM1P6** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.108 |
| 100420571 | gene-RAB1AP1 | **RAB1AP1** | RAB1A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 100420575 | gene-LRRC57P1 | **LRRC57P1** | LRRC57 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420576 | gene-LOC1004205 | **LOC100420576** | death associated protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420587 | NR_110759 | **LOC100420587** | SHC binding and spindle | transcribed_pseu | 0 | 0 | 1 | 1 | 0.900 |
| 100420588 | gene-CCDC58P5 | **CCDC58P5** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420591 | gene-OSBPL9P3 | **OSBPL9P3** | oxysterol binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420608 | gene-RPP40P2 | **RPP40P2** | ribonuclease P/MRP sub | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420611 | gene-LOC1004206 | **LOC100420611** | coiled-coil domain contai | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420612 | gene-ERP29P1 | **ERP29P1** | endoplasmic reticulum lu | pseudogene | 0 | 0 | 1 | 1 | 1.110 |
| 100420613 | gene-LRRC34P2 | **LRRC34P2** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420615 | gene-LOC1004206 | **LOC100420615** | signal peptide peptidase | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 100420617 | gene-LOC1004206 | **LOC100420617** | FERM and PDZ domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420618 | gene-LOC1004206 | **LOC100420618** | phospholipase D family r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420621 | gene-MTAPP2 | **MTAPP2** | methylthioadenosine pho | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420633 | gene-PGAM1P10 | **PGAM1P10** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.056 |
| 100420638 | gene-LOC1004206 | **LOC100420638** | chloride intracellular cha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420648 | gene-LOC1004206 | **LOC100420648** | Der1-like domain family, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420650 | gene-PGAM1P7 | **PGAM1P7** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 0.961 |
| 100420665 | gene-RPEP4 | **RPEP4** | ribulose-5-phosphate-3-e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420666 | gene-KDM3AP1 | **KDM3AP1** | KDM3A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420667 | gene-LOC1004206 | **LOC100420667** | solute carrier family 19 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420673 | gene-LOC1004206 | **LOC100420673** | RAB5A, member RAS on | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420679 | gene-LOC1004206 | **LOC100420679** | signal recognition particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420681 | gene-PGAM1P9 | **PGAM1P9** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420689 | gene-CASC4P1 | **CASC4P1** | cancer susceptibility 4 ps | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 100420695 | gene-ABT1P1 | **ABT1P1** | activator of basal transcr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420707 | gene-LOC1004207( | **LOC100420707** | DDB1 and CUL4 associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420711 | gene-LOC1004207 | **LOC100420711** | thioesterase superfamily | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 100420734 | gene-RAB5CP1 | **RAB5CP1** | RAB5C, member RAS or | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420737 | gene-NEFMP1 | **NEFMP1** | neurofilament medium p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420738 | gene-LOC1004207: | **LOC100420738** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420741 | gene-LOC1004207 | **LOC100420741** | adenosylmethionine dec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420742 | gene-LOC1004207 | **LOC100420742** | tetratricopeptide repeat c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420746 | gene-LOC1004207 | **LOC100420746** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420752 | gene-SRP72P1 | **SRP72P1** | signal recognition particl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420754 | gene-SOCS5P1 | **SOCS5P1** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420763 | gene-CKAP2P1 | **CKAP2P1** | cytoskeleton associated | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420772 | gene-COPRSP1 | **COPRSP1** | COPRS pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.942 |
| 100420774 | gene-LOC1004207 | **LOC100420774** | zinc finger DHHC-type pa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420792 | gene-NDFIP1P1 | **NDFIP1P1** | Nedd4 family interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420794 | gene-LOC1004207! | **LOC100420794** | RE1 silencing transcriptic | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420800 | gene-LOC1004208( | **LOC100420800** | suppressor of cytokine si | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420818 | gene-LOC1004208 | **LOC100420818** | eva-1 homolog C (C. ele | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420821 | gene-LOC1004208 | **LOC100420821** | eva-1 homolog C (C. ele | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420831 | gene-LOC1004208 | **LOC100420831** | chromosome 1 open rea | pseudogene | 1 | 1 | 2 | 2 | 0.696 |
| 100420832 | gene-LOC1004208 | **LOC100420832** | cysteine and glycine rich | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420843 | gene-KNOP1P4 | **KNOP1P4** | lysine rich nucleolar prot | pseudogene | 0 | 0 | 1 | 1 | 0.844 |
| 100420848 | gene-LOC1004208 | **LOC100420848** | Myb/SANT DNA binding | pseudogene | 0 | 0 | 1 | 1 | 0.910 |
| 100420850 | gene-LOC1004208 | **LOC100420850** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420863 | gene-LOC1004208 | **LOC100420863** | eva-1 homolog C (C. ele | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420869 | gene-LOC1004208 | **LOC100420869** | acetyl-CoA acyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.199 |
| 100420875 | gene-FAM204BP | **FAM204BP** | family with sequence sir | pseudogene | 0 | 0 | 1 | 1 | 0.832 |
| 100420877 | gene-SLC25A39P1 | **SLC25A39P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420878 | gene-LOC1004208 | **LOC100420878** | GABA type A receptor-as | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420880 | gene-LOC1004208 | **LOC100420880** | DNA primase subunit 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420886 | gene-RNFT1P1 | **RNFT1P1** | ring finger protein, transr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420888 | gene-TOR1BP1 | **TOR1BP1** | TOR1B pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420889 | gene-ANAPC1P3 | **ANAPC1P3** | ANAPC1 pseudogene 3 | pseudogene | 3 | 3 | 4 | 4 | 1.169 |
| 100420890 | gene-ANAPC1P5 | **ANAPC1P5** | ANAPC1 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100420892 | gene-RTRAFP1 | **RTRAFP1** | RTRAF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420907 | gene-LOC1004209( | **LOC100420907** | eva-1 homolog C (C. ele | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420909 | gene-TMEM251P1 | **TMEM251P1** | transmembrane protein 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420911 | gene-RTRAFP2 | **RTRAFP2** | RTRAF pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420920 | gene-ZDHHC4P1 | **ZDHHC4P1** | zinc finger DHHC-type c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420926 | gene-ZEB2P1 | **ZEB2P1** | zinc finger E-box binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420927 | gene-PRMT5P1 | **PRMT5P1** | protein arginine methyltr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420928 | gene-LOC1004209 | **LOC100420928** | telomere repeat binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420946 | gene-KATNBL1P3 | **KATNBL1P3** | katanin regulatory subur | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420963 | gene-FAM204DP | **FAM204DP** | family with sequence sir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420966 | gene-LOC1004209( | **LOC100420966** | chromosome 17 open re | pseudogene | 0 | 0 | 1 | 1 | 1.027 |
| 100420972 | gene-ZFYVE9P2 | **ZFYVE9P2** | zinc finger FYVE-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100420981 | gene-LOC1004209 | **LOC100420981** | nucleosome assembly p | pseudogene | 2 | 1 | 3 | 2 | 0.730 |
| 100420982 | gene-LOC1004209 | **LOC100420982** | retinol dehydrogenase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421006 | gene-LOC1004210( | **LOC100421006** | very low density lipoprote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421008 | gene-SLC9B1P3 | **SLC9B1P3** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421018 | gene-AMZ2P2 | **AMZ2P2** | archaelysin family metall | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421031 | gene-LOC1004210 | **LOC100421031** | carbonic anhydrase 5A p | pseudogene | 0 | 0 | 1 | 1 | 0.795 |
| 100421039 | gene-LOC1004210 | **LOC100421039** | NLR family pyrin domain | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421045 | gene-BCAS2P2 | **BCAS2P2** | BCAS2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421047 | gene-RBMX2P3 | **RBMX2P3** | RBMX2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 100421057 | gene-GSTM3P2 | **GSTM3P2** | glutathione S-transferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421071 | gene-LOC1004210 | **LOC100421071** | zinc finger CCHC-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421072 | gene-COQ10BP2 | **COQ10BP2** | coenzyme Q10B pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421090 | gene-RCC2P4 | **RCC2P4** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421094 | gene-LOC1004210 | **LOC100421094** | ubiquitin specific peptida | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421096 | gene-NCAPGP1 | **NCAPGP1** | non-SMC condensin I co | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 100421097 | gene-ALG1L12P | **ALG1L12P** | ALG1 like 12, pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421113 | gene-CROCCP4 | **CROCCP4** | CROCC pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421114 | gene-CROCCP5 | **CROCCP5** | CROCC pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421129 | gene-IFNL3P1 | **IFNL3P1** | interferon lambda 3 pseu | pseudogene | 1 | 0 | 2 | 1 | 0.611 |
| 100421130 | gene-LOC1004211 | **LOC100421130** | LSM14A, SCD6 homolog | pseudogene | 2 | 1 | 3 | 2 | 0.777 |
| 100421131 | gene-RCC2P6 | **RCC2P6** | regulator of chromosome | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421137 | gene-DPPA2P1 | **DPPA2P1** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421148 | gene-NCAPGP2 | **NCAPGP2** | non-SMC condensin I co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421150 | gene-COQ10BP1 | **COQ10BP1** | coenzyme Q10B pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421153 | gene-DLEC1P1 | **DLEC1P1** | DLEC1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421154 | gene-LOC1004211 | **LOC100421154** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421156 | gene-DPPA4P1 | **DPPA4P1** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421160 | gene-LOC1004211 | **LOC100421160** | structural maintenance o | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421161 | gene-LOC1004211 | **LOC100421161** | ependymin related 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421166 | gene-SEC24AP1 | **SEC24AP1** | SEC24 homolog A pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421175 | gene-NCAPD2P1 | **NCAPD2P1** | non-SMC condensin I co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421177 | gene-TDGF1P1 | **TDGF1P1** | teratocarcinoma-derived | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421178 | gene-PGAM4P1 | **PGAM4P1** | phosphoglycerate mutas | pseudogene | 0 | 0 | 1 | 1 | 0.929 |
| 100421180 | gene-PGBD4P6 | **PGBD4P6** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421182 | gene-PGBD4P7 | **PGBD4P7** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421185 | gene-PGBD4P8 | **PGBD4P8** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421197 | gene-LOC1004211 | **LOC100421197** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421198 | gene-LAMP1P1 | **LAMP1P1** | lysosomal associated me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421201 | gene-LOC1004212( | **LOC100421201** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421202 | gene-LOC1004212( | **LOC100421202** | C-type lectin domain fam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421228 | gene-PGBD4P2 | **PGBD4P2** | piggyBac transposable e | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421235 | gene-LOC1004212 | **LOC100421235** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 100421239 | gene-FANCD2P1 | **FANCD2P1** | FANCD2 pseudogene 1 | pseudogene | 2 | 3 | 3 | 4 | 1.088 |
| 100421245 | gene-NIP7P3 | **NIP7P3** | NIP7 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421246 | gene-LOC1004212 | **LOC100421246** | double PHD fingers 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421258 | gene-LOC1004212 | **LOC100421258** | NOP58 ribonucleoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421267 | gene-LOC1004212( | **LOC100421267** | phosphodiesterase 4D in | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421269 | gene-LOC1004212( | **LOC100421269** | phosphodiesterase 4D in | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421279 | gene-LOC1004212 | **LOC100421279** | phosphodiesterase 4D in | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421281 | gene-LOC1004212 | **LOC100421281** | high density lipoprotein b | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421289 | gene-PRCPP1 | **PRCPP1** | PRCP pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421293 | gene-LOC1004212 | **LOC100421293** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421295 | gene-PRPS1P2 | **PRPS1P2** | phosphoribosyl pyrophos | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421296 | gene-SRSF11P1 | **SRSF11P1** | serine and arginine rich s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421300 | gene-LOC1004213( | **LOC100421300** | pregnancy specific beta- | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421303 | gene-LOC1004213( | **LOC100421303** | DExH-box helicase 9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421306 | gene-LOC1004213( | **LOC100421306** | RecQ like helicase pseu | pseudogene | 1 | 1 | 2 | 2 | 1.196 |
| 100421307 | gene-DDX43P1 | **DDX43P1** | DEAD-box helicase 43 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421309 | gene-LOC1004213( | **LOC100421309** | DEAD-box helicase 25 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421324 | gene-GAPDHP55 | **GAPDHP55** | glyceraldehyde 3 phospl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421328 | gene-DDX50P2 | **DDX50P2** | DEAD-box helicase 50 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421338 | gene-CNOT7P1 | **CNOT7P1** | CCR4-NOT transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421341 | gene-UBE2V2P3 | **UBE2V2P3** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421350 | gene-TCEA1P4 | **TCEA1P4** | transcription elongation f | pseudogene | 1 | 0 | 2 | 1 | 0.617 |
| 100421351 | gene-HNRNPA1P14 | **HNRNPA1P14** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 100421353 | gene-HNRNPA1P15 | **HNRNPA1P15** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.058 |
| 100421358 | gene-LOC1004213 | **LOC100421358** | CREB regulated transcri | pseudogene | 1 | 1 | 2 | 2 | 0.899 |
| 100421361 | gene-IDI1P3 | **IDI1P3** | IDI1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421362 | gene-LOC1004213( | **LOC100421362** | hydroxysteroid 17-beta d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421368 | gene-LOC1004213( | **LOC100421368** | zinc finger and SCAN do | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421372 | NM_001378785,NM | **LOC100421372** | zinc finger and SCAN do | protein_coding | 15 | 15 | 16 | 16 | 0.973 |
| 100421374 | gene-MPRIPP1 | **MPRIPP1** | myosin phosphatase Rh | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 100421378 | gene-HNRNPA1P77 | **HNRNPA1P77** | heterogeneous nuclear r | pseudogene | 1 | 0 | 2 | 1 | 0.671 |
| 100421379 | gene-HNRNPA1P37 | **HNRNPA1P37** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421384 | gene-HNRNPA1P38 | **HNRNPA1P38** | heterogeneous nuclear r | pseudogene | 3 | 3 | 4 | 4 | 0.959 |
| 100421389 | gene-HNRNPA1P9 | **HNRNPA1P9** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421390 | gene-EIF5P1 | **EIF5P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421395 | gene-HNRNPA3P12 | **HNRNPA3P12** | heterogeneous nuclear r | pseudogene | 0 | 1 | 1 | 2 | 1.188 |
| 100421397 | gene-HNRNPA1P68 | **HNRNPA1P68** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421398 | gene-HNRNPA1P54 | **HNRNPA1P54** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.047 |
| 100421399 | gene-HNRNPA1P46 | **HNRNPA1P46** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 100421400 | gene-LOC1004214( | **LOC100421400** | alanyl-tRNA synthetase ( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421409 | gene-LOC1004214( | **LOC100421409** | glucosamine-phosphate | pseudogene | 0 | 1 | 1 | 2 | 1.428 |
| 100421413 | gene-HNRNPA3P10 | **HNRNPA3P10** | heterogeneous nuclear r | pseudogene | 1 | 1 | 2 | 2 | 0.867 |
| 100421415 | gene-HNRNPA3P9 | **HNRNPA3P9** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 100421419 | gene-LOC1004214 | **LOC100421419** | protein phosphatase 4 re | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100421429 | gene-RTEL1P1 | **RTEL1P1** | regulator of telomere elo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421430 | gene-HNRNPA1P74 | **HNRNPA1P74** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100421431 | gene-HNRNPA3P11 | **HNRNPA3P11** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 100421432 | gene-HNRNPA1P44 | **HNRNPA1P44** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421433 | gene-HNRNPA1P71 | **HNRNPA1P71** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421436 | NR_168330 | **UBE2FP1** | UBE2F pseudogene 1 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.137 |
| 100421438 | gene-LOC1004214 | **LOC100421438** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 0.852 |
| 100421444 | gene-LOC1004214 | **LOC100421444** | glucosamine-phosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421465 | gene-LOC1004214( | **LOC100421465** | ubiquitin like modifier act | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421468 | gene-LOC1004214( | **LOC100421468** | ubiquitin like modifier act | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 100421473 | gene-TVP23BP2 | **TVP23BP2** | TVP23B pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421474 | gene-LOC1004214 | **LOC100421474** | CYFIP related Rac1 inter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421480 | gene-TPT1P12 | **TPT1P12** | tumor protein, translatior | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421482 | gene-LOC1004214 | **LOC100421482** | DnaJ (Hsp40) homolog, | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421490 | gene-LOC1004214 | **LOC100421490** | DnaJ heat shock protein | pseudogene | 1 | 1 | 2 | 2 | 1.155 |
| 100421493 | gene-PIMREGP4 | **PIMREGP4** | PIMREG pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421506 | gene-ILF2P1 | **ILF2P1** | interleukin enhancer bin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421510 | gene-LOC1004215 | **LOC100421510** | FAM20B, glycosaminogl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421512 | gene-RBPMS2P1 | **RBPMS2P1** | RBPMS2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421513 | gene-LOC1004215 | **LOC100421513** | TBL1X receptor 1 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421515 | gene-BMPR1AP1 | **BMPR1AP1** | bone morphogenetic pro | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100421517 | gene-LOC1004215 | **LOC100421517** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 100421518 | gene-LOC1004215 | **LOC100421518** | mitotic arrest deficient 2 l | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421523 | gene-LOC1004215 | **LOC100421523** | UDP-N-acetylglucosamir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421528 | gene-EIF4BP5 | **EIF4BP5** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100421533 | gene-EIF4A1P10 | **EIF4A1P10** | eukaryotic translation init | pseudogene | 1 | 1 | 2 | 2 | 1.217 |
| 100421535 | gene-GEMIN8P3 | **GEMIN8P3** | gem nuclear organelle a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421536 | gene-LOC1004215 | **LOC100421536** | diphosphoinositol pentak | pseudogene | 0 | 0 | 1 | 1 | 0.964 |

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|---|---|---|---|---|---|---|---|---|---|
| 100421541 | gene-LOC10042154 | **LOC100421541** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421542 | gene-DNAJA1P6 | **DNAJA1P6** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421545 | gene-EIF4HP2 | **EIF4HP2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421559 | gene-LOC10042155 | **LOC100421559** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421560 | gene-GCNT1P2 | **GCNT1P2** | glucosaminyl (N-acetyl) t | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421561 | gene-LOC10042156 | **LOC100421561** | family with sequence sim | pseudogene | 5 | 5 | 6 | 6 | 0.985 |
| 100421569 | gene-LOC10042156 | **LOC100421569** | glyoxylate reductase 1 h | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 100421572 | gene-MESTP2 | **MESTP2** | mesoderm specific transc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421577 | NR_038275 | **FAM21EP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.039 |
| 100421579 | gene-EIF4A2P2 | **EIF4A2P2** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 100421580 | gene-LOC10042158 | **LOC100421580** | abraxas 1, BRCA1 A com | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421582 | gene-PAIP1P1 | **PAIP1P1** | poly(A) binding protein ir | pseudogene | 1 | 0 | 2 | 1 | 0.665 |
| 100421588 | gene-SINHCAFP1 | **SINHCAFP1** | SINHCAF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.869 |
| 100421594 | gene-LOC10042159 | **LOC100421594** | mitochondrial carrier 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421595 | gene-THRAP3P3 | **THRAP3P3** | THRAP3 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421597 | gene-LOC10042159 | **LOC100421597** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.914 |
| 100421598 | gene-GCNT1P5 | **GCNT1P5** | glucosaminyl (N-acetyl) t | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421614 | gene-LOC10042161 | **LOC100421614** | actin related protein 2 ps | pseudogene | 0 | 0 | 1 | 1 | 0.982 |
| 100421620 | gene-LOC10042162 | **LOC100421620** | RNA polymerase mitoch | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421629 | gene-METTL21AP1 | **METTL21AP1** | methyltransferase like 21 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421632 | gene-THRAP3P2 | **THRAP3P2** | THRAP3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421634 | gene-CUBNP3 | **CUBNP3** | cubilin pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421637 | gene-LOC10042163 | **LOC100421637** | acyl-CoA synthetase lon | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421638 | gene-CTAGE13P | **CTAGE13P** | CTAGE family member 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421641 | gene-LOC10042164 | **LOC100421641** | zinc finger CCHC-type a | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421648 | gene-SUCLA2P3 | **SUCLA2P3** | SUCLA2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421652 | gene-PTP4A1P1 | **PTP4A1P1** | PTP4A1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421655 | gene-LOC10042165 | **LOC100421655** | adaptor related protein c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421675 | gene-ARL2BPP9 | **ARL2BPP9** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421681 | gene-PTP4A1P7 | **PTP4A1P7** | PTP4A1 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421689 | gene-NSA2P5 | **NSA2P5** | NSA2 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421692 | gene-LOC10042169 | **LOC100421692** | leishmanolysin like pepti | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421693 | gene-NSA2P7 | **NSA2P7** | NSA2 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.092 |
| 100421718 | gene-NEK4P1 | **NEK4P1** | NIMA-related kinase 4 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421721 | gene-NSA2P6 | **NSA2P6** | NSA2 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421724 | gene-BNIP3P5 | **BNIP3P5** | BCL2 interacting protein | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 100421730 | gene-LOC10042173 | **LOC100421730** | transmembrane p24 traff | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421731 | gene-VPS26AP1 | **VPS26AP1** | VPS26A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421741 | gene-ARAFP1 | **ARAFP1** | ARAF pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421746 | NR_130179 | **LOC100421746** | PAGE family member 5 p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100421749 | gene-NSA2P1 | **NSA2P1** | NSA2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421756 | gene-EEF1B2P7 | **EEF1B2P7** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421765 | gene-NSA2P4 | **NSA2P4** | NSA2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 0.957 |
| 100421774 | gene-EEF1B2P8 | **EEF1B2P8** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421779 | gene-ACSM5P1 | **ACSM5P1** | acyl-CoA synthetase me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421788 | gene-KMT5AP2 | **KMT5AP2** | KMT5A pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.906 |
| 100421793 | gene-LOC10042179 | **LOC100421793** | tRNA methyltransferase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421796 | gene-EEF1A1P19 | **EEF1A1P19** | eukaryotic translation elc | pseudogene | 6 | 8 | 7 | 9 | 1.188 |
| 100421797 | gene-EEF1A1P20 | **EEF1A1P20** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421799 | gene-LONRF2P2 | **LONRF2P2** | LONRF2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421802 | gene-LOC10042180 | **LOC100421802** | protein phosphatase 2 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421804 | gene-ST3GAL1P1 | **ST3GAL1P1** | ST3GAL1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421809 | gene-LONRF2P3 | **LONRF2P3** | LONRF2 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421810 | gene-LONRF2P4 | **LONRF2P4** | LONRF2 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421811 | gene-LOC10042181 | **LOC100421811** | fumarylacetoacetate hyd | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421815 | gene-EEF1A1P23 | **EEF1A1P23** | eukaryotic translation elc | pseudogene | 3 | 3 | 4 | 4 | 1.053 |
| 100421819 | gene-KMT5AP3 | **KMT5AP3** | KMT5A pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421820 | gene-EEF1A1P36 | **EEF1A1P36** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421822 | gene-LOC10042182 | **LOC100421822** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421827 | gene-LONRF2P1 | **LONRF2P1** | LONRF2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421829 | gene-EEF1A1P10 | **EEF1A1P10** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 100421854 | gene-EEF1A1P4 | **EEF1A1P4** | eukaryotic translation elc | pseudogene | 1 | 1 | 2 | 2 | 1.057 |
| 100421855 | gene-LOC10042185 | **LOC100421855** | SCO1 cytochrome c oxid | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421861 | gene-CBX3P3 | **CBX3P3** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421865 | gene-EEF1A1P3 | **EEF1A1P3** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 0.972 |
| 100421868 | gene-LOC10042186 | **LOC100421868** | glucose-fructose oxidore | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421893 | gene-LOC10042189 | **LOC100421893** | insulin like growth factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421894 | gene-LOC10042189 | **LOC100421894** | exportin for tRNA pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421925 | gene-MOB4P1 | **MOB4P1** | MOB4 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421943 | gene-CBX3P5 | **CBX3P5** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421973 | gene-ARPC3P4 | **ARPC3P4** | actin related protein 2/3 c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421975 | gene-CBX3P7 | **CBX3P7** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100421976 | gene-LOC10042197 | **LOC100421976** | interferon stimulated exo | pseudogene | 0 | 0 | 1 | 1 | 1.061 |
| 100422022 | gene-LOC10042202 | **LOC100422022** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422026 | gene-LOC10042202 | **LOC100422026** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422032 | gene-LOC10042203 | **LOC100422032** | intraflagellar transport 80 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422055 | gene-VPS35P1 | **VPS35P1** | VPS35 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422076 | gene-LOC10042207 | **LOC100422076** | phosphatidylinositol tran | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422094 | gene-KCTD5P1 | **KCTD5P1** | KCTD5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422179 | gene-KCTD9P5 | **KCTD9P5** | potassium channel tetrar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422194 | gene-LOC10042219 | **LOC100422194** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422212 | NR_104294 | **LOC100422212** | eukaryotic translation init | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100422225 | gene-LOC10042222 | **LOC100422225** | ATP binding cassette sul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422232 | gene-LOC10042223 | **LOC100422232** | Parkinsonism associated | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422238 | gene-CYP4F23P | **CYP4F23P** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422242 | gene-KCTD9P4 | **KCTD9P4** | potassium channel tetrar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422250 | gene-SUMO2P11 | **SUMO2P11** | SUMO2 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422264 | gene-CYP51A1P3 | **CYP51A1P3** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422268 | gene-BRIX1P1 | **BRIX1P1** | BRIX1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422271 | gene-PSMC2P2 | **PSMC2P2** | PSMC2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422273 | gene-KCTD9P1 | **KCTD9P1** | potassium channel tetrar | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422275 | gene-LOC10042227 | **LOC100422275** | proteasome 20S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422286 | gene-PSMA1P1 | **PSMA1P1** | proteasome 20S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422287 | gene-LOC10042228 | **LOC100422287** | proteasome 20S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422289 | gene-PSMB7P1 | **PSMB7P1** | PSMB7 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422294 | gene-CAPZA1P2 | **CAPZA1P2** | CAPZA1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 100422296 | gene-LOC10042229 | **LOC100422296** | Parkinsonism associated | pseudogene | 2 | 0 | 3 | 1 | 0.398 |
| 100422298 | gene-LOC10042229 | **LOC100422298** | iron-sulfur cluster assem | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422299 | gene-C1QBPP2 | **C1QBPP2** | complement C1q binding | pseudogene | 0 | 0 | 1 | 1 | 0.882 |
| 100422300 | gene-LOC10042230 | **LOC100422300** | pyridine nucleotide-disul | pseudogene | 0 | 0 | 1 | 1 | 0.936 |
| 100422305 | gene-PSMC1P13 | **PSMC1P13** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422310 | gene-C1QBPP3 | **C1QBPP3** | complement C1q binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422317 | gene-LOC10042231 | **LOC100422317** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422330 | gene-QRSL1P2 | **QRSL1P2** | QRSL1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422337 | gene-GNA13P1 | **GNA13P1** | GNA13 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422338 | gene-G3BP1P1 | **G3BP1P1** | G3BP1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.021 |
| 100422339 | gene-SDR42E1P5 | **SDR42E1P5** | short chain dehydrogena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422342 | gene-PIGUP1 | **PIGUP1** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422343 | gene-UPF3AP3 | **UPF3AP3** | UPF3A pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.959 |
| 100422349 | gene-PIGFP2 | **PIGFP2** | phosphatidylinositol glyc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422368 | gene-LOC10042236 | **LOC100422368** | UPF3B, regulator of non | pseudogene | 1 | 1 | 2 | 2 | 1.216 |
| 100422369 | gene-LOC10042236 | **LOC100422369** | par-6 family cell polarity | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422371 | gene-RIMKLBP2 | **RIMKLBP2** | ribosomal modification pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422374 | gene-QRSL1P3 | **QRSL1P3** | QRSL1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422375 | gene-LOC10042237 | **LOC100422375** | phosphatidylinositol-4,5- | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 100422376 | gene-LOC10042237 | **LOC100422376** | ArfGAP with GTPase dor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422382 | gene-LOC10042238 | **LOC100422382** | nocturnin pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.936 |
| 100422384 | gene-POLR3DP1 | **POLR3DP1** | RNA polymerase III subu | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 100422391 | gene-POLR3GP2 | **POLR3GP2** | RNA polymerase III subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422395 | gene-POLR3GP1 | **POLR3GP1** | RNA polymerase III subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422402 | gene-LOC10042240 | **LOC100422402** | RAS guanyl releasing pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422408 | gene-LOC10042240 | **LOC100422408** | LanC like 3 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422411 | gene-PSMD8P1 | **PSMD8P1** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422413 | gene-LOC10042241 | **LOC100422413** | proteasome 26S subunit | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422414 | gene-LOC10042241 | **LOC100422414** | proteasome (prosome, m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422416 | gene-LOC10042241 | **LOC100422416** | ADAM metallopeptidase | pseudogene | 0 | 0 | 1 | 1 | 1.118 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100422426 | gene-LOC10042242 | **LOC100422426** | CASP2 and RIPK1 doma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422432 | gene-SLC6A14P1 | **SLC6A14P1** | SLC6A14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422434 | gene-LOC10042243 | **LOC100422434** | complement C3b/C4b re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422437 | gene-MYL6BP1 | **MYL6BP1** | myosin light chain 6B ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422441 | gene-LOC10042244 | **LOC100422441** | heat shock protein 90kD | pseudogene | 0 | 0 | 1 | 1 | 0.927 |
| 100422456 | gene-LOC10042245 | **LOC100422456** | v-rel avian reticuloendoth | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422469 | gene-B3GNT2P1 | **B3GNT2P1** | B3GNT2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422473 | gene-TOMM40P4 | **TOMM40P4** | TOMM40 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.118 |
| 100422478 | gene-LOC10042247 | **LOC100422478** | potassium inwardly rectif | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422486 | gene-KRR1P1 | **KRR1P1** | KRR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422490 | gene-LOC10042249 | **LOC100422490** | UTP6, small subunit (SS | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422491 | gene-LOC10042249 | **LOC100422491** | amyloid beta precursor p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422492 | gene-LOC10042249 | **LOC100422492** | amyloid beta precursor p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422493 | gene-LOC10042249 | **LOC100422493** | required for meiotic nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422495 | gene-LOC10042249 | **LOC100422495** | protein tyrosine phospha | pseudogene | 0 | 0 | 1 | 1 | 1.084 |
| 100422497 | gene-LOC10042249 | **LOC100422497** | UTP18, small subunit (S | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422502 | gene-LOC10042250 | **LOC100422502** | transient receptor potent | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422531 | gene-FCF1P8 | **FCF1P8** | FCF1 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422532 | gene-NDUFAF4P3 | **NDUFAF4P3** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422533 | gene-FCF1P1 | **FCF1P1** | FCF1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.275 |
| 100422535 | gene-FCF1P6 | **FCF1P6** | FCF1 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.098 |
| 100422536 | gene-FCF1P7 | **FCF1P7** | FCF1 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 0.825 |
| 100422537 | gene-LOC10042253 | **LOC100422537** | signal sequence recepto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422546 | gene-XRCC6P4 | **XRCC6P4** | X-ray repair cross compl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422547 | gene-SLC16A1P1 | **SLC16A1P1** | SLC16A1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422556 | NR_109775 | **LOC100422556** | LEO1 homolog, Paf1/RN | transcribed_pseu | 1 | 1 | 2 | 2 | 0.764 |
| 100422558 | NR_135312 | **SMG1P6** | SMG1 pseudogene 6 | transcribed_pseu | 6 | 5 | 7 | 6 | 0.886 |
| 100422561 | gene-LOC10042256 | **LOC100422561** | receptor for activated C k | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422562 | gene-LOC10042256 | **LOC100422562** | receptor for activated C k | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422581 | gene-DFFBP1 | **DFFBP1** | DNA fragmentation facto | pseudogene | 1 | 1 | 2 | 2 | 1.016 |
| 100422582 | gene-ELOCP31 | **ELOCP31** | elongin C pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422588 | gene-MGAT2P1 | **MGAT2P1** | MGAT2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422589 | gene-MGAT2P2 | **MGAT2P2** | MGAT2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422591 | gene-SDHCP3 | **SDHCP3** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422593 | gene-LOC10042259 | **LOC100422593** | defective in cullin neddyl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422595 | gene-PCMTD1P3 | **PCMTD1P3** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422598 | gene-SDHCP4 | **SDHCP4** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422600 | gene-SDHCP1 | **SDHCP1** | succinate dehydrogenas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422602 | gene-ST13P14 | **ST13P14** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422603 | gene-ST13P15 | **ST13P15** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 100422605 | gene-ST13P16 | **ST13P16** | ST13, Hsp70 interacting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422623 | gene-LOC10042262 | **LOC100422623** | CEA cell adhesion molec | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422624 | gene-SLC25A15P1 | **SLC25A15P1** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422627 | gene-LOC10042262 | **LOC100422627** | TATA-box binding protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422635 | gene-SLC25A15P3 | **SLC25A15P3** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422636 | gene-SLC25A15P4 | **SLC25A15P4** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422640 | gene-LOC10042264 | **LOC100422640** | 5-aminoimidazole-4-carb | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422642 | gene-SLC25A15P5 | **SLC25A15P5** | solute carrier family 25 m | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 100422645 | gene-LOC10042264 | **LOC100422645** | CTD small phosphatase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422646 | gene-LOC10042264 | **LOC100422646** | 1-aminocyclopropane-1-( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422666 | gene-YWHABP2 | **YWHABP2** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 0.871 |
| 100422669 | gene-LOC10042266 | **LOC100422669** | tyrosine 3-monooxygena | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422691 | gene-ITGB1P1 | **ITGB1P1** | integrin subunit beta 1 p | pseudogene | 2 | 1 | 3 | 2 | 0.782 |
| 100422694 | gene-LOC10042269 | **LOC100422694** | polypeptide N-acetylgala | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422711 | gene-THAP12P2 | **THAP12P2** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.010 |
| 100422712 | gene-THAP12P7 | **THAP12P7** | THAP domain containing | pseudogene | 1 | 1 | 2 | 2 | 1.005 |
| 100422713 | gene-LOC10042271 | **LOC100422713** | PTPRF interacting protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100422717 | gene-LOC10042271 | **LOC100422717** | pterin-4 alpha-carbinolar | pseudogene | 1 | 0 | 2 | 1 | 0.734 |
| 100422737 | NR_033557,NR_147 | **LINC02532** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422781 | NR_147505 | **LOC100422781** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422821 | NR_036100,rna-MIR | **MIR1273C** | microRNA 1273c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422823 | NR_036186,rna-MIR | **MIR4300** | microRNA 4300 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422824 | NR_036075,rna-MIR | **MIR3128** | microRNA 3128 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422825 | NR_036118,rna-MIR | **MIR3160-2** | microRNA 3160-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422826 | NR_036238,rna-MIR | **MIR4274** | microRNA 4274 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422827 | NR_036117,rna-MIR | **MIR3160-1** | microRNA 3160-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422828 | NR_036249,rna-MIR | **MIR4287** | microRNA 4287 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422829 | NR_036203,rna-MIR | **MIR4319** | microRNA 4319 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422830 | NR_130461,rna-MIR | **MIR3171** | microRNA 3171 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422831 | NR_036266,rna-MIR | **MIR1302-9** | microRNA 1302-9 | miRNA | 0 | 0 | 1 | 1 | 0.948 |
| 100422832 | NR_036159,rna-MIR | **MIR3191** | microRNA 3191 | miRNA | 1 | 1 | 2 | 2 | 0.730 |
| 100422833 | NR_036155,rna-MIR | **MIR3188** | microRNA 3188 | miRNA | 1 | 0 | 2 | 1 | 0.437 |
| 100422834 | NR_036267,rna-MIR | **MIR1302-10** | microRNA 1302-10 | miRNA | 0 | 0 | 1 | 1 | 1.034 |
| 100422835 | NR_036148,rna-MIR | **MIR3183** | microRNA 3183 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422836 | NR_036144,rna-MIR | **MIR3180-3** | microRNA 3180-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422837 | NR_036132,rna-MIR | **MIR1193** | microRNA 1193 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422838 | NR_130463,rna-MIR | **MIR3195** | microRNA 3195 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422839 | NR_036064,rna-MIR | **MIR3119-1** | microRNA 3119-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422840 | NR_036205,rna-MIR | **MIR4317** | microRNA 4317 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422841 | NR_036135,rna-MIR | **MIR3174** | microRNA 3174 | miRNA | 0 | 0 | 1 | 1 | 1.290 |
| 100422842 | NR_036109,rna-MIR | **MIR3074** | microRNA 3074 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422843 | NR_036181,rna-MIR | **MIR4293** | microRNA 4293 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422844 | NR_036063,rna-MIR | **MIR3118-3** | microRNA 3118-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422845 | NR_036261,rna-MIR | **MIR1233-2** | hsa-miR-1233-3p | . | 0 | 0 | 1 | 1 | 0.963 |
| 100422846 | NR_036122,rna-MIR | **MIR3164** | microRNA 3164 | miRNA | 0 | 0 | 1 | 1 | 0.958 |
| 100422847 | NR_036173,rna-MIR | **MIR514B** | microRNA 514b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422848 | NR_036270,rna-MIR | **MIR4283-2** | microRNA 4283-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422849 | NR_036093,rna-MIR | **MIR548T** | microRNA 548t | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422850 | NR_036103,rna-MIR | **MIR548V** | microRNA 548v | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422851 | NR_036200,rna-MIR | **MIR4316** | microRNA 4316 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422852 | NR_130464,rna-MIR | **MIR4259** | microRNA 4259 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422853 | NR_036147,rna-MIR | **MIR3182** | microRNA 3182 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422854 | NR_036154,rna-MIR | **MIR3187** | microRNA 3187 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422855 | NR_036183,rna-MIR | **MIR4301** | microRNA 4301 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422856 | NR_036069,rna-MIR | **MIR3123** | microRNA 3123 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422857 | NR_036202,rna-MIR | **MIR4318** | microRNA 4318 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422858 | NR_036245,rna-MIR | **MIR4285** | microRNA 4285 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422859 | NR_036087,rna-MIR | **MIR3136** | microRNA 3136 | miRNA | 0 | 1 | 1 | 2 | 1.527 |
| 100422860 | NR_036251,rna-MIR | **MIR4292** | microRNA 4292 | miRNA | 4 | 3 | 5 | 4 | 0.667 |
| 100422861 | NR_036191,rna-MIR | **MIR4306** | microRNA 4306 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422862 | NR_036071,rna-MIR | **MIR548S** | microRNA 548s | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422863 | NR_036223,rna-MIR | **MIR4265** | microRNA 4265 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422864 | NR_036088,rna-MIR | **MIR544B** | microRNA 544b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422865 | NR_036204,rna-MIR | **MIR4320** | microRNA 4320 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422866 | NR_036057,rna-MIR | **MIR3115** | microRNA 3115 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422867 | NR_036180,rna-MIR | **MIR378C** | microRNA 378c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422868 | NR_036232,rna-MIR | **MIR4270** | microRNA 4270 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422869 | NR_036107,rna-MIR | **MIR3152** | microRNA 3152 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422870 | NR_036141,rna-MIR | **MIR3180-1** | microRNA 3180-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422871 | NR_036060,rna-MIR | **MIR3117** | microRNA 3117 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422872 | NR_036263,rna-MIR | **MIR1244-3** | microRNA 1244-3 | miRNA | 14 | 11 | 15 | 12 | 0.764 |
| 100422873 | NR_036179,rna-MIR | **MIR4297** | microRNA 4297 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422874 | NR_036241,rna-MIR | **MIR4279** | microRNA 4279 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422875 | NR_036160,rna-MIR | **MIR3192** | microRNA 3192 | miRNA | 0 | 0 | 1 | 1 | 0.764 |
| 100422876 | NR_036104,rna-MIR | **MIR3148** | microRNA 3148 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422877 | NR_036175,rna-MIR | **MIR3202-2** | microRNA 3202-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422878 | NR_036127,rna-MIR | **MIR3168** | microRNA 3168 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422879 | NR_036070,rna-MIR | **MIR3124** | microRNA 3124 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422880 | NR_036120,rna-MIR | **MIR3162** | microRNA 3162 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422881 | NR_036129,rna-MIR | **MIR3170** | microRNA 3170 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422882 | NR_036066,rna-MIR | **MIR3120** | microRNA 3120 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422883 | NR_036219,rna-MIR | **MIR4325** | microRNA 4325 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422884 | NR_036097,rna-MIR | **MIR548U** | microRNA 548u | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422885 | NR_036262,rna-MIR | **MIR1244-2** | microRNA 1244-2 | miRNA | 773 | 758 | 774 | 759 | 0.981 |
| 100422886 | NR_036143,rna-MIR | **MIR3179-2** | microRNA 3179-2 | miRNA | 0 | 0 | 1 | 1 | 1.031 |
| 100422887 | NR_036243,rna-MIR | **MIR4280** | microRNA 4280 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100422888 | NR_036231,rna-MIF | **MIR4264** | microRNA 4264 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422889 | NR_036162,rna-MIF | **MIR3194** | microRNA 3194 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422891 | NR_036221,rna-MIF | **MIR4327** | microRNA 4327 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422892 | NR_036113,rna-MIF | **MIR3157** | microRNA 3157 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422893 | NR_036110,rna-MIF | **MIR3154** | microRNA 3154 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422894 | NR_036213,rna-MIF | **MIR4260** | microRNA 4260 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422895 | NR_036182,rna-MIF | **MIR4294** | microRNA 4294 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422896 | NR_036092,rna-MIF | **MIR3140** | microRNA 3140 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422897 | NR_036188,rna-MIF | **MIR4302** | microRNA 4302 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422898 | NR_036217,rna-MIF | **MIR4255** | microRNA 4255 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422899 | NR_036158,rna-MIF | **MIR3190** | microRNA 3190 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422900 | NR_036114,rna-MIF | **MIR3158-1** | microRNA 3158-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422901 | NR_036086,rna-MIF | **MIR3135A** | microRNA 3135a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422902 | NR_036058,rna-MIF | **MIR3116-1** | microRNA 3116-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422903 | NR_036250,rna-MIF | **MIR4288** | microRNA 4288 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422904 | NR_036161,rna-MIF | **MIR3193** | hsa-miR-3193 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100422905 | NR_036196,rna-MIF | **MIR4311** | microRNA 4311 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422907 | NR_036153,rna-MIF | **MIR3156-2** | microRNA 3156-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422908 | NR_036076,rna-MIF | **MIR3129** | microRNA 3129 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422909 | NR_036177,rna-MIF | **MIR4295** | microRNA 4295 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422910 | NR_036055,rna-MIF | **MIR2861** | microRNA 2861 | miRNA | 0 | 0 | 1 | 1 | 0.995 |
| 100422911 | NR_036257,rna-MIF | **MIR500B** | microRNA 500b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422912 | NR_036171,rna-MIF | **MIR3200** | microRNA 3200 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422913 | NR_036157,rna-MIF | **MIR320E** | microRNA 320e | miRNA | 1 | 0 | 2 | 1 | 0.401 |
| 100422914 | NR_036214,rna-MIF | **MIR4253** | microRNA 4253 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422915 | NR_036151,rna-MIF | **MIR3065** | microRNA 3065 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422916 | NR_036172,rna-MIF | **MIR3201** | hsa-miR-3201 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100422917 | NR_036246,rna-MIF | **MIR4283-1** | microRNA 4283-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422918 | NR_036126,rna-MIF | **MIR3167** | microRNA 3167 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422919 | NR_036268,rna-MIF | **MIR1302-11** | microRNA 1302-11 | miRNA | 0 | 0 | 1 | 1 | 0.948 |
| 100422920 | NR_036166,rna-MIF | **MIR548X** | microRNA 548x | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422921 | NR_130460,rna-MIF | **MIR3149** | microRNA 3149 | miRNA | 0 | 1 | 1 | 2 | 1.420 |
| 100422922 | NR_036265,rna-MIF | **MIR1972-2** | microRNA 1972-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422923 | NR_036146,rna-MIF | **MIR548W** | microRNA 548w | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422924 | NR_036189,rna-MIF | **MIR4303** | microRNA 4303 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422925 | NR_036206,rna-MIF | **MIR4322** | microRNA 4322 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422926 | NR_036089,rna-MIF | **MIR3137** | microRNA 3137 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422927 | NR_036254,rna-MIF | **MIR4291** | microRNA 4291 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422928 | NR_036074,rna-MIF | **MIR3127** | microRNA 3127 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422929 | NR_036222,rna-MIF | **MIR4261** | microRNA 4261 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422930 | NR_036256,rna-MIF | **MIR4330** | microRNA 4330 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422931 | NR_036187,rna-MIF | **MIR4304** | microRNA 4304 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422932 | NR_036258,rna-MIF | **MIR4328** | microRNA 4328 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422933 | NR_036084,rna-MIF | **MIR378B** | microRNA 378b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422934 | NR_036096,rna-MIF | **MIR3143** | microRNA 3143 | miRNA | 0 | 1 | 1 | 2 | 1.884 |
| 100422935 | NR_036134,rna-MIF | **MIR3118-4** | microRNA 3118-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422936 | NR_036108,rna-MIF | **MIR3153** | microRNA 3153 | miRNA | 2 | 1 | 3 | 2 | 0.993 |
| 100422937 | NR_036237,rna-MIF | **MIR4275** | microRNA 4275 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422938 | NR_036095,rna-MIF | **MIR3142** | microRNA 3142 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422939 | NR_036102,rna-MIF | **MIR3147** | microRNA 3147 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422940 | NR_036190,rna-MIF | **MIR4305** | microRNA 4305 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422941 | NR_036234,rna-MIF | **MIR4272** | microRNA 4272 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422942 | NR_036083,rna-MIF | **MIR3133** | microRNA 3133 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422943 | NR_036156,rna-MIF | **MIR3189** | microRNA 3189 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422944 | NR_036152,rna-MIF | **MIR3186** | microRNA 3186 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422945 | NR_036220,rna-MIF | **MIR4326** | microRNA 4326 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422946 | NR_036059,rna-MIF | **MIR3116-2** | microRNA 3116-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422947 | NR_036068,rna-MIF | **MIR3122** | microRNA 3122 | miRNA | 1 | 0 | 2 | 1 | 0.620 |
| 100422948 | NR_036247,rna-MIF | **MIR4284** | microRNA 4284 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422949 | NR_036062,rna-MIF | **MIR3118-2** | microRNA 3118-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422950 | NR_036094,rna-MIF | **MIR3141** | microRNA 3141 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422951 | NR_036098,rna-MIF | **MIR3144** | microRNA 3144 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422952 | NR_036233,rna-MIF | **MIR4271** | microRNA 4271 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422953 | NR_036123,rna-MIF | **MIR3165** | microRNA 3165 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422954 | NR_036192,rna-MIF | **MIR4309** | microRNA 4309 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422955 | NR_036235,rna-MIF | **MIR4273** | microRNA 4273 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422956 | NR_036142,rna-MIF | **MIR3180-2** | microRNA 3180-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422957 | NR_036081,rna-MIF | **MIR3131** | microRNA 3131 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422959 | NR_036228,rna-MIF | **MIR4268** | microRNA 4268 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422960 | NR_036140,rna-MIF | **MIR3179-1** | microRNA 3179-1 | miRNA | 0 | 0 | 1 | 1 | 0.996 |
| 100422961 | NR_036271,rna-MIF | **MIR4315-2** | microRNA 4315-2 | miRNA | 0 | 0 | 1 | 1 | 0.934 |
| 100422962 | NR_036239,rna-MIF | **MIR4281** | microRNA 4281 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422963 | NR_036253,rna-MIF | **MIR4290** | microRNA 4290 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422964 | NR_036105,rna-MIF | **MIR3150A** | microRNA 3150a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422965 | NR_036230,rna-MIF | **MIR4263** | microRNA 4263 | miRNA | 0 | 0 | 1 | 1 | 1.438 |
| 100422966 | NR_036240,rna-MIF | **MIR4277** | microRNA 4277 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422967 | NR_036101,rna-MIF | **MIR3146** | microRNA 3146 | miRNA | 0 | 0 | 1 | 1 | 0.834 |
| 100422968 | NR_036215,rna-MIF | **MIR4251** | microRNA 4251 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422969 | NR_036056,rna-MIF | **MIR2909** | microRNA 2909 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422971 | NR_036197,rna-MIF | **MIR4312** | microRNA 4312 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422972 | NR_130462,rna-MIF | **MIR3181** | microRNA 3181 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422973 | NR_036128,rna-MIF | **MIR3169** | microRNA 3169 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422974 | NR_036139,rna-MIF | **MIR3178** | microRNA 3178 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422975 | NR_036218,rna-MIF | **MIR4252** | microRNA 4252 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422976 | NR_036210,rna-MIF | **MIR4256** | microRNA 4256 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422977 | NR_036260,rna-MIF | **MIR1184-3** | microRNA 1184-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422978 | NR_036150,rna-MIF | **MIR3185** | microRNA 3185 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422979 | NR_036209,rna-MIF | **MIR4324** | microRNA 4324 | miRNA | 0 | 1 | 1 | 2 | 1.553 |
| 100422980 | NR_036208,rna-MIF | **MIR4323** | microRNA 4323 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422981 | NR_036131,rna-MIF | **MIR3173** | microRNA 3173 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422982 | NR_036248,rna-MIF | **MIR4286** | microRNA 4286 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422983 | NR_036201,rna-MIF | **MIR4314** | microRNA 4314 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422984 | NR_036194,rna-MIF | **MIR4308** | microRNA 4308 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422985 | NR_036259,rna-MIF | **MIR1184-2** | microRNA 1184-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422986 | NR_036072,rna-MIF | **MIR3125** | microRNA 3125 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422987 | NR_036174,rna-MIF | **MIR3202-1** | microRNA 3202-1 | miRNA | 0 | 0 | 1 | 1 | 0.818 |
| 100422988 | NR_036112,rna-MIF | **MIR3156-1** | microRNA 3156-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422989 | NR_036111,rna-MIF | **MIR3155A** | microRNA 3155a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422990 | NR_036085,rna-MIF | **MIR3134** | microRNA 3134 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422991 | NR_036125,rna-MIF | **MIR1260B** | microRNA 1260b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422992 | NR_036106,rna-MIF | **MIR3151** | microRNA 3151 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422993 | NR_036077,rna-MIF | **MIR3130-1** | microRNA 3130-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422994 | NR_036225,rna-MIF | **MIR4267** | microRNA 4267 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422995 | NR_036136,rna-MIF | **MIR3175** | microRNA 3175 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422996 | NR_036226,rna-MIF | **MIR4262** | microRNA 4262 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422997 | NR_036211,rna-MIF | **MIR4257** | microRNA 4257 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100422998 | NR_036170,rna-MIF | **MIR3199-2** | microRNA 3199-2 | miRNA | 0 | 0 | 1 | 1 | 0.838 |
| 100422999 | NR_036242,rna-MIF | **MIR4278** | microRNA 4278 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423000 | NR_036119,rna-MIF | **MIR3161** | microRNA 3161 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423001 | NR_036099,rna-MIF | **MIR3145** | microRNA 3145 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423002 | NR_036078,rna-MIF | **MIR3130-2** | microRNA 3130-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423003 | NR_036149,rna-MIF | **MIR3184** | microRNA 3184 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423004 | NR_036199,rna-MIF | **MIR4315-1** | microRNA 4315-1 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 100423005 | NR_036244,rna-MIF | **MIR4282** | microRNA 4282 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423006 | NR_036145,rna-MIF | **MIR3179-3** | microRNA 3179-3 | miRNA | 0 | 0 | 1 | 1 | 1.169 |
| 100423008 | NR_036061,rna-MIF | **MIR3118-1** | microRNA 3118-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423009 | NR_036255,rna-MIF | **MIR4329** | microRNA 4329 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423010 | NR_036065,rna-MIF | **MIR3119-2** | microRNA 3119-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423011 | NR_036090,rna-MIF | **MIR3138** | microRNA 3138 | miRNA | 1 | 0 | 2 | 1 | 0.598 |
| 100423012 | NR_036138,rna-MIF | **MIR3177** | microRNA 3177 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423013 | NR_036195,rna-MIF | **MIR4310** | microRNA 4310 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423014 | NR_036163,rna-MIF | **MIR3196** | microRNA 3196 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423015 | NR_036252,rna-MIF | **MIR4289** | microRNA 4289 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423016 | NR_036116,rna-MIF | **MIR3159** | microRNA 3159 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423017 | NR_036091,rna-MIF | **MIR3139** | microRNA 3139 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423018 | NR_036164,rna-MIF | **MIR3156-3** | microRNA 3156-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100423019 | NR_036193,ma-MIF | **MIR4307** | microRNA 4307 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423020 | NR_036212,ma-MIF | **MIR4258** | microRNA 4258 | miRNA | 3 | 2 | 4 | 3 | 0.748 |
| 100423021 | NR_036185,ma-MIF | **MIR4298** | microRNA 4298 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423023 | NR_036167,ma-MIF | **MIR3197** | microRNA 3197 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423025 | NR_036168,ma-MIF | **MIR3198-1** | microRNA 3198-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423026 | NR_036184,ma-MIF | **MIR4299** | microRNA 4299 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423027 | NR_036224,ma-MIF | **MIR4266** | microRNA 4266 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423028 | NR_036216,ma-MIF | **MIR4254** | microRNA 4254 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423029 | NR_036121,ma-MIF | **MIR3163** | microRNA 3163 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423030 | NR_036073,ma-MIF | **MIR3126** | microRNA 3126 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423031 | NR_036207,ma-MIF | **MIR4321** | microRNA 4321 | miRNA | 0 | 1 | 1 | 2 | 1.142 |
| 100423032 | NR_036067,ma-MIF | **MIR3121** | microRNA 3121 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423033 | NR_036115,ma-MIF | **MIR3158-2** | microRNA 3158-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423034 | NR_036169,ma-MIF | **MIR3199-1** | microRNA 3199-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423035 | NR_036198,ma-MIF | **MIR4313** | microRNA 4313 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423036 | NR_036227,ma-MIF | **MIR2355** | microRNA 2355 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423037 | NR_036137,ma-MIF | **MIR3176** | microRNA 3176 | miRNA | 7 | 9 | 8 | 10 | 1.267 |
| 100423038 | NR_130459,ma-MIF | **MIR466** | microRNA 466 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423039 | NR_036082,ma-MIF | **MIR3132** | microRNA 3132 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423040 | NR_036124,ma-MIF | **MIR3166** | microRNA 3166 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423041 | NR_036178,ma-MIF | **MIR4296** | microRNA 4296 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423042 | NR_036236,ma-MIF | **MIR4276** | microRNA 4276 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423043 | NR_036229,ma-MIF | **MIR4269** | microRNA 4269 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100423044 | gene-LOC10042304 | **LOC100423044** | solute carrier family 34 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100423046 | gene-STX8P1 | **STX8P1** | syntaxin 8 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100423060 | gene-ASNSP6 | **ASNSP6** | asparagine synthetase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100423061 | gene-ASNSP3 | **ASNSP3** | asparagine synthetase p | pseudogene | 0 | 0 | 1 | 1 | 0.934 |
| 100423062 | NM_001178126,NM | **IGLL5** | immunoglobulin lambda | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100431168 | gene-MYL6P2 | **MYL6P2** | myosin light chain 6 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100431172 | NM_001190765 | **KLRF2** | killer cell lectin like recep | protein_coding | 7 | 4 | 8 | 5 | 0.594 |
| 100431174 | gene-LOC10043117 | **LOC100431174** | clathrin light chain A pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100431175 | gene-LOC10043117 | **LOC100431175** | apolipoprotein O like pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100431177 | gene-BHLHB9P1 | **BHLHB9P1** | basic helix-loop-helix fam | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462652 | gene-SLC6A14P2 | **SLC6A14P2** | SLC6A14 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462767 | gene-ACTBP12 | **ACTBP12** | ACTB pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462776 | gene-RRAGAP1 | **RRAGAP1** | Ras related GTP binding | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462782 | gene-MEMO1P3 | **MEMO1P3** | mediator of cell motility 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462788 | gene-FTLP6 | **FTLP6** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462794 | gene-FTLP14 | **FTLP14** | ferritin light chain pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462795 | gene-H2AZP4 | **H2AZP4** | H2A.Z histone pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462797 | gene-FTH1P24 | **FTH1P24** | ferritin heavy chain 1 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462800 | gene-H2AZP6 | **H2AZP6** | H2A.Z histone pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462809 | gene-RSL24D1P8 | **RSL24D1P8** | ribosomal L24 domain co | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 100462810 | gene-RHOT1P3 | **RHOT1P3** | ras homolog family mem | pseudogene | 0 | 0 | 1 | 1 | 1.101 |
| 100462811 | gene-RHOT1P2 | **RHOT1P2** | ras homolog family mem | pseudogene | 0 | 0 | 1 | 1 | 0.917 |
| 100462824 | gene-EIF4A1P3 | **EIF4A1P3** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462825 | gene-ATP7BP1 | **ATP7BP1** | ATPase copper transport | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462826 | gene-EIF4A1P13 | **EIF4A1P13** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.048 |
| 100462836 | gene-EIF3EP3 | **EIF3EP3** | eukaryotic translation init | pseudogene | 0 | 1 | 1 | 2 | 1.145 |
| 100462838 | gene-ATP6V1G1P3 | **ATP6V1G1P3** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 0.965 |
| 100462844 | gene-ATP6V1E1P2 | **ATP6V1E1P2** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462862 | gene-ATP5MGP8 | **ATP5MGP8** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462866 | gene-ELOCP21 | **ELOCP21** | elongin C pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100462880 | gene-ELOCP19 | **ELOCP19** | elongin C pseudogene 1 | pseudogene | 2 | 1 | 3 | 2 | 0.778 |
| 100462953 | NR_051980 | **MICOS10P1** | MICOS10 pseudogene 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.044 |
| 100462954 | gene-MICOS10P3 | **MICOS10P3** | MICOS10 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.955 |
| 100462977 | NM_001190452 | **MTRNR2L1** | MT-RNR2 like 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100462981 | NM_001190470 | **MTRNR2L2** | MT-RNR2 like 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100462983 | NM_001190472 | **MTRNR2L3** | MT-RNR2 like 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100462985 | gene-HSPD1P16 | **HSPD1P16** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100462988 | gene-LOC10046298 | **LOC100462988** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100463285 | NM_001190476 | **MTRNR2L4** | MT-RNR2 like 4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100463289 | NM_001190478 | **MTRNR2L5** | MT-RNR2 like 5 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100463482 | NM_001190487 | **MTRNR2L6** | MT-RNR2 like 6 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100463486 | NM_001190702 | **MTRNR2L8** | MT-RNR2 like 8 | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 100463487 | NM_001190706 | **MTRNR2L9** | MT-RNR2 like 9 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100463488 | NM_001190708 | **MTRNR2L10** | MT-RNR2 like 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100498661 | gene-OSBPL9P4 | **OSBPL9P4** | oxysterol binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100498859 | NR_034008 | **LINC00881** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100499171 | NR_103814 | **LINC00276** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100499177 | NR_034075,NR_034 | **THAP9-AS1** | THAP9 antisense RNA 1 | lncRNA | 27 | 26 | 28 | 27 | 0.956 |
| 100499183 | NR_109954 | **BAALC-AS1** | BAALC antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.767 |
| 100499191 | gene-LOC10049919 | **LOC100499191** | MSL complex subunit 3 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499192 | gene-LOC10049919 | **LOC100499192** | MSL complex subunit 3 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499194 | NR_034130 | **LOC100499194** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100499223 | gene-LOC10049922 | **LOC100499223** | beta-1,3-N-acetylgalacto | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499227 | NR_034160 | **USP2-AS1** | USP2 antisense RNA 1 ( | lncRNA | 5 | 5 | 6 | 6 | 1.130 |
| 100499251 | gene-GMFBP1 | **GMFBP1** | glia maturation factor bet | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499252 | gene-ZBTB12BP | **ZBTB12BP** | zinc finger and BTB dom | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 100499259 | gene-CKS1BP4 | **CKS1BP4** | CDC28 protein kinase re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499399 | gene-LOC10049939 | **LOC100499399** | adenylate kinase 3 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499405 | NR_036466,NR_137 | **LINC00987** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.936 |
| 100499466 | NR_027418 | **LINC00674** | long intergenic non-prote | lncRNA | 9 | 8 | 10 | 9 | 0.916 |
| 100499467 | NR_036488,NR_137 | **LINC00673** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100499483 | NM_001348010,NM | **CCDC180** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 100499484 | NR_036526 | **SUGT1P4-STRA6LP** | SUGT1P4-STRA6LP rea | transcribed_pseu | 1 | 1 | 2 | 2 | 0.946 |
| 100499485 | gene-SRIP2 | **SRIP2** | sorcin pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100499489 | NR_036533 | **LOC100499489** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.013 |
| 100499497 | gene-LOC10049949 | **LOC100499497** | matrin 3 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 100499563 | gene-PTP4A1P2 | **PTP4A1P2** | PTP4A1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100500719 | gene-LOC10050071 | **LOC100500719** | HPS1, biogenesis of lysc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100500773 | NR_036611 | **SRSF3P2** | SRSF3 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100500801 | NR_037432,ma-MIF | **MIR3659** | microRNA 3659 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500802 | NR_037456,ma-MIF | **MIR3685** | microRNA 3685 | miRNA | 1 | 2 | 2 | 3 | 1.851 |
| 100500803 | NR_037483,ma-MIF | **MIR3919** | microRNA 3919 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500804 | NR_037427,ma-MIF | **MIR3654** | hsa-miR-3654 | . | 0 | 0 | 1 | 1 | 1.001 |
| 100500807 | NR_037511,ma-MIF | **MIR374C** | microRNA 374c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500808 | NR_037481,ma-MIF | **MIR3917** | microRNA 3917 | miRNA | 4 | 6 | 5 | 7 | 1.417 |
| 100500809 | NR_037414,ma-MIF | **MIR23C** | microRNA 23c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500810 | NR_037415,ma-MIF | **MIR3620** | microRNA 3620 | miRNA | 0 | 1 | 1 | 2 | 1.148 |
| 100500811 | NR_037416,ma-MIF | **MIR3621** | microRNA 3621 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500812 | NR_037448,ma-MIF | **MIR3677** | microRNA 3677 | miRNA | 0 | 1 | 1 | 2 | 1.796 |
| 100500813 | NR_037419,ma-MIF | **MIR3646** | microRNA 3646 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500814 | NR_037410,ma-MIF | **MIR3616** | microRNA 3616 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500816 | NR_037422,ma-MIF | **MIR3649** | microRNA 3649 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500817 | NR_037406,ma-MIF | **MIR3612** | microRNA 3612 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500818 | NR_037510,ma-MIF | **MIR3945** | microRNA 3945 | miRNA | 1 | 0 | 2 | 1 | 0.826 |
| 100500819 | NR_037403,ma-MIF | **MIR3609** | microRNA 3609 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500820 | NR_037428,ma-MIF | **MIR3655** | hsa-miR-3655 | . | 0 | 0 | 1 | 1 | 0.997 |
| 100500821 | NR_037472,ma-MIF | **MIR3910-1** | microRNA 3910-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500822 | NR_037501,ma-MIF | **MIR3937** | microRNA 3937 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500823 | NR_037485,ma-MIF | **MIR3920** | microRNA 3920 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500824 | NR_037423,ma-MIF | **MIR3650** | microRNA 3650 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500825 | NR_037433,ma-MIF | **MIR3660** | microRNA 3660 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500826 | NR_037471,ma-MIF | **MIR3909** | microRNA 3909 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500827 | NR_037408,ma-MIF | **MIR3614** | microRNA 3614 | miRNA | 0 | 0 | 1 | 1 | 0.999 |
| 100500828 | NR_037413,ma-MIF | **MIR3619** | microRNA 3619 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500829 | NR_037508,ma-MIF | **MIR3943** | microRNA 3943 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500830 | NR_037514,ma-MIF | **MIR550B2** | microRNA 550b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500831 | NR_037474,ma-MIF | **MIR3912** | microRNA 3912 | miRNA | 0 | 0 | 1 | 1 | 1.033 |
| 100500832 | NR_037431,ma-MIF | **MIR3658** | microRNA 3658 | miRNA | 0 | 0 | 1 | 1 | 1.004 |
| 100500834 | NR_037490,ma-MIF | **MIR3924** | microRNA 3924 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500835 | NR_037468,ma-MIF | **MIR3907** | microRNA 3907 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500836 | NR_037477,ma-MIF | **MIR3914-1** | microRNA 3914-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500837 | NR_037401,ma-MIF | **MIR3606** | microRNA 3606 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500838 | NR_037495,ma-MIF | **MIR3926-2** | microRNA 3926-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100500839 | NR_037457,rna-MIF | **MIR3686** | microRNA 3686 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500841 | NR_037449,rna-MIF | **MIR3678** | microRNA 3678 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500842 | NR_037425,rna-MIF | **MIR3652** | hsa-miR-3652 | . | 0 | 0 | 1 | 1 | 1.001 |
| 100500843 | NR_037487,rna-MIF | **MIR3922** | microRNA 3922 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500844 | NR_037437,rna-MIF | **MIR3664** | microRNA 3664 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500845 | NR_037512,rna-MIF | **MIR642B** | microRNA 642b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500846 | NR_037460,rna-MIF | **MIR3689A** | microRNA 3689a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500847 | NR_037409,rna-MIF | **MIR3615** | microRNA 3615 | miRNA | 1 | 0 | 2 | 1 | 0.493 |
| 100500849 | NR_037480,rna-MIF | **MIR3916** | microRNA 3916 | miRNA | 20 | 15 | 21 | 16 | 0.772 |
| 100500850 | NR_037453,rna-MIF | **MIR3682** | microRNA 3682 | miRNA | 0 | 2 | 1 | 3 | 1.791 |
| 100500851 | NR_037482,rna-MIF | **MIR3918** | microRNA 3918 | miRNA | 0 | 0 | 1 | 1 | 1.004 |
| 100500852 | NR_037466,rna-MIF | **MIR3180-4** | microRNA 3180-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500853 | NR_037400,rna-MIF | **MIR3605** | microRNA 3605 | miRNA | 0 | 0 | 1 | 1 | 0.781 |
| 100500854 | NR_037443,rna-MIF | **MIR3671** | microRNA 3671 | miRNA | 0 | 0 | 1 | 1 | 0.862 |
| 100500855 | NR_037464,rna-MIF | **MIR3713** | hsa-miR-3713 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100500856 | NR_037515,rna-MIF | **MIR548Z** | microRNA 548z | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500857 | NR_037504,rna-MIF | **MIR3939** | microRNA 3939 | miRNA | 1 | 0 | 2 | 1 | 0.488 |
| 100500858 | NR_037417,rna-MIF | **MIR3622A** | microRNA 3622a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500859 | NR_037486,rna-MIF | **MIR3921** | microRNA 3921 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500860 | NR_037412,rna-MIF | **MIR3618** | microRNA 3618 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500861 | NR_037438,rna-MIF | **MIR3665** | microRNA 3665 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500862 | NR_037421,rna-MIF | **MIR3648-1** | microRNA 3648-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500863 | NR_037516,rna-MIF | **MIR548AA1** | microRNA 548aa-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500864 | NR_037497,rna-MIF | **MIR3929** | hsa-miR-3929 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100500865 | NR_037500,rna-MIF | **MIR3936** | microRNA 3936 | miRNA | 1 | 0 | 2 | 1 | 0.696 |
| 100500866 | NR_037506,rna-MIF | **MIR3941** | microRNA 3941 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500867 | NR_037455,rna-MIF | **MIR3684** | microRNA 3684 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500868 | NR_037476,rna-MIF | **MIR3913-2** | microRNA 3913-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500869 | NR_037444,rna-MIF | **MIR3672** | microRNA 3672 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500870 | NR_037492,rna-MIF | **MIR3926-1** | microRNA 3926-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500871 | NR_037418,rna-MIF | **MIR3622B** | microRNA 3622b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500872 | NR_037473,rna-MIF | **MIR3911** | microRNA 3911 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500873 | NR_037498,rna-MIF | **MIR3934** | microRNA 3934 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500875 | NR_037502,rna-MIF | **MIR3938** | microRNA 3938 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500876 | NR_037446,rna-MIF | **MIR3675** | microRNA 3675 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500877 | NR_037488,rna-MIF | **MIR3923** | microRNA 3923 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500878 | NR_037450,rna-MIF | **MIR3679** | microRNA 3679 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500879 | NR_037441,rna-MIF | **MIR3668** | microRNA 3668 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500880 | NR_037435,rna-MIF | **MIR3662** | microRNA 3662 | miRNA | 0 | 1 | 1 | 2 | 1.510 |
| 100500881 | NR_037459,rna-MIF | **MIR3688-1** | microRNA 3688-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500882 | NR_037440,rna-MIF | **MIR3667** | microRNA 3667 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500883 | NR_037513,rna-MIF | **MIR550B1** | microRNA 550b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500884 | NR_037452,rna-MIF | **MIR3681** | microRNA 3681 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500885 | NR_037491,rna-MIF | **MIR3925** | microRNA 3925 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500886 | NR_037454,rna-MIF | **MIR3683** | microRNA 3683 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500887 | NR_037494,rna-MIF | **MIR676** | microRNA 676 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500888 | NR_037505,rna-MIF | **MIR3940** | microRNA 3940 | miRNA | 1 | 0 | 2 | 1 | 0.621 |
| 100500889 | NR_037430,rna-MIF | **MIR3657** | microRNA 3657 | miRNA | 0 | 0 | 1 | 1 | 1.030 |
| 100500890 | NR_037405,rna-MIF | **MIR3611** | microRNA 3611 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500891 | NR_037499,rna-MIF | **MIR3935** | microRNA 3935 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500893 | NR_037436,rna-MIF | **MIR3663** | microRNA 3663 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500894 | NR_037461,NR_037 | **MIR3690** | microRNA 3690 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500895 | NR_037517,rna-MIF | **MIR548AA2** | microRNA 548aa-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500896 | NR_037439,rna-MIF | **MIR3666** | microRNA 3666 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500897 | NR_037411,rna-MIF | **MIR3617** | microRNA 3617 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500898 | NR_037493,rna-MIF | **MIR3927** | microRNA 3927 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500899 | NR_037463,rna-MIF | **MIR3692** | microRNA 3692 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500900 | NR_037462,rna-MIF | **MIR3691** | microRNA 3691 | miRNA | 0 | 0 | 1 | 1 | 1.458 |
| 100500901 | NR_037496,rna-MIF | **MIR3928** | hsa-miR-3928-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100500902 | NR_037489,rna-MIF | **MIR3910-2** | microRNA 3910-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500903 | NR_037475,rna-MIF | **MIR3913-1** | microRNA 3913-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500904 | NR_037507,rna-MIF | **MIR3942** | microRNA 3942 | miRNA | 0 | 0 | 1 | 1 | 1.011 |
| 100500905 | NR_037434,rna-MIF | **MIR3661** | microRNA 3661 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500906 | NR_037469,rna-MIF | **MIR3689B** | microRNA 3689b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500907 | NR_037484,rna-MIF | **MIR3150B** | microRNA 3150b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500908 | NR_037407,rna-MIF | **MIR3613** | microRNA 3613 | miRNA | 1 | 0 | 2 | 1 | 0.629 |
| 100500909 | NR_037470,rna-MIF | **MIR3908** | microRNA 3908 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500910 | NR_037442,rna-MIF | **MIR3670-1** | microRNA 3670-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500911 | NR_037509,rna-MIF | **MIR3944** | microRNA 3944 | miRNA | 0 | 0 | 1 | 1 | 1.289 |
| 100500912 | NR_037445,rna-MIF | **MIR3674** | microRNA 3674 | miRNA | 1 | 0 | 2 | 1 | 0.969 |
| 100500913 | NR_037465,rna-MIF | **MIR3714** | hsa-miR-3714 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100500914 | NR_037404,rna-MIF | **MIR3610** | microRNA 3610 | miRNA | 0 | 0 | 1 | 1 | 0.769 |
| 100500915 | NR_037478,rna-MIF | **MIR3915** | microRNA 3915 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500916 | NR_037467,rna-MIF | **MIR3180-5** | microRNA 3180-5 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500917 | NR_037451,rna-MIF | **MIR3680-1** | microRNA 3680-1 | miRNA | 0 | 0 | 1 | 1 | 0.833 |
| 100500918 | NR_037424,rna-MIF | **MIR3651** | microRNA 3651 | miRNA | 0 | 0 | 1 | 1 | 0.878 |
| 100500919 | NR_037503,rna-MIF | **MIR548Y** | microRNA 548y | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500920 | NR_037479,rna-MIF | **MIR3914-2** | microRNA 3914-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100500934 | gene-RBX1P2 | **RBX1P2** | RBX1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 0.889 |
| 100500938 | NM_001195637,XM | **CCDC179** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100502572 | gene-LOC10050257 | **LOC100502572** | chromosome 5 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505385 | NM_001197113,NM | **IQCJ-SCHIP1** | IQCJ-SCHIP1 readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.018 |
| 100505474 | NR_040025,NR_04 | **LINC01539** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505475 | NR_120501 | **SYNE1-AS1** | SYNE1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505477 | NR_130934 | **LINC01602** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505478 | NM_001199233,NM | **TEX48** | testis expressed 48 | protein_coding | 2 | 4 | 3 | 5 | 1.351 |
| 100505483 | NR_038926 | **PRKAG2-AS1** | PRKAG2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505495 | NR_040109,NR_13 | **PCAT19** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 100505498 | XR_923410 | **LOC100505498** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505501 | NR_149030,NR_14 | **LOC100505501** | uncharacterized LOC100 | lncRNA | 9 | 8 | 10 | 9 | 0.948 |
| 100505502 | NM_001368169 | **LOC100505502** | putative UPF0607 protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100505506 | gene-BANF1P3 | **BANF1P3** | BANF1 pseudogene 3 | pseudogene | 12 | 15 | 13 | 16 | 1.200 |
| 100505515 | NR_109870 | **LINC01723** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505518 | NR_103853 | **EDNRB-AS1** | EDNRB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 100505524 | gene-LOC10050552 | **LOC100505524** | chromosome 5 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505530 | NR_126057 | **LINC02520** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505532 | NR_103854 | **LINC01301** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.941 |
| 100505534 | XR_109178,XR_429 | **GPR176-DT** | GPR176-DT, transcript v | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505536 | NR_040043 | **ISM1-AS1** | ISM1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505538 | NR_038991 | **RBM26-AS1** | RBM26 antisense RNA 1 | lncRNA | 6 | 7 | 7 | 8 | 1.109 |
| 100505540 | NR_038330 | **SLIT1-AS1** | SLIT1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505545 | NR_038331 | **LINC01095** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505547 | NR_109968 | **LINC01208** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505549 | NR_164148 | **LOC100505549** | uncharacterized LOC100 | lncRNA | 6 | 6 | 7 | 7 | 0.904 |
| 100505555 | NR_148545 | **LOC100505555** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505557 | gene-GSTM5P1 | **GSTM5P1** | glutathione S-transferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505561 | NR_108035 | **LINC00866** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505566 | NR_047568 | **LINC00578** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505570 | XR_930978 | **LINC02708** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505573 | NM_001301268,XM | **INAFM2** | InaF motif containing 2 | protein_coding | 11 | 10 | 12 | 11 | 0.936 |
| 100505576 | NR_038847 | **LINC00672** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.875 |
| 100505583 | NR_038932 | **LINC00838** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505585 | NR_135626 | **LOC100505585** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505588 | NR_135129 | **LOC100505588** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505591 | NM_001195545,XM | **LRRC3C** | leucine rich repeat conta | protein_coding | 1 | 0 | 2 | 1 | 0.920 |
| 100505592 | NR_110428,NR_11 | **GAPLINC** | gastric adenocarcinoma | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505601 | NR_108043 | **PARD3-AS1** | PARD3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505609 | NR_132416 | **LINC02053** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505616 | NR_110096,NR_11 | **SNHG21** | small nucleolar RNA hos | lncRNA | 19 | 20 | 20 | 21 | 1.049 |
| 100505619 | NR_038233 | **LINC00919** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505621 | NR_130935 | **C11orf72** | chromosome 11 putative | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 100505622 | NR_038332 | **LOC100505622** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.829 |
| 100505624 | NR_038427 | **GTF3C2-AS1** | GTF3C2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505625 | NR_103771 | **LINC02102** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505633 | NR_038849 | **LINC01133** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505635 | NR_125831 | **DAAM2-AS1** | DAAM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100505636 | NR_102739,NR_10 | **MALINC1** | mitosis associated long i | lncRNA | 1 | 2 | 2 | 3 | 1.155 |
| 100505641 | NR_046251,NR_04 | **FGD5-AS1** | FGD5 antisense RNA 1 | lncRNA | 47 | 43 | 48 | 44 | 0.921 |
| 100505642 | gene-LOC10050564 | **LOC100505642** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505648 | NR_040058 | **RAD51-AS1** | RAD51 antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 1.019 |
| 100505658 | NR_038333 | **DIAPH1-AS1** | DIAPH1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505659 | NR_039979 | **LINC00967** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505663 | NR_109936,NR_10 | **LINC01370** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505664 | XR_001754548,XR_ | **LOC100505664** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505666 | NR_040772,NR_04 | **DCST1-AS1** | DCST1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.856 |
| 100505676 | NR_040434 | **RRS1-AS1** | RRS1 antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 100505678 | NR_040093 | **STARD4-AS1** | STARD4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.057 |
| 100505679 | NR_166151 | **UBE2Q2L** | ubiquitin conjugating en | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100505681 | NR_038452 | **NAPA-AS1** | NAPA antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 0.883 |
| 100505683 | NR_109884 | **LINC01431** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.228 |
| 100505685 | XR_427616 | **LOC100505685** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505687 | NR_038301,NR_03 | **LINC00888** | long intergenic non-prote | lncRNA | 24 | 24 | 25 | 25 | 1.027 |
| 100505690 | gene-TXN2P1 | **TXN2P1** | TXN2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.995 |
| 100505692 | NR_103838 | **FTO-IT1** | FTO intronic transcript 1 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 100505696 | NR_046084 | **SH3BP5-AS1** | SH3BP5 antisense RNA | lncRNA | 1 | 2 | 2 | 3 | 1.364 |
| 100505702 | NR_038303,NR_03 | **LINC01094** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505704 | gene-ATP5MC1P6 | **ATP5MC1P6** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505711 | XR_002956399,XR_ | **LOC100505711** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505715 | NR_038334 | **LOC100505715** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505716 | NR_038319 | **LOC100505716** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505718 | NR_039986 | **LINC01592** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505724 | NM_001277332 | **KRTAP9-7** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100505728 | XR_922172 | **LOC100505728** | uncharacterized LOC100 | misc_RNA | 2 | 2 | 3 | 3 | 1.048 |
| 100505736 | NR_120504 | **LOC100505736** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505738 | NR_039989 | **MIR4458HG** | MIR4458 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505739 | NR_110433 | **LINC01603** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505741 | NM_001310156,XM | **SPATA1** | spermatogenesis associa | protein_coding | 0 | 1 | 1 | 2 | 1.059 |
| 100505746 | NR_038311,NR_03 | **ITGB2-AS1** | ITGB2 antisense RNA 1 | lncRNA | 14 | 16 | 15 | 17 | 1.128 |
| 100505753 | NM_001146182 | **KRTAP16-1** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 0.942 |
| 100505758 | NR_120599,NR_12 | **PRMT5-AS1** | PRMT5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505761 | NR_038937,NR_03 | **RPARP-AS1** | RPARP antisense RNA 1 | lncRNA | 19 | 23 | 20 | 24 | 1.208 |
| 100505767 | NM_001351348 | **SPDYE18** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 0.827 |
| 100505768 | NR_038324 | **LINC01364** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505771 | NR_132417,NR_13 | **MHENCR** | melanoma highly expres | lncRNA | 12 | 13 | 13 | 14 | 1.032 |
| 100505774 | NR_145832 | **LOC100505774** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505776 | NR_038325,NR_03 | **LINC01541** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505782 | NR_040111 | **LOC100505782** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505783 | NR_038337,NR_03 | **OSER1-DT** | OSER1 divergent transcr | lncRNA | 2 | 3 | 3 | 4 | 1.257 |
| 100505785 | NR_145471 | **KIRREL1-IT1** | KIRREL1 intronic transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505788 | gene-LOC10050578 | **LOC100505788** | NDUFA4 mitochondrial c | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505795 | NR_038072 | **PBX1-AS1** | PBX1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505796 | gene-LOC10050579 | **LOC100505796** | IMPACT pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505797 | NR_134647,NR_13 | **LOC100505797** | myosin heavy chain IB-lik | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505806 | NR_045196 | **SNHG18** | small nucleolar RNA hos | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505811 | NR_104609 | **LINC02148** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505812 | NR_040599 | **CARD8-AS1** | CARD8 antisense RNA 1 | lncRNA | 23 | 23 | 24 | 24 | 0.976 |
| 100505817 | NR_038340 | **LINC02582** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505824 | NR_135559 | **LINC02805** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505826 | NR_038341 | **STK4-AS1** | STK4 antisense RNA 1 (l | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 100505832 | NR_037850 | **PROX1-AS1** | PROX1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505835 | NR_040036 | **LINC01532** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505839 | NR_038940 | **SH3PXD2A-AS1** | SH3PXD2A antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505841 | NM_001195535,XM | **LOC100505841** | zinc finger protein 474-lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100505845 | NR_102746 | **ROPN1L-AS1** | ROPN1L antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505851 | NR_149007 | **LOC100505851** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505853 | NR_134646 | **LINC01898** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505854 | NR_038361,NR_13 | **APTR** | Alu-mediated CDKN1A/p | lncRNA | 21 | 23 | 22 | 24 | 1.053 |
| 100505855 | gene-EIF1P1 | **EIF1P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.011 |
| 100505865 | NR_046242 | **LINC00920** | long intergenic non-prote | lncRNA | 4 | 5 | 5 | 6 | 1.206 |
| 100505869 | NR_108036 | **CFAP58-DT** | CFAP58 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.057 |
| 100505875 | NR_038342 | **LINC01088** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505876 | NM_001322373,NM | **CEBPZOS** | CEBPZ opposite strand | protein_coding | 33 | 29 | 34 | 30 | 0.892 |
| 100505877 | NR_136176,NR_13 | **UBE2E2-AS1** | UBE2E2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505878 | NR_105017 | **LINC02059** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505879 | NR_103750 | **KIF25-AS1** | KIF25 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505881 | NR_038343,NR_03 | **MAGI2-AS3** | MAGI2 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505887 | NR_104620,NR_10 | **LINC01672** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505890 | NR_104028 | **SORCS3-AS1** | SORCS3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505892 | gene-CCNB1IP1P2 | **CCNB1IP1P2** | cyclin B1 interacting prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505893 | NR_037876 | **SLIT2-IT1** | SLIT2 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505894 | NR_039993,NR_03 | **TMEM161B-AS1** | TMEM161B antisense RN | lncRNA | 10 | 8 | 11 | 9 | 0.811 |
| 100505909 | XR_933966 | **LOC100505909** | histidine-rich glycoprotein | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505912 | NR_037877 | **LOC100505912** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505915 | NR_125434 | **LOC100505915** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 100505918 | NR_037851 | **LOC100505918** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505920 | NR_125403,NR_12 | **LINC02036** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505921 | NR_110018 | **GLCCI1-DT** | GLCCI1 divergent transc | lncRNA | 1 | 0 | 2 | 1 | 0.822 |
| 100505929 | NR_037585,NR_03 | **LINC01549** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505933 | NR_038943 | **ADD3-AS1** | ADD3 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.774 |
| 100505938 | NR_125740 | **LOC100505938** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505942 | NR_104656 | **LOC100505942** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505945 | gene-BTF3L4P1 | **BTF3L4P1** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 100505948 | XR_110136 | **LINC02184** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505964 | NR_037881 | **LINC01304** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505967 | NR_039992 | **LINC00645** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505975 | NR_038351 | **ENO1-AS1** | ENO1 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.467 |
| 100505978 | NR_038912 | **LOC100505978** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505982 | gene-UBE2V1P13 | **UBE2V1P13** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505984 | NR_103775 | **LINC02478** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505985 | XR_108661 | **LOC100505985** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100505989 | NM_001352885 | **SMIM31** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100505993 | NM_001282477 | **TMEM210** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100505994 | NR_103548,NR_10 | **LUCAT1** | lung cancer associated t | lncRNA | 23 | 19 | 24 | 20 | 0.816 |
| 100505995 | gene-LOC10050599 | **LOC100505995** | apoptosis-inducing, TAF | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100505996 | NR_120392,NR_12 | **SOX1-OT** | SOX1 overlapping transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506000 | gene-HSPE1P5 | **HSPE1P5** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506007 | NR_110434,NR_11 | **RTCA-AS1** | RTCA antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.157 |
| 100506012 | NM_001205281,NM | **PPP5D1** | PPP5 tetratricopeptide re | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 100506013 | NM_001297550,XM | **APELA** | apelin receptor early end | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506016 | NR_134944 | **LOC100506016** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506020 | NR_146780 | **ARAP1-AS2** | ARAP1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506022 | NR_104622,NR_10 | **LINC02606** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.235 |
| 100506023 | NR_037845 | **LOC100506023** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 100506025 | NR_038946,NR_03 | **CRPPA-AS1** | CRPPA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506033 | NR_040037 | **PTOV1-AS1** | PTOV1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506035 | NR_038826 | **LINC00989** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506036 | NR_149141 | **CNNM3-DT** | CNNM3 divergent transc | lncRNA | 1 | 0 | 2 | 1 | 0.752 |
| 100506039 | gene-HMGB3P8 | **HMGB3P8** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506046 | NR_037605 | **GAS5-AS1** | GAS5 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.596 |
| 100506047 | NR_151714 | **LINC02580** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.838 |
| 100506049 | NM_001195280,XM | **LRRC72** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506050 | NR_039987 | **LINC01005** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506054 | NR_038429,NR_03 | **RNASEH1-AS1** | RNASEH1 antisense RN | lncRNA | 36 | 30 | 37 | 31 | 0.826 |
| 100506055 | gene-MXRA7P1 | **MXRA7P1** | MXRA7 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506058 | gene-EIF5A2P1 | **EIF5A2P1** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506060 | NR_033959 | **SMG1P7** | SMG1 pseudogene 7 | transcribed_pseu | 1 | 2 | 2 | 3 | 1.216 |
| 100506061 | gene-BTF3L4P4 | **BTF3L4P4** | basic transcription factor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506068 | NR_040041,NR_04 | **DACT3-AS1** | DACT3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506070 | NR_103445 | **RBFADN** | RBFA downstream neigh | lncRNA | 0 | 1 | 1 | 2 | 1.594 |
| 100506071 | NR_038356 | **LOC100506071** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506076 | NR_103732,NR_10 | **LOC100506076** | uncharacterized LOC100 | lncRNA | 2 | 1 | 3 | 2 | 0.885 |
| 100506082 | NR_047550 | **LINC02749** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.632 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100506083 | NR_039997 | **LOC100506083** | uncharacterized LOC100 | lncRNA | 2 | 4 | 3 | 5 | 1.400 |
| 100506084 | NM_001039083,NM | **ARL17B** | ADP ribosylation factor li | protein_coding | 17 | 13 | 18 | 14 | 0.792 |
| 100506085 | NR_037878 | **LINC02275** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506098 | NR_134567,NR_13 | **LOC100506098** | uncharacterized LOC100 | lncRNA | 3 | 3 | 4 | 4 | 1.198 |
| 100506100 | NR_046240 | **LOC100506100** | uncharacterized LOC100 | lncRNA | 9 | 8 | 10 | 9 | 0.845 |
| 100506107 | NR_134683 | **LINC02382** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506108 | NR_103785,NR_10 | **SIX3-AS1** | SIX3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506113 | NR_144531 | **UVRAG-DT** | UVRAG divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.147 |
| 100506115 | NM_001278655,XM | **PELATON** | plaque enriched lncRNA | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 100506119 | NR_120685,NR_12 | **LINC01503** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506122 | NR_038838 | **LINC02431** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506123 | NR_130704 | **LOC100506123** | uncharacterized LOC100 | lncRNA | 2 | 1 | 3 | 2 | 0.875 |
| 100506124 | NR_045375 | **LOC100506124** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.241 |
| 100506125 | NR_110019,NR_11 | **ADCY6-DT** | ADCY6 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506126 | NR_108045 | **LINC00867** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506127 | NM_001282456,NM | **GVQW3** | GVQW motif containing | protein_coding | 5 | 5 | 6 | 6 | 1.008 |
| 100506133 | gene-LOC1005061 | **LOC100506133** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506134 | NR_038983,NR_03 | **TTC21B-AS1** | TTC21B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506142 | NR_104182 | **RHOQ-AS1** | RHOQ antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.065 |
| 100506144 | NM_001195156 | **TMEM35B** | transmembrane protein | protein_coding | 42 | 39 | 43 | 40 | 0.931 |
| 100506157 | NR_151701 | **SRP54-AS1** | SRP54 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.513 |
| 100506159 | NR_104634 | **LINC02470** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506161 | NR_110613,NR_11 | **TAF1A-AS1** | TAF1A antisense RNA 1 | lncRNA | 1 | 3 | 2 | 4 | 1.793 |
| 100506164 | NM_016153 | **HSFX1** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.174 |
| 100506172 | NR_038234 | **LINC01568** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506175 | NR_111906 | **RIPOR3-AS1** | RIPOR3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506178 | NR_038393 | **LOC100506178** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.890 |
| 100506188 | NR_109774 | **LOC100506188** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506190 | NR_038955 | **LINC00963** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506195 | NR_038949,NR_03 | **LARGE-AS1** | LARGE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506205 | gene-TMEM185AP1 | **TMEM185AP1** | transmembrane protein 1 | pseudogene | 4 | 3 | 5 | 4 | 0.879 |
| 100506207 | NR_038979,NR_03 | **LOC100506207** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.587 |
| 100506211 | NR_038262 | **MIR210HG** | MIR210 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506215 | NR_038879,NR_03 | **PAXBP1-AS1** | PAXBP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.190 |
| 100506229 | NR_039975,NR_03 | **LINC01093** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506233 | NR_038903 | **RAB30-DT** | RAB30 divergent transcri | lncRNA | 26 | 29 | 27 | 30 | 1.102 |
| 100506235 | XR_245000 | **LOC100506235** | uncharacterized LOC100 | lncRNA | 0 | 1 | 1 | 2 | 1.125 |
| 100506236 | XR_108752,XR_927 | **LOC100506236** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506237 | NR_103710 | **NKX2-1-AS1** | NKX2-1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506241 | NR_038954 | **LL22NC01-81G9.3** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506243 | NM_001205272 | **KRBOX1** | KRAB box domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506244 | gene-SUMO2P8 | **SUMO2P8** | SUMO2 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506246 | gene-REXO1L9P | **REXO1L9P** | REXO1 like 9, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506253 | XR_109812 | **LOC100506253** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.327 |
| 100506258 | NR_103855 | **LOC100506258** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506271 | NR_110515 | **LOC100506271** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506272 | NR_110436 | **LINC02492** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506274 | NR_038432 | **LOC100506274** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506275 | NR_122033 | **KRBOX1-AS1** | KRBOX1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506281 | NR_109777 | **LOC100506281** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506282 | NR_149008,NR_14 | **LOC100506282** | uncharacterized LOC100 | lncRNA | 8 | 7 | 9 | 8 | 0.928 |
| 100506286 | NR_135594 | **TBC1D8-AS1** | TBC1D8 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506289 | XR_001745152,XR_ | **LOC100506289** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506299 | NR_110153,NR_11 | **ID2-AS1** | ID2 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.768 |
| 100506302 | NR_126344 | **LOC100506302** | uncharacterized LOC100 | lncRNA | 19 | 19 | 20 | 20 | 0.992 |
| 100506305 | NR_038904 | **LINC00958** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506311 | NR_038366,NR_03 | **HOTAIRM1** | HOXA transcript antisens | lncRNA | 7 | 5 | 8 | 6 | 0.782 |
| 100506314 | NR_038920,NR_14 | **GPRC5D-AS1** | GPRC5D and HEBP1 an | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506317 | XR_108389,XR_426 | **LOC100506317** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506319 | NR_144436 | **LINC01988** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506321 | NR_045122 | **LOC100506321** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506325 | NR_103856,NR_10 | **SP2-AS1** | SP2 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.227 |
| 100506328 | NR_103791 | **LINC01127** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506330 | gene-WBP1LP2 | **WBP1LP2** | WBP1L pseudogene 2 | pseudogene | 3 | 2 | 4 | 3 | 0.783 |
| 100506334 | NR_038883,NR_13 | **LINC00649** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 100506343 | NR_038951,NR_03 | **INKA2-AS1** | INKA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 100506356 | NR_144459 | **ARSD-AS1** | ARSD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506358 | NR_149012 | **LOC100506358** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506365 | NR_110438,NR_11 | **OTUD6B-AS1** | OTUD6B antisense RNA | lncRNA | 52 | 41 | 53 | 42 | 0.795 |
| 100506368 | NR_038905 | **FZD4-DT** | FZD4 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506371 | NR_104420 | **LINC02091** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506374 | NM_001354658 | **EDDM13** | epididymal protein 13 | protein_coding | 0 | 0 | 1 | 1 | 0.833 |
| 100506376 | XR_132470,XR_946 | **TTLL10-AS1** | TTLL10 antisense RNA 1 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506380 | NR_026865,NR_10 | **LINC01006** | long intergenic non-prote | lncRNA | 5 | 6 | 6 | 7 | 1.202 |
| 100506384 | NR_040513 | **PHACTR3-AS1** | PHACTR3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506385 | NR_038885,NR_03 | **LINC01426** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.894 |
| 100506388 | NR_040011,NR_16 | **LOC100506388** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506390 | gene-RAP1BP1 | **RAP1BP1** | RAP1B, member of RAS | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506392 | NR_103743,NR_10 | **SLC16A1-AS1** | SLC16A1 antisense RNA | lncRNA | 11 | 9 | 12 | 10 | 0.795 |
| 100506393 | NR_040098 | **LINC02398** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506394 | NR_044993 | **GAS6-DT** | GAS6 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506403 | NR_073512 | **LOC100506403** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506405 | XR_108393 | **LOC100506405** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506406 | NR_104630 | **LOC100506406** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506409 | NR_038962,NR_03 | **ELOVL2-AS1** | ELOVL2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506411 | XR_001750801,XR_ | **LOC100506411** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.209 |
| 100506412 | NR_102699,NR_10 | **LINC00871** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506413 | NR_103806 | **DOCK4-AS1** | DOCK4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506421 | NR_037883,NR_13 | **PANTR1** | POU3F3 adjacent non-co | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506422 | NM_001004352,XM | **LOC100506422** | putative deoxyuridine 5'-t | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506424 | gene-UBE2L2 | **UBE2L2** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.142 |
| 100506428 | NR_038892,NR_03 | **CBR3-AS1** | CBR3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506433 | NR_039996 | **LINC00648** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506436 | NR_040012 | **SPAG5-AS1** | SPAG5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.844 |
| 100506443 | NR_103784 | **ITPKB-IT1** | ITPKB intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506444 | NR_125918 | **LOC100506444** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506446 | XR_001750961 | **LOC100506446** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506451 | NR_038227,NR_03 | **RASSF8-AS1** | RASSF8 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506457 | NR_110196,NR_11 | **MIR3681HG** | MIR3681 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506462 | NR_037969 | **SRD5A3-AS1** | SRD5A3 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.042 |
| 100506465 | NR_110025,NR_11 | **LINC01234** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506469 | NR_038396 | **TMEM147-AS1** | TMEM147 antisense RNA | lncRNA | 26 | 22 | 27 | 23 | 0.844 |
| 100506470 | NR_109919 | **LINC01718** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506472 | NR_040535 | **LOC100506472** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.101 |
| 100506473 | XR_427149 | **LOC100506473** | uncharacterized LOC100 | lncRNA | 4 | 3 | 5 | 4 | 0.890 |
| 100506474 | NR_038434 | **LOC100506474** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506475 | NR_102749,NR_10 | **EGFLAM-AS2** | EGFLAM antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506476 | NR_109995 | **LOC100506476** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 100506489 | XR_108799 | **LOC100506489** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506492 | NR_038896,NR_03 | **DSCAM-AS1** | DSCAM antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506495 | NR_103553,NR_10 | **LIFR-AS1** | LIFR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506497 | NR_038965 | **LOC100506497** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506498 | NR_135238 | **LINC02274** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.173 |
| 100506504 | NR_146290 | **PRKCZ-AS1** | PRKCZ antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 100506506 | NR_144461 | **MORC1-AS1** | MORC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506514 | XM_017008899,XM | **LOC100506514** | uncharacterized LOC100 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506516 | NR_108081 | **LINC01176** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.584 |
| 100506526 | NR_105000 | **C5orf64-AS1** | C5orf64 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506527 | NR_103747,NR_10 | **LINC01007** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506530 | NR_146448 | **LINC02349** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506532 | XR_109854,XR_930 | **LOC100506532** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506540 | NM_001355570,NR | **SPTY2D1OS** | SPTY2D1 opposite stran | protein_coding | 0 | 1 | 1 | 2 | 2.173 |
| 100506542 | NR_103859 | **LINC01082** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506544 | NR_148200 | **L3MBTL2-AS1** | L3MBTL2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506551 | NR_103809 | **LOC100506551** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506555 | NR_045114 | **NECTIN3-AS1** | NECTIN3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100506563 | XR_001739113 | **LOC100506563** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506564 | NM_001256475,XM | **THEGL** | theg spermatid protein lil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506569 | gene-SRSF3P1 | **SRSF3P1** | SRSF3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 100506571 | NR_158166 | **LINC02809** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 100506574 | gene-SNRPGP9 | **SNRPGP9** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506576 | gene-LOC10050657 | **LOC100506576** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506578 | gene-LOC10050657 | **LOC100506578** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506581 | NM_001195124,NM | **C16orf95** | chromosome 16 open rea | protein_coding | 6 | 7 | 7 | 8 | 1.066 |
| 100506585 | NR_038966 | **PTPRN2-AS1** | PTPRN2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506595 | gene-HMGB1P40 | **HMGB1P40** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506599 | NR_038969 | **PPP1R26-AS1** | PPP1R26 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506603 | NR_104183,NR_10 | **VASH1-AS1** | VASH1 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.103 |
| 100506606 | NR_103860 | **LOC100506606** | uncharacterized LOC100 | lncRNA | 2 | 1 | 3 | 2 | 0.911 |
| 100506622 | NR_103810 | **LINC00540** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506633 | gene-LOC10050663 | **LOC100506633** | ubiquitin fold modifier 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506637 | NR_109996,NR_109 | **PRKAR2A-AS1** | PRKAR2A antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.991 |
| 100506639 | NR_102752 | **LOC100506639** | uncharacterized LOC100 | lncRNA | 5 | 4 | 6 | 5 | 0.791 |
| 100506649 | NR_038924 | **PXN-AS1** | PXN antisense RNA 1 | lncRNA | 4 | 2 | 5 | 3 | 0.671 |
| 100506650 | NR_164143 | **LINC02876** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506655 | NR_039998 | **LCMT1-AS2** | LCMT1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506658 | NM_001205254,NM | **OCLN** | occludin | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 100506660 | NR_038927 | **DDX11-AS1** | DDX11 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.315 |
| 100506664 | XR_927932 | **LOC100506664** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506668 | NR_038854 | **NRAV** | negative regulator of anti | lncRNA | 5 | 5 | 6 | 6 | 0.995 |
| 100506672 | gene-LOC10050667 | **LOC100506672** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506674 | NR_109862,NR_109 | **MRPS30-DT** | MRPS30 divergent transc | lncRNA | 3 | 1 | 4 | 2 | 0.628 |
| 100506675 | NR_120526,NR_120 | **LOC100506675** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506677 | NR_037584 | **AA06** | uncharacterized LOC100 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100506679 | NR_125362 | **TTLL1-AS1** | TTLL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506680 | NR_103450 | **SACS-AS1** | SACS antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506681 | NR_120502 | **JARID2-AS1** | JARID2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506682 | NR_110024 | **LOC100506682** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506685 | gene-STMN1P1 | **STMN1P1** | stathmin 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.060 |
| 100506686 | NR_040051,NR_040 | **IQCH-AS1** | IQCH antisense RNA 1 | lncRNA | 5 | 4 | 6 | 5 | 0.841 |
| 100506688 | NR_104614,NR_104 | **LOC100506688** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.145 |
| 100506691 | NR_135044 | **LOC100506691** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506696 | NR_046325,NR_046 | **PCAT6** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506697 | NR_038995 | **LINC00327** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506700 | NR_109999 | **LINC02308** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506710 | NR_036592 | **EBLN3P** | endogenous Bornavirus l | transcribed_pseu | 53 | 42 | 54 | 43 | 0.803 |
| 100506712 | gene-HNRNPA1P5 | **HNRNPA1P5** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506713 | NR_040089 | **ALOX12-AS1** | ALOX12 antisense RNA | lncRNA | 3 | 3 | 4 | 4 | 1.037 |
| 100506714 | NR_038956,NR_038 | **NUP50-DT** | NUP50 divergent transcr | lncRNA | 9 | 8 | 10 | 9 | 0.889 |
| 100506715 | gene-PNKDP1 | **PNKDP1** | PNKD pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506723 | gene-TMSB10P1 | **TMSB10P1** | thymosin beta 10 pseudo | pseudogene | 0 | 0 | 1 | 1 | 0.980 |
| 100506724 | NR_121607 | **LINC00901** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506725 | NR_108082,NR_108 | **LOC100506725** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506730 | NR_037847 | **LOC100506730** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.968 |
| 100506731 | XR_110231 | **LOC100506731** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506733 | NR_038973 | **FAM170B-AS1** | FAM170B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506736 | NM_001195790,NM | **SLFN12L** | schlafen family member | protein_coding | 47 | 31 | 48 | 32 | 0.679 |
| 100506737 | NR_131244 | **LINC01589** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506742 | NR_034061,NR_034 | **CASP12** | caspase 12 (gene/pseud | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100506746 | NR_038841 | **AFF1-AS1** | AFF1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.964 |
| 100506747 | NR_036557 | **MGAT4FP** | MGAT4 family member F | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100506749 | NR_131900 | **AGAP1-IT1** | AGAP1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506753 | NR_126338,NR_126 | **MAILR** | macrophage interferon re | lncRNA | 0 | 1 | 1 | 2 | 1.562 |
| 100506755 | NR_038310 | **MIR497HG** | mir-497-195 cluster host | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506757 | NR_038998 | **LINC00629** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.230 |
| 100506759 | NR_002163 | **OR7E37P** | olfactory receptor family | transcribed_pseu | 0 | 0 | 1 | 1 | 1.059 |
| 100506765 | NR_046230 | **IGSF11-AS1** | IGSF11 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506769 | NR_108038 | **C10orf71-AS1** | C10orf71 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506775 | NR_117097,NR_117 | **LINC01353** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.818 |
| 100506776 | NR_040085 | **TRG-AS1** | T cell receptor gamma lo | lncRNA | 22 | 22 | 23 | 23 | 1.014 |
| 100506779 | NR_038410,NR_038 | **TSPOAP1-AS1** | TSPOAP1, SUPT4H1 an | lncRNA | 34 | 33 | 35 | 34 | 0.956 |
| 100506783 | NR_038435 | **HOXD-AS2** | HOXD cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506787 | NR_110762 | **LINC01543** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506790 | NR_104652 | **LOC100506790** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506791 | NR_125810 | **LINC01511** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506795 | NR_038426 | **LINC01354** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506797 | NR_144530 | **THORLNC** | testis associated oncoge | lncRNA | 1 | 0 | 2 | 1 | 0.611 |
| 100506801 | NR_038404 | **ECE1-AS1** | ECE1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506804 | NR_040081 | **TMEM30A-DT** | TMEM30A divergent tran | lncRNA | 1 | 1 | 2 | 2 | 0.931 |
| 100506810 | NR_038856 | **LINC01132** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506826 | NR_038266,NR_122 | **MYLK-AS1** | MYLK antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 1.052 |
| 100506827 | NR_131958,NR_131 | **LINC02475** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506834 | NR_049794 | **GAS1RR** | GAS1 adjacent regulator | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506835 | NR_038268 | **LINC00840** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506840 | NR_038213,NR_038 | **IQCF4P** | IQ motif containing F4, p | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100506844 | NR_038269 | **GIHCG** | GIHCG inhibitor of miR-2 | lncRNA | 49 | 53 | 50 | 54 | 1.075 |
| 100506851 | XR_001744211,XR_ | **LOC100506851** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506858 | NR_104616 | **LOC100506858** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506860 | NR_109780 | **LINC00513** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.403 |
| 100506866 | NR_038271,NR_038 | **TTN-AS1** | TTN antisense RNA 1 | lncRNA | 5 | 4 | 6 | 5 | 0.851 |
| 100506869 | NR_126341 | **LOC100506869** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506872 | gene-RNF7P1 | **RNF7P1** | ring finger protein 7 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506874 | NR_038273,NR_038 | **LINC00933** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.943 |
| 100506881 | NR_125364 | **MKLN1-AS** | MKLN1 antisense RNA | lncRNA | 4 | 3 | 5 | 4 | 0.840 |
| 100506885 | NR_134649,NR_134 | **LNC-LBCS** | lncRNA bladder and pros | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506888 | NM_001242907 | **ELOA3D** | elongin A3 family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100506895 | NR_038276 | **LUARIS** | lncRNA upregulator of ar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506897 | NR_146781 | **DAPK1-IT1** | DAPK1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506898 | NR_049723 | **MAGOH2P** | mago homolog 2, pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100506901 | XR_001755918,XR_ | **LL0XNC01-250H12.3** | uncharacterized LL0XNC | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506907 | NR_103787,NR_103 | **CCDC37-DT** | CCDC37 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506911 | gene-LOC10050691 | **LOC100506911** | chromosome 6 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506915 | NR_103776 | **CHRM3-AS2** | CHRM3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506922 | XR_001739698,XR_ | **MAP3K2-DT** | MAP3K2 divergent transc | lncRNA | 14 | 14 | 15 | 15 | 0.945 |
| 100506925 | gene-HNRNPA1P31 | **HNRNPA1P31** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506929 | XR_159119 | **LOC100506929** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506930 | NR_038278,NR_038 | **LINC00665** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506937 | NR_134332 | **LOC100506937** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506939 | NR_038277 | **PRKG1-AS1** | PRKG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506946 | gene-PPIAP70 | **PPIAP70** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.944 |
| 100506953 | gene-FABP7P1 | **FABP7P1** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506955 | gene-LOC10050695 | **LOC100506955** | cancer/testis antigen 83 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100506963 | NR_038280 | **ELOA-AS1** | ELOA antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.746 |
| 100506965 | NR_146168 | **PWAR6** | Prader Willi/Angelman re | lncRNA | 1 | 0 | 2 | 1 | 0.883 |
| 100506974 | XR_001752794,XR_ | **LOC100506974** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.801 |
| 100506985 | NR_109781 | **NCMAP-DT** | NCMAP divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506990 | NR_040091,NR_040 | **LOC100506990** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 100506994 | NR_038281,NR_038 | **PTPRG-AS1** | PTPRG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100506999 | NR_146449,NR_146 | **LINC02318** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507002 | NR_110801 | **LOC100507002** | uncharacterized LOC100 | lncRNA | 25 | 17 | 26 | 18 | 0.699 |
| 100507003 | NM_001195256,XM | **GFY** | golgi associated olfactor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507006 | NR_120420 | **LOC100507006** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507008 | NR_108046 | **LINC00844** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507012 | NR_121610 | **BMPR1B-DT** | BMPR1B divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507027 | NM_001304731,NM | **MRLN** | myoregulin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507032 | NR_037893 | **TMCC1-AS1** | TMCC1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.167 |
| 100507034 | NR_038284 | **PITRM1-AS1** | PITRM1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 100507043 | NR_038861,NR_132 | **TUNAR** | TCL1 upstream neural di | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507044 | gene-NBPF5P | **NBPF5P** | NBPF member 5, pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507046 | gene-HSPE1P3 | **HSPE1P3** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.079 |
| 100507050 | NM_001195528 | **TPBGL** | trophoblast glycoprotein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507053 | NR_037884 | **LOC100507053** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.121 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100507055 | NM_001195520,XM_ | **LRCOL1** | leucine rich colipase like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507056 | NR_108049 | **CCAT1** | colon cancer associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507057 | NR_038285 | **MELTF-AS1** | MELTF antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.344 |
| 100507058 | NR_108052 | **LINC00845** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507059 | NR_108054,NR_108 | **LINC00703** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507062 | NR_038286 | **PSMD6-AS2** | PSMD6 antisense RNA 2 | lncRNA | 1 | 1 | 2 | 2 | 0.976 |
| 100507064 | NR_038287,NR_038 | **TEX26-AS1** | TEX26 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507065 | NR_120431,NR_120 | **LOC100507065** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507066 | NR_045382 | **CLIP1-AS1** | CLIP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507071 | NR_134293 | **LOC100507071** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507073 | NR_110156 | **LINC01798** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507083 | gene-LOC10050708 | **LOC100507083** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507086 | NR_038289 | **DLG1-AS1** | DLG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 100507091 | NR_038290 | **PITPNM2-AS1** | PITPNM2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507096 | NM_001195138 | **GIMD1** | GIMAP family P-loop NTI | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507097 | gene-ATP5MC2P3 | **ATP5MC2P3** | ATP synthase membrane | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507098 | NR_038264 | **ADAMTS9-AS2** | ADAMTS9 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507099 | NR_103839 | **FRY-AS1** | FRY antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507102 | gene-COX20P1 | **COX20P1** | COX20 pseudogene 1 | pseudogene | 8 | 8 | 9 | 9 | 1.029 |
| 100507103 | XR_001746830,XR_ | **LOC100507103** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.016 |
| 100507114 | NR_132115,NR_132 | **LINC00445** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507117 | NR_045385 | **ASAP1-IT2** | ASAP1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507118 | NR_051984 | **PRC1-AS1** | PRC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 100507124 | gene-HMGN1P25 | **HMGN1P25** | high mobility group nucl | pseudogene | 0 | 1 | 1 | 2 | 1.301 |
| 100507125 | gene-ERHP1 | **ERHP1** | ERH pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507127 | NR_038291 | **LINC00707** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507135 | NR_045180,NR_045 | **SPART-AS1** | SPART antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507140 | NR_037886 | **LINC01792** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507143 | NR_108058 | **LINC00708** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507144 | NR_120528 | **LOC100507144** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507156 | NR_038323 | **LOC100507156** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507163 | NR_108039 | **LINC00709** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507170 | NM_001242922,XM_ | **CT47A12** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 100507171 | NR_045634,NR_045 | **BOLA3-AS1** | BOLA3 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 0.918 |
| 100507173 | NR_038292,NR_038 | **LINC01012** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.803 |
| 100507175 | NR_103861 | **LINC02408** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.886 |
| 100507178 | NR_037868 | **SLFNL1-AS1** | SLFNL1 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.920 |
| 100507194 | NR_038295,NR_038 | **LINC02525** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507195 | NR_120458 | **LINC02384** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.825 |
| 100507201 | NR_110161 | **LINC01815** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507203 | NM_001195597 | **SMLR1** | small leucine rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507205 | NR_038309 | **LINC02740** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507206 | NR_038256 | **LINC00943** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507210 | NR_135574 | **LINC02000** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507217 | NR_037600,NR_037 | **CHASERR** | long intergenic non-prote | lncRNA | 28 | 30 | 29 | 31 | 1.073 |
| 100507218 | NR_040017 | **RNF157-AS1** | RNF157 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.165 |
| 100507231 | gene-PPIAP42 | **PPIAP42** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 100507240 | NR_039974 | **VWA8-AS1** | VWA8 antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 0.914 |
| 100507244 | NR_040076 | **MAMDC2-AS1** | MAMDC2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.095 |
| 100507246 | NR_038108,NR_038 | **SNHG16** | small nucleolar RNA hos | lncRNA | 84 | 79 | 85 | 80 | 0.938 |
| 100507250 | NR_038930 | **LOC100507250** | uncharacterized LOC100 | lncRNA | 2 | 2 | 3 | 3 | 0.979 |
| 100507254 | NR_038981,NR_146 | **LINC01013** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507257 | NR_047664 | **MEG9** | maternally expressed 9 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507261 | NR_131246 | **MIR670HG** | MIR670 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507266 | NR_037888 | **STX18-AS1** | STX18 antisense RNA 1 | lncRNA | 7 | 6 | 8 | 7 | 0.827 |
| 100507267 | NR_108022 | **LINC01187** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.113 |
| 100507274 | NR_109987 | **LINC01210** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507277 | NR_135240 | **LINC02314** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507283 | NR_103862 | **LOC100507283** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.145 |
| 100507290 | NM_001195605 | **ZNF865** | zinc finger protein 865 | protein_coding | 9 | 9 | 10 | 10 | 1.020 |
| 100507291 | NR_121608,NR_121 | **LOC100507291** | uncharacterized LOC100 | lncRNA | 1 | 2 | 2 | 3 | 1.471 |
| 100507297 | NR_047573,NR_047 | **TMEM44-AS1** | TMEM44 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.162 |
| 100507299 | NR_039990 | **SMC5-AS1** | SMC5 antisense RNA 1 ( | lncRNA | 1 | 1 | 2 | 2 | 0.908 |
| 100507300 | NR_038907 | **ALKBH3-AS1** | ALKBH3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507303 | NR_132114 | **SNHG19** | small nucleolar RNA hos | lncRNA | 30 | 36 | 31 | 37 | 1.188 |
| 100507308 | NR_109982 | **TARID** | TCF21 antisense RNA in | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507316 | NR_120682,NR_120 | **MINCR** | MYC-induced long non-c | lncRNA | 3 | 2 | 4 | 3 | 0.848 |
| 100507321 | NR_040023 | **ERVK13-1** | endogenous retrovirus g | lncRNA | 4 | 4 | 5 | 5 | 1.011 |
| 100507331 | NR_038357 | **ZSWIM8-AS1** | ZSWIM8 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.015 |
| 100507334 | NR_037626 | **LOC100507334** | two pore channel 3 pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100507336 | XR_001743929,XR_ | **LOC100507336** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507341 | NM_001206847,XM_ | **SMIM18** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507346 | NR_038982 | **LOC100507346** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507347 | NR_108060,NR_108 | **VIM-AS1** | VIM antisense RNA 1 | lncRNA | 3 | 4 | 4 | 5 | 1.077 |
| 100507351 | NR_040050 | **LOC100507351** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507354 | gene-CDC42P5 | **CDC42P5** | cell division cycle 42 pse | pseudogene | 0 | 0 | 1 | 1 | 1.017 |
| 100507357 | gene-RPL23AP86 | **RPL23AP86** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507361 | gene-PCNPP5 | **PCNPP5** | PEST containing nuclear | pseudogene | 0 | 0 | 1 | 1 | 0.933 |
| 100507362 | NR_037179,NR_037 | **LINC01015** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507373 | NR_045214 | **LOC100507373** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.798 |
| 100507377 | NR_038300 | **LINC02882** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507379 | gene-LOC10050737 | **LOC100507379** | RNA binding motif protei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507381 | NR_120503 | **KCNQ5-IT1** | KCNQ5 intronic transcrip | lncRNA | 2 | 2 | 3 | 3 | 0.909 |
| 100507384 | NR_047569 | **LOC100507384** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507387 | NR_038402 | **LOC100507387** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507388 | NR_121617 | **PARM1-AS1** | PARM1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507389 | NR_038455 | **LOC100507389** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507391 | NR_037891 | **LINC01968** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 100507392 | NR_038908 | **SENCR** | smooth muscle and endo | lncRNA | 0 | 1 | 1 | 2 | 1.425 |
| 100507398 | NR_103812 | **INTS6-AS1** | INTS6 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.079 |
| 100507401 | NR_038909 | **LRP4-AS1** | LRP4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.166 |
| 100507403 | XR_001745867,XR_ | **LOC100507403** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507404 | NR_039991 | **TMLHE-AS1** | TMLHE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 100507406 | NR_121618,NR_121 | **LINC02539** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507410 | NR_040018,NR_040 | **C1QTNF1-AS1** | C1QTNF1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507415 | XR_002956924 | **FAM220CP** | family with sequence sim | transcribed_pseu | 0 | 0 | 1 | 1 | 1.002 |
| 100507419 | NR_123723 | **MMP25-AS1** | MMP25 antisense RNA 1 | lncRNA | 12 | 14 | 13 | 15 | 1.118 |
| 100507420 | NR_121620,NR_121 | **LINC01605** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507421 | NM_001195278,XM_ | **TMEM178B** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 100507422 | gene-LOC10050742 | **LOC100507422** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507423 | NR_038403 | **MKNK1-AS1** | MKNK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507428 | NR_108062,NR_108 | **LINC00458** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.784 |
| 100507431 | NR_125383 | **LINC02551** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507433 | NR_038247,NR_038 | **ZNF571-AS1** | ZNF571 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507435 | NR_103863 | **DLGAP2-AS1** | DLGAP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507436 | NM_001177519,NM_ | **MICA** | MHC class I polypeptide- | protein_coding | 7 | 6 | 8 | 7 | 0.878 |
| 100507437 | NR_125384,NR_125 | **LOC100507437** | uncharacterized LOC100 | lncRNA | 1 | 2 | 2 | 3 | 1.106 |
| 100507443 | NR_038437 | **LOC100507443** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507444 | gene-PPP1R2P1 | **PPP1R2P1** | protein phosphatase 1 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507458 | NR_110900 | **ZNF213-AS1** | ZNF213 antisense RNA 1 | lncRNA | 11 | 12 | 12 | 13 | 1.087 |
| 100507459 | NR_109990 | **NRSN2-AS1** | NRSN2 antisense RNA 1 | lncRNA | 3 | 2 | 4 | 3 | 0.893 |
| 100507461 | NR_134937 | **LINC02032** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507462 | NR_161203,NR_161 | **CCDC28A-AS1** | CCDC28A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.911 |
| 100507463 | NR_037173,NR_037 | **PSMB8-AS1** | PSMB8 antisense RNA 1 | lncRNA | 45 | 42 | 46 | 43 | 0.932 |
| 100507464 | NR_134294 | **LOC100507464** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507466 | NR_038251 | **DPH6-DT** | DPH6 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507468 | NR_108105,NR_148 | **CT66** | cancer/testis associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507470 | NR_038986 | **GRID1-AS1** | GRID1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507472 | NR_045387 | **LOC100507472** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 0.994 |
| 100507475 | NR_046452 | **IDH1-AS1** | IDH1 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.573 |
| 100507477 | NR_121622,NR_121 | **LOC100507477** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507480 | XR_109174 | **LINC02853** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507487 | NR_125882 | **LINC02615** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 100507489 | NR_038987 | **LINC01277** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507490 | gene-ZNF859P | **ZNF859P** | zinc finger protein 859, p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507495 | NR_040047,NR_040 | **SDCBP2-AS1** | SDCBP2 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.556 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100507500 | NR_047551 | **EGFR-AS1** | EGFR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507501 | NR_039999 | **LINC01569** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.102 |
| 100507506 | NR_103764 | **ECI2-DT** | ECI2 divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 100507507 | NR_161353 | **LOC100507507** | uncharacterized LOC100 | lncRNA | 6 | 4 | 7 | 5 | 0.786 |
| 100507513 | XR_110261 | **LOC100507513** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507516 | NR_149032 | **LOC100507516** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507521 | XR_110911,XR_950 | **LINC02733** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507524 | NR_037901 | **ARHGEF26-AS1** | ARHGEF26 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507526 | gene-SMG1P4 | **SMG1P4** | SMG1 pseudogene 4 | pseudogene | 11 | 9 | 12 | 10 | 0.834 |
| 100507527 | NM_001205273,NM | **THEG5** | testis highly expressed p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507528 | NR_103762,NR_103 | **LINC00613** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507530 | NR_125386 | **MCPH1-AS1** | MCPH1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 100507533 | NR_046514 | **SOX21-AS1** | SOX21 antisense diverge | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507534 | NR_110649 | **LINC02192** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507537 | NM_001352129 | **STRIT1** | small transmembrane re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507540 | NR_110952,NR_110 | **LINC01504** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507547 | NR_037169,NR_037 | **LOC100507547** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.279 |
| 100507548 | NR_135050 | **LOC100507548** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507549 | gene-HMGB3P32 | **HMGB3P32** | high mobility group box 3 | pseudogene | 15 | 18 | 16 | 19 | 1.157 |
| 100507551 | NR_147835 | **LOC100507551** | uncharacterized LOC100 | lncRNA | 1 | 0 | 2 | 1 | 0.812 |
| 100507554 | XR_108428,XR_923 | **RPL37A-DT** | RPL37A divergent transc | lncRNA | 1 | 1 | 2 | 2 | 0.640 |
| 100507557 | NR_038244,NR_038 | **FBXO30-DT** | FBXO30 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 0.932 |
| 100507560 | XR_001748967,XR_ | **LOC100507560** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507561 | gene-LOC10050756 | **LOC100507561** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507562 | XR_001739323,XR_ | **LOC100507562** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507564 | NR_038953 | **LOC100507564** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 100507567 | NR_038237 | **RAB11B-AS1** | RAB11B antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.122 |
| 100507582 | NR_037903,NR_125 | **BHLHE40-AS1** | BHLHE40 antisense RNA | lncRNA | 2 | 2 | 3 | 3 | 1.148 |
| 100507584 | NR_038989 | **LINC01016** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.908 |
| 100507586 | gene-LOC10050758 | **LOC100507586** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.246 |
| 100507588 | NM_001195259,XM | **TGFBR3L** | transforming growth fact | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507589 | NR_038913 | **NAGPA-AS1** | NAGPA antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.651 |
| 100507599 | NR_144529 | **LOC100507599** | uncharacterized LOC100 | lncRNA | 5 | 4 | 6 | 5 | 0.865 |
| 100507600 | NR_045486 | **LCT-AS1** | LCT antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.734 |
| 100507602 | NR_102759,NR_102 | **TRIM52-AS1** | TRIM52 antisense RNA 1 | lncRNA | 10 | 10 | 11 | 11 | 0.973 |
| 100507605 | NR_038374,NR_038 | **LINC00837** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507606 | gene-LOC10050760 | **LOC100507606** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100507607 | NM_001287250,NM | **NPIPB9** | nuclear pore complex int | protein_coding | 2 | 2 | 3 | 3 | 0.942 |
| 100507608 | NM_001277331 | **KRTAP9-6** | keratin associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507612 | NR_144451 | **LINC00402** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507616 | NR_144532 | **LINC02397** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507617 | gene-PPP1R14BP3 | **PPP1R14BP3** | protein phosphatase 1 re | pseudogene | 9 | 10 | 10 | 11 | 1.132 |
| 100507629 | NR_038239,NR_038 | **LINC00658** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507632 | NR_038236 | **LINC00968** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507633 | NR_108070,NR_108 | **TNKS2-AS1** | TNKS2 antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.851 |
| 100507634 | NR_038320 | **LOC100507634** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.780 |
| 100507639 | NR_121625 | **LINC02432** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507642 | NR_108064,NR_108 | **LOC100507642** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.099 |
| 100507650 | NM_001282322,NM | **RNF212B** | ring finger protein 212B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507651 | NR_038235 | **LINC01606** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507657 | NR_134581 | **LINC02554** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507661 | NR_109989 | **LINC02082** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100507670 | NR_135595 | **ZNF687-AS1** | ZNF687 antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.773 |
| 100507674 | NR_038243 | **MARK2P9** | microtubule affinity regul | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100507679 | NM_001198815,NM | **MUC22** | mucin 22 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100507747 | NM_001365455,XM | **C13orf46** | chromosome 13 open re | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100508046 | NR_110505 | **LOC100508046** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100508120 | NR_046229 | **GMDS-DT** | GMDS divergent transcri | lncRNA | 3 | 3 | 4 | 4 | 1.025 |
| 100508631 | NR_134669 | **LINC02616** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100509370 | gene-LOC10050937 | **LOC100509370** | . | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 100509620 | NM_001382497,XM | **LOC100509620** | putative aquaporin-7-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100509857 | gene-KRT8P4 | **KRT8P4** | keratin 8 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100509894 | NR_046226,NR_046 | **CPB2-AS1** | CPB2 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.871 |
| 100510707 | NM_001355571,XM | **TBC1D3J** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 100526656 | gene-GNG10P1 | **GNG10P1** | G protein subunit gamma | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100526664 | NM_001198759,NM | **LY75-CD302** | LY75-CD302 readthroug | protein_coding | 1 | 2 | 2 | 3 | 1.407 |
| 100526693 | NM_001198793 | **ARPC4-TTLL3** | ARPC4-TTLL3 readthrou | protein_coding | 4 | 3 | 5 | 4 | 0.831 |
| 100526694 | NM_001198812 | **MSANTD3-TMEFF1** | MSANTD3-TMEFF1 read | protein_coding | 29 | 30 | 30 | 31 | 1.051 |
| 100526737 | NM_001198845,NM | **RBM14-RBM4** | RBM14-RBM4 readthrou | protein_coding | 4 | 3 | 5 | 4 | 0.808 |
| 100526739 | NM_001243768,NM | **CENPS-CORT** | CENPS-CORT readthrou | protein_coding | 5 | 4 | 6 | 5 | 0.800 |
| 100526740 | NM_001198879 | **ATP5MF-PTCD1** | ATP5MF-PTCD1 readthr | protein_coding | 6 | 9 | 7 | 10 | 1.490 |
| 100526760 | NM_001316331 | **ABHD14A-ACY1** | ABHD14A-ACY1 readthro | protein_coding | 1 | 0 | 2 | 1 | 0.457 |
| 100526761 | NM_001198910 | **CCDC169-SOHLH2** | CCDC169-SOHLH2 read | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100526767 | NM_001198954 | **RNF103-CHMP3** | RNF103-CHMP3 readthr | protein_coding | 1 | 1 | 2 | 2 | 1.176 |
| 100526771 | NM_001354434,XM | **SMIM35** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 0.985 |
| 100526772 | NM_001198974 | **STIMATE-MUSTN1** | STIMATE-MUSTN1 readt | protein_coding | 0 | 0 | 1 | 1 | 1.130 |
| 100526773 | NM_001198986 | **EPPIN-WFDC6** | EPPIN-WFDC6 readthro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100526776 | gene-CSNK1A1P3 | **CSNK1A1P3** | casein kinase 1 alpha 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100526783 | NM_001199058 | **ARPIN-AP3S2** | ARPIN-AP3S2 readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100526793 | gene-CKS1BP5 | **CKS1BP5** | CDC28 protein kinase re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100526794 | NM_001199103,NM | **NT5C1B-RDH14** | NT5C1B-RDH14 readthr | protein_coding | 1 | 1 | 2 | 2 | 0.980 |
| 100526820 | NR_037593 | **CAHM** | colon adenocarcinoma h | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100526825 | NR_037598 | **INMT-MINDY4** | INMT-MINDY4 readthrou | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100526830 | NR_037608 | **SLX1A-SULT1A3** | SLX1A-SULT1A3 readthr | lncRNA | 7 | 9 | 8 | 10 | 1.210 |
| 100526831 | NR_037609 | **SLX1B-SULT1A4** | SLX1B-SULT1A4 readthr | lncRNA | 6 | 7 | 7 | 8 | 1.163 |
| 100526832 | NM_001199290,NR | **PHOSPHO2-KLHL23** | PHOSPHO2-KLHL23 rea | protein_coding | 3 | 2 | 4 | 3 | 0.892 |
| 100526833 | NR_037611,NR_037 | **SEPT5-GP1BB** | SEPT5-GP1BB readthro | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100526835 | NM_001112808,NM | **FPGT-TNNI3K** | FPGT-TNNI3K readthrou | protein_coding | 0 | 0 | 1 | 1 | 0.893 |
| 100526836 | NR_037616 | **BLOC1S5-TXNDC5** | BLOC1S5-TXNDC5 read | lncRNA | 1 | 1 | 2 | 2 | 1.442 |
| 100526837 | NR_037618 | **EEF1E1-BLOC1S5** | EEF1E1-BLOC1S5 readt | lncRNA | 3 | 2 | 4 | 3 | 0.800 |
| 100526839 | gene-LOC10052683 | **LOC100526839** | chromosome 18 open re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100526842 | NM_001199355,NM | **RPL17-C18orf32** | RPL17-C18orf32 readthr | protein_coding | 40 | 22 | 41 | 23 | 0.556 |
| 100527943 | NM_001199535 | **TGIF2-RAB5IF** | TGIF2-RAB5IF readthrou | protein_coding | 0 | 0 | 1 | 1 | 0.785 |
| 100527946 | gene-PDCD5P1 | **PDCD5P1** | programmed cell death 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100527947 | gene-PDCD5P2 | **PDCD5P2** | programmed cell death 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100527948 | gene-HMGB1P27 | **HMGB1P27** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100527949 | NM_001199577,NM | **GIMAP1-GIMAP5** | GIMAP1-GIMAP5 readthr | protein_coding | 8 | 7 | 9 | 8 | 0.936 |
| 100527950 | NR_037633,NR_037 | **GJA9-MYCBP** | GJA9-MYCBP readthrou | lncRNA | 0 | 1 | 1 | 2 | 2.013 |
| 100527960 | NR_037639,NR_037 | **MROH7-TTC4** | MROH7-TTC4 readthrou | lncRNA | 0 | 0 | 1 | 1 | 1.185 |
| 100527963 | NM_001199661,NM | **PMF1-BGLAP** | PMF1-BGLAP readthrou | protein_coding | 3 | 4 | 4 | 5 | 1.016 |
| 100527964 | NR_037642 | **LHX4-AS1** | LHX4 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.195 |
| 100527978 | NM_001199691 | **TLCD4-RWDD3** | TLCD4-RWDD3 readthro | protein_coding | 1 | 0 | 2 | 1 | 0.813 |
| 100528006 | gene-DPPA5P3 | **DPPA5P3** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100528007 | NR_037644 | **BORCS7-ASMT** | BORCS7-ASMT readthro | lncRNA | 1 | 0 | 2 | 1 | 0.835 |
| 100528016 | NR_037646 | **TMX2-CTNND1** | TMX2-CTNND1 readthro | lncRNA | 0 | 0 | 1 | 1 | 1.007 |
| 100528017 | NM_001199744 | **SAA2-SAA4** | SAA2-SAA4 readthrough | protein_coding | 0 | 0 | 1 | 1 | 1.067 |
| 100528018 | NR_037650 | **ARL2-SNX15** | ARL2-SNX15 readthroug | lncRNA | 1 | 1 | 2 | 2 | 1.338 |
| 100528019 | NR_037651 | **HSPB2-C11orf52** | HSPB2-C11orf52 readthr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100528020 | NM_001258400 | **FAM187A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.002 |
| 100528021 | NM_001199760 | **ST20-MTHFS** | ST20-MTHFS readthrou | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 100528022 | NR_037658 | **BLOC1S1-RDH5** | BLOC1S1-RDH5 readthr | lncRNA | 3 | 3 | 4 | 4 | 1.109 |
| 100528030 | NM_001199781,NM | **POC1B-GALNT4** | POC1B-GALNT4 readthr | protein_coding | 5 | 4 | 6 | 5 | 0.803 |
| 100528031 | NR_037661 | **FKBP1A-SDCBP2** | FKBP1A-SDCBP2 readth | lncRNA | 2 | 2 | 3 | 3 | 1.106 |
| 100528032 | NM_001199805 | **KLRC4-KLRK1** | KLRC4-KLRK1 readthrou | protein_coding | 1 | 0 | 2 | 1 | 0.793 |
| 100528061 | gene-GGCTP1 | **GGCTP1** | GGCT pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 0.893 |
| 100528062 | NM_001199818,NM | **ARMCX5-GPRASP2** | ARMCX5-GPRASP2 reac | protein_coding | 1 | 1 | 2 | 2 | 0.933 |
| 100528064 | NM_001199823,NR | **NEDD8-MDP1** | NEDD8-MDP1 readthrou | protein_coding | 14 | 20 | 15 | 21 | 1.426 |
| 100529052 | gene-GGCTP2 | **GGCTP2** | GGCT pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100529063 | NM_001199864 | **BCL2L2-PABPN1** | BCL2L2-PABPN1 readth | protein_coding | 4 | 0 | 5 | 1 | 0.246 |
| 100529067 | NR_037673 | **SERF2-C15ORF63** | SERF2-C15orf63 readthr | lncRNA | 24 | 16 | 25 | 17 | 0.662 |
| 100529097 | NM_001199973,NM | **RPL36A-HNRNPH2** | RPL36A-HNRNPH2 read | protein_coding | 3 | 3 | 4 | 4 | 1.071 |
| 100529111 | gene-NPLP1 | **NPLP1** | NPL pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100529144 | NM_001201479 | **CORO7-PAM16** | CORO7-PAM16 readthro | protein_coding | 1 | 1 | 2 | 2 | 1.104 |
| 100529145 | NR_037709 | **TEN1-CDK3** | TEN1-CDK3 readthrough | lncRNA | 7 | 4 | 8 | 5 | 0.622 |
| 100529207 | NR_037714 | **RAD51L3-RFFL** | RAD51L3-RFFL readthro | lncRNA | 1 | 1 | 2 | 2 | 0.733 |
| 100529209 | NR_037717 | **RNASEK-C17orf49** | RNASEK-C17orf49 readt | lncRNA | 9 | 16 | 10 | 17 | 1.655 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100529211 | NR_037719 | **TMEM256-PLSCR3** | TMEM256-PLSCR3 read | lncRNA | 3 | 1 | 4 | 2 | 0.386 |
| 100529215 | NM_001172650,NM | **ZNF559-ZNF177** | ZNF559-ZNF177 readthr | protein_coding | 1 | 1 | 2 | 2 | 1.137 |
| 100529239 | NM_001202470 | **RPS10-NUDT3** | RPS10-NUDT3 readthrou | protein_coding | 18 | 18 | 19 | 19 | 0.986 |
| 100529240 | NM_001202473 | **ZNF816-ZNF321P** | ZNF816-ZNF321P readth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100529241 | NM_001202485 | **HSPE1-MOB4** | HSPE1-MOB4 readthrou | protein_coding | 11 | 13 | 12 | 14 | 1.175 |
| 100529251 | NM_001202509,NM | **CKLF-CMTM1** | CKLF-CMTM1 readthrou | protein_coding | 3 | 2 | 4 | 3 | 0.799 |
| 100529257 | NM_001202547,NM | **SYNJ2BP-COX16** | SYNJ2BP-COX16 readth | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 100529261 | NM_001202558,NM | **CHURC1-FNTB** | CHURC1-FNTB readthro | protein_coding | 1 | 1 | 2 | 2 | 0.902 |
| 100529262 | NR_037775 | **MIA-RAB4B** | MIA-RAB4B readthrough | lncRNA | 0 | 0 | 1 | 1 | 1.272 |
| 100529264 | NR_037791 | **RAB4B-EGLN2** | RAB4B-EGLN2 readthrou | lncRNA | 2 | 0 | 3 | 1 | 0.453 |
| 100529855 | NR_037802 | **ZNF625-ZNF20** | ZNF625-ZNF20 readthro | lncRNA | 0 | 0 | 1 | 1 | 1.108 |
| 100532724 | NR_037804 | **NPHP3-ACAD11** | NPHP3-ACAD11 readthr | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 100532726 | NM_001203260,NM | **NDUFC2-KCTD14** | NDUFC2-KCTD14 readth | protein_coding | 2 | 1 | 3 | 2 | 0.758 |
| 100532731 | NM_001204062 | **COMMD3-BMI1** | COMMD3-BMI1 readthro | protein_coding | 0 | 5 | 1 | 6 | 5.342 |
| 100532732 | NR_037846 | **MSH5-SAPCD1** | MSH5-SAPCD1 readthro | lncRNA | 5 | 6 | 6 | 7 | 1.152 |
| 100532735 | NR_037849 | **INO80B-WBP1** | INO80B-WBP1 readthrou | lncRNA | 1 | 5 | 2 | 6 | 2.465 |
| 100532736 | NM_001204088,NM | **MICOS10-NBL1** | MICOS10-NBL1 readthro | protein_coding | 0 | 0 | 1 | 1 | 0.824 |
| 100532737 | NR_037853 | **ATP6V1G2-DDX39B** | ATP6V1G2-DDX39B reac | lncRNA | 6 | 6 | 7 | 7 | 0.938 |
| 100532742 | NR_037859 | **PIR-FIGF** | PIR-FIGF readthrough | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100532746 | NR_037861 | **PPT2-EGFL8** | PPT2-EGFL8 readthroug | lncRNA | 1 | 1 | 2 | 2 | 1.168 |
| 100532749 | gene-LOC10053274 | **LOC100532749** | ubiquitination factor E4A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533105 | NM_001204173 | **C8orf44-SGK3** | C8orf44-SGK3 readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.048 |
| 100533106 | NM_001204180 | **ZHX1-C8orf76** | ZHX1-C8orf76 readthrou | protein_coding | 5 | 4 | 6 | 5 | 0.807 |
| 100533107 | NR_037882 | **RTEL1-TNFRSF6B** | RTEL1-TNFRSF6B readt | lncRNA | 1 | 5 | 2 | 6 | 2.837 |
| 100533111 | NR_037894 | **ZNF670-ZNF695** | ZNF670-ZNF695 readthr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100533177 | NM_001257309 | **KRTAP29-1** | keratin associated like pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100533178 | NM_001282471,XM | **PRORY** | proline rich Y-linked | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100533179 | NR_037904 | **UBE2F-SCLY** | UBE2F-SCLY readthroug | lncRNA | 7 | 5 | 8 | 6 | 0.709 |
| 100533181 | NM_001204268,NM | **FXYD6-FXYD2** | FXYD6-FXYD2 readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100533182 | NR_039978 | **SEC24B-AS1** | SEC24B antisense RNA | lncRNA | 2 | 3 | 3 | 4 | 1.361 |
| 100533183 | NM_001204299,NM | **ZNF664-RFLNA** | ZNF664-RFLNA readthro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100533184 | NR_037909 | **ARHGAP19-SLIT1** | ARHGAP19-SLIT1 readth | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 100533195 | NR_037915 | **FAM24B-CUZD1** | FAM24B-CUZD1 readthr | lncRNA | 1 | 1 | 2 | 2 | 0.984 |
| 100533464 | NR_037918 | **PRH1-PRR4** | PRH1-PRR4 readthroug | lncRNA | 3 | 2 | 4 | 3 | 0.906 |
| 100533467 | NM_001204425 | **BIVM-ERCC5** | BIVM-ERCC5 readthroug | protein_coding | 0 | 0 | 1 | 1 | 1.466 |
| 100533483 | NR_037923 | **DNAAF4-CCPG1** | DNAAF4-CCPG1 readthr | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 100533496 | NM_001204478,NR | **TVP23C-CDRT4** | TVP23C-CDRT4 readthro | protein_coding | 0 | 0 | 1 | 1 | 0.820 |
| 100533619 | gene-TMPOP2 | **TMPOP2** | thymopoietin pseudogen | pseudogene | 0 | 1 | 1 | 2 | 1.343 |
| 100533625 | gene-LOC10053362 | **LOC100533625** | sorting nexin 18 pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533629 | gene-LOC10053362 | **LOC100533629** | FAST kinase domains 1 | pseudogene | 0 | 0 | 1 | 1 | 0.979 |
| 100533630 | gene-LOC10053363 | **LOC100533630** | chimerin 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533632 | gene-LOC10053363 | **LOC100533632** | zinc finger protein 736 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533635 | gene-LOC10053363 | **LOC100533635** | zinc finger protein 384 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533637 | gene-LOC10053363 | **LOC100533637** | zinc finger protein 43 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533638 | gene-LOC10053363 | **LOC100533638** | zinc finger protein 85 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533640 | gene-LOC10053364 | **LOC100533640** | WEE1 homolog (S. pom | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533641 | gene-LOC10053364 | **LOC100533641** | zinc finger protein 100 ps | pseudogene | 1 | 1 | 2 | 2 | 0.991 |
| 100533659 | gene-LOC10053365 | **LOC100533659** | endoplasmic reticulum o | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533663 | gene-LOC10053366 | **LOC100533663** | histidine rich glycoprotei | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533664 | gene-PTCHD3P2 | **PTCHD3P2** | patched domain containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533665 | gene-PTCHD3P3 | **PTCHD3P3** | patched domain containi | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533668 | gene-KLF2P4 | **KLF2P4** | Kruppel like factor 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533673 | gene-OSBPL9P6 | **OSBPL9P6** | oxysterol binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533678 | gene-LOC10053367 | **LOC100533678** | serine and arginine repe | pseudogene | 0 | 0 | 1 | 1 | 0.978 |
| 100533682 | gene-MIPEPP1 | **MIPEPP1** | mitochondrial intermedia | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533695 | gene-RLIMP1 | **RLIMP1** | ring finger protein, LIM d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533705 | gene-SLC9B1P5 | **SLC9B1P5** | solute carrier family 9 me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533706 | gene-LOC10053370 | **LOC100533706** | NEDD8 activating enzym | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533717 | gene-BCAR1P1 | **BCAR1P1** | BCAR1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533718 | gene-BCAR1P2 | **BCAR1P2** | BCAR1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533722 | gene-LOC10053372 | **LOC100533722** | HERV-FRD provirus ancı | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533723 | gene-LOC10053372 | **LOC100533723** | HERV-FRD provirus ancı | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533727 | gene-LOC10053372 | **LOC100533727** | replication factor C subu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533736 | gene-LOC10053373 | **LOC100533736** | HERV-FRD provirus ancı | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533787 | gene-LOC10053378 | **LOC100533787** | HERV-FRD provirus ancı | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533789 | NR_126038 | **LRRC37A8P** | leucine rich repeat conta | transcribed_pseu | 5 | 6 | 6 | 7 | 1.094 |
| 100533790 | gene-LRRC37A9P | **LRRC37A9P** | leucine rich repeat conta | pseudogene | 6 | 3 | 7 | 4 | 0.601 |
| 100533791 | gene-LRRC37A10P | **LRRC37A10P** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533795 | gene-MARK2P16 | **MARK2P16** | microtubule affinity regul | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533800 | gene-BMPR1AP2 | **BMPR1AP2** | bone morphogenetic pro | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 100533814 | gene-TCAF2C | **TCAF2C** | TRPM8 channel associat | pseudogene | 0 | 0 | 1 | 1 | 0.952 |
| 100533844 | gene-TARS2P1 | **TARS2P1** | TARS2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533845 | gene-LOC10053384 | **LOC100533845** | UDP glucuronosyltransfe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533846 | gene-LOC10053384 | **LOC100533846** | solute carrier family 30 m | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533850 | gene-LOC10053385 | **LOC100533850** | M-phase phosphoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533852 | gene-LOC10053385 | **LOC100533852** | nuclear factor kappa B s | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533853 | gene-LOC10053385 | **LOC100533853** | THAP domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100533952 | NM_001204513 | **RBAK-RBAKDN** | RBAK-RBAKDN readthro | protein_coding | 0 | 0 | 1 | 1 | 1.192 |
| 100533955 | NR_037926 | **SENP3-EIF4A1** | SENP3-EIF4A1 readthrou | lncRNA | 1 | 1 | 2 | 2 | 0.902 |
| 100533970 | NR_037928 | **P2RX5-TAX1BP3** | P2RX5-TAX1BP3 readthi | lncRNA | 0 | 0 | 1 | 1 | 1.098 |
| 100533975 | NR_037929,NR_037 | **SLMO2-ATP5E** | SLMO2-ATP5E readthrou | lncRNA | 75 | 81 | 76 | 82 | 1.078 |
| 100533990 | NR_037932 | **APOC4-APOC2** | APOC4-APOC2 readthro | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100533997 | NM_001204811 | **MAGEA10-MAGEA5** | MAGEA10-MAGEA5 reac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100534012 | NM_001204848,NR | **TNFAIP8L2-SCNM1** | TNFAIP8L2-SCNM1 read | protein_coding | 0 | 1 | 1 | 2 | 1.329 |
| 100534589 | NR_037940 | **HOXA10-HOXA9** | HOXA10-HOXA9 readthr | lncRNA | 0 | 0 | 1 | 1 | 0.964 |
| 100534592 | NM_001204871 | **URGCP-MRPS24** | URGCP-MRPS24 readth | protein_coding | 2 | 1 | 3 | 2 | 0.533 |
| 100534593 | NR_037945 | **STX16-NPEPL1** | STX16-NPEPL1 readthro | lncRNA | 3 | 3 | 4 | 4 | 0.899 |
| 100534595 | NR_037946 | **HNRNPUL2-BSCL2** | HNRNPUL2-BSCL2 read | lncRNA | 2 | 3 | 3 | 4 | 1.505 |
| 100534599 | NM_001204890 | **ISY1-RAB43** | ISY1-RAB43 readthroug | protein_coding | 6 | 9 | 7 | 10 | 1.282 |
| 100534611 | NR_037950 | **TM4SF19-TCTEX1D2** | TM4SF19-TCTEX1D2 rea | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 100534612 | NR_037951 | **C1QTNF3-AMACR** | C1QTNF3-AMACR readth | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 100551499 | NR_038033 | **LINC00159** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616109 | NR_039671,rna-MIR | **MIR4464** | microRNA 4464 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616110 | NR_039603,rna-MIR | **MIR2681** | microRNA 2681 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616111 | NR_039660,rna-MIR | **MIR4455** | microRNA 4455 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616112 | NR_039956,rna-MIR | **MIR4793** | microRNA 4793 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100616113 | NR_039828,rna-MIR | **MIR4680** | microRNA 4680 | miRNA | 0 | 0 | 1 | 1 | 0.995 |
| 100616114 | NR_039814,rna-MIR | **MIR4668** | hsa-miR-4668-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616115 | NR_039679,rna-MIR | **MIR4469** | microRNA 4469 | miRNA | 1 | 1 | 2 | 2 | 1.041 |
| 100616116 | NR_039791,rna-MIR | **MIR4648** | hsa-miR-4648 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616117 | NR_039797,rna-MIR | **MIR4653** | microRNA 4653 | miRNA | 0 | 1 | 1 | 2 | 1.544 |
| 100616118 | NR_039706,rna-MIR | **MIR4486** | microRNA 4486 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616119 | NR_039846,rna-MIR | **MIR4697** | microRNA 4697 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616120 | NR_039844,rna-MIR | **MIR4695** | microRNA 4695 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616121 | NR_039607,rna-MIR | **MIR1268B** | microRNA 1268b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616122 | NR_039749,rna-MIR | **MIR4523** | microRNA 4523 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616123 | NR_039941,rna-MIR | **MIR4436B1** | microRNA 4436b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616124 | NR_039790,rna-MIR | **MIR4647** | microRNA 4647 | miRNA | 0 | 0 | 1 | 1 | 0.996 |
| 100616125 | NR_039884,rna-MIR | **MIR4731** | microRNA 4731 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616126 | NR_039834,rna-MIR | **MIR4686** | microRNA 4686 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616127 | NR_039650,rna-MIR | **MIR4448** | microRNA 4448 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616128 | NR_039826,rna-MIR | **MIR4679-1** | microRNA 4679-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616129 | NR_039647,rna-MIR | **MIR4445** | microRNA 4445 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616130 | NR_039752,rna-MIR | **MIR4526** | microRNA 4526 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616131 | NR_039693,rna-MIR | **MIR3689D1** | microRNA 3689d-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616132 | NR_039881,rna-MIR | **MIR4728** | microRNA 4728 | miRNA | 0 | 0 | 1 | 1 | 1.238 |
| 100616133 | NR_039848,rna-MIR | **MIR4699** | microRNA 4699 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616134 | NR_039912,rna-MIR | **MIR499B** | microRNA 499b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616135 | NR_039730,rna-MIR | **MIR4507** | microRNA 4507 | miRNA | 9 | 11 | 10 | 12 | 1.251 |
| 100616136 | NR_039628,rna-MIR | **MIR4430** | microRNA 4430 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616137 | NR_039723,rna-MIR | **MIR4501** | hsa-miR-4501 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616138 | NR_039950,rna-MIR | **MIR4787** | microRNA 4787 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616139 | NR_039895,rna-MIR | **MIR4741** | microRNA 4741 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616140 | NR_039728,rna-MIR | **MIR4506** | microRNA 4506 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616141 | NR_039626,rna-MIR | **MIR4428** | microRNA 4428 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616142 | NR_039663,rna-MIR | **MIR4458** | microRNA 4458 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100616143 | NR_039920,rna-MIF | **MIR4763** | microRNA 4763 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616144 | NR_039765,rna-MIF | **MIR548AN** | microRNA 548an | miRNA | 0 | 1 | 1 | 2 | 1.520 |
| 100616146 | NR_039759,rna-MIF | **MIR4534** | microRNA 4534 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616147 | NR_039926,rna-MIF | **MIR4769** | microRNA 4769 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616148 | NR_039917,rna-MIF | **MIR4760** | microRNA 4760 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616149 | NR_039737,rna-MIF | **MIR4512** | microRNA 4512 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616150 | NR_039871,rna-MIF | **MIR4720** | microRNA 4720 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616151 | NR_039700,rna-MIF | **MIR4480** | microRNA 4480 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616152 | NR_039968,rna-MIF | **MIR4804** | microRNA 4804 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616153 | NR_039879,rna-MIF | **MIR4726** | hsa-miR-4726-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616154 | NR_039676,rna-MIF | **MIR4466** | microRNA 4466 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616155 | NR_039764,rna-MIF | **MIR4536-1** | hsa-miR-4536-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616157 | NR_039930,rna-MIF | **MIR4772** | microRNA 4772 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616158 | NR_039727,rna-MIF | **MIR4505** | microRNA 4505 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616159 | NR_039939,rna-MIF | **MIR4779** | microRNA 4779 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616160 | NR_039799,rna-MIF | **MIR4655** | microRNA 4655 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616161 | NR_039958,rna-MIF | **MIR4795** | microRNA 4795 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616162 | NR_039703,rna-MIF | **MIR4483** | microRNA 4483 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616163 | NR_039755,rna-MIF | **MIR4530** | microRNA 4530 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616164 | NR_039616,rna-MIF | **MIR4420** | microRNA 4420 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616165 | NR_039929,rna-MIF | **MIR4771-2** | microRNA 4771-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616166 | NR_039959,rna-MIF | **MIR4796** | microRNA 4796 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616167 | NR_039873,rna-MIF | **MIR4722** | hsa-miR-4722-3p | . | 0 | 1 | 1 | 2 | 1.045 |
| 100616168 | NR_039910,rna-MIF | **MIR4754** | microRNA 4754 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616169 | NR_039602,rna-MIF | **MIR378D2** | microRNA 378d-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616170 | NR_039893,rna-MIF | **MIR4739** | microRNA 4739 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616171 | NR_039907,rna-MIF | **MIR4752** | microRNA 4752 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616172 | NR_039870,rna-MIF | **MIR4719** | microRNA 4719 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616173 | NR_039859,rna-MIF | **MIR203B** | microRNA 203b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616174 | NR_039786,rna-MIF | **MIR4643** | microRNA 4643 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616175 | NR_039776,rna-MIF | **MIR4633** | microRNA 4633 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616176 | NR_039857,rna-MIF | **MIR4708** | microRNA 4708 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616178 | NR_039784,rna-MIF | **MIR4641** | microRNA 4641 | miRNA | 1 | 0 | 2 | 1 | 0.594 |
| 100616179 | NR_039719,rna-MIF | **MIR4498** | microRNA 4498 | miRNA | 1 | 0 | 2 | 1 | 0.663 |
| 100616180 | NR_039675,rna-MIF | **MIR4465** | microRNA 4465 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616181 | NR_039739,rna-MIF | **MIR4514** | microRNA 4514 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616182 | NR_039722,rna-MIF | **MIR4500** | microRNA 4500 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616183 | NR_039738,rna-MIF | **MIR4513** | microRNA 4513 | miRNA | 0 | 1 | 1 | 2 | 1.025 |
| 100616184 | NR_039688,rna-MIF | **MIR4477A** | microRNA 4477a | miRNA | 0 | 0 | 1 | 1 | 0.966 |
| 100616185 | NR_039909,rna-MIF | **MIR371B** | microRNA 371b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616186 | NR_039711,rna-MIF | **MIR4490** | microRNA 4490 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616187 | NR_039944,rna-MIF | **MIR4783** | microRNA 4783 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616188 | NR_039768,rna-MIF | **MIR3972** | microRNA 3972 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616189 | NR_039617,rna-MIF | **MIR4421** | microRNA 4421 | miRNA | 0 | 0 | 1 | 1 | 1.372 |
| 100616190 | NR_039605,rna-MIF | **MIR548O2** | microRNA 548o-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616191 | NR_039673,rna-MIF | **MIR548AJ1** | microRNA 548aj-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616192 | NR_039827,rna-MIF | **MIR4679-2** | microRNA 4679-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616193 | NR_039658,rna-MIF | **MIR4453** | microRNA 4453 | miRNA | 0 | 0 | 1 | 1 | 1.002 |
| 100616194 | NR_039689,rna-MIF | **MIR4477B** | microRNA 4477b | miRNA | 7 | 8 | 8 | 9 | 1.067 |
| 100616195 | NR_039869,rna-MIF | **MIR4718** | hsa-miR-4718 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616196 | NR_039751,rna-MIF | **MIR4525** | microRNA 4525 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616201 | NR_039608,rna-MIF | **MIR378D1** | microRNA 378d-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616202 | NR_039777,rna-MIF | **MIR4634** | microRNA 4634 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616203 | NR_039887,rna-MIF | **MIR4734** | microRNA 4734 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616204 | NR_039882,rna-MIF | **MIR4729** | microRNA 4729 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616205 | NR_039853,rna-MIF | **MIR4704** | microRNA 4704 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616206 | NR_039796,rna-MIF | **MIR4652** | microRNA 4652 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616207 | NR_039641,rna-MIF | **MIR4439** | microRNA 4439 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616208 | NR_039943,rna-MIF | **MIR4782** | microRNA 4782 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616210 | NR_039890,rna-MIF | **MIR4737** | microRNA 4737 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100616211 | NR_039858,rna-MIF | **MIR4709** | microRNA 4709 | miRNA | 0 | 0 | 1 | 1 | 1.005 |
| 100616212 | NR_039696,rna-MIF | **MIR3689F** | microRNA 3689f | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616213 | NR_039637,rna-MIF | **MIR4437** | hsa-miR-4437 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616214 | NR_039813,rna-MIF | **MIR4667** | microRNA 4667 | miRNA | 0 | 0 | 1 | 1 | 0.693 |
| 100616215 | NR_039710,rna-MIF | **MIR548AL** | microRNA 548al | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616216 | NR_039960,rna-MIF | **MIR4797** | microRNA 4797 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616218 | NR_039668,rna-MIF | **MIR3135B** | microRNA 3135b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616219 | NR_039922,rna-MIF | **MIR4765** | microRNA 4765 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616220 | NR_039889,rna-MIF | **MIR4736** | microRNA 4736 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616221 | NR_039806,rna-MIF | **MIR4662A** | microRNA 4662a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616222 | NR_039707,rna-MIF | **MIR4487** | microRNA 4487 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616223 | NR_039732,rna-MIF | **MIR4509-1** | microRNA 4509-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616224 | NR_039908,rna-MIF | **MIR4753** | microRNA 4753 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616225 | NR_039913,rna-MIF | **MIR4756** | microRNA 4756 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616226 | NR_039678,rna-MIF | **MIR4468** | microRNA 4468 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616227 | NR_039724,rna-MIF | **MIR4502** | microRNA 4502 | miRNA | 0 | 0 | 1 | 1 | 0.780 |
| 100616228 | NR_039733,rna-MIF | **MIR4509-2** | microRNA 4509-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616229 | NR_039684,rna-MIF | **MIR4473** | microRNA 4473 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616230 | NR_039789,rna-MIF | **MIR4646** | hsa-miR-4646-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616231 | NR_039744,rna-MIF | **MIR4519** | microRNA 4519 | miRNA | 0 | 1 | 1 | 2 | 2.026 |
| 100616232 | NR_130465,rna-MIF | **MIR4528** | microRNA 4528 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616234 | NR_039659,rna-MIF | **MIR4454** | microRNA 4454 | miRNA | 0 | 0 | 1 | 1 | 0.928 |
| 100616235 | NR_039662,rna-MIF | **MIR4457** | microRNA 4457 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616236 | NR_039816,rna-MIF | **MIR4669** | microRNA 4669 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616237 | NR_039783,rna-MIF | **MIR4640** | microRNA 4640 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616238 | NR_039867,rna-MIF | **MIR3529** | microRNA 3529 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616239 | NR_039854,rna-MIF | **MIR4705** | microRNA 4705 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616240 | NR_039717,rna-MIF | **MIR4496** | microRNA 4496 | miRNA | 1 | 0 | 2 | 1 | 0.843 |
| 100616241 | NR_039868,rna-MIF | **MIR4717** | microRNA 4717 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616242 | NR_039820,rna-MIF | **MIR4673** | microRNA 4673 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616243 | NR_039916,rna-MIF | **MIR4759** | microRNA 4759 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616244 | NR_039772,rna-MIF | **MIR3976** | microRNA 3976 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616245 | NR_039805,rna-MIF | **MIR4661** | microRNA 4661 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616246 | NR_039962,rna-MIF | **MIR4799** | microRNA 4799 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616247 | NR_039601,rna-MIF | **MIR151B** | microRNA 151b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616248 | NR_039877,rna-MIF | **MIR4724** | microRNA 4724 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100616249 | NR_039925,rna-MIF | **MIR4768** | microRNA 4768 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616250 | NR_039767,rna-MIF | **MIR3960** | microRNA 3960 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616251 | NR_039763,rna-MIF | **MIR1587** | microRNA 1587 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616252 | NR_039674,rna-MIF | **MIR548AJ2** | microRNA 548aj-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616253 | NR_039919,rna-MIF | **MIR4762** | microRNA 4762 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616254 | NR_039655,rna-MIF | **MIR548AH** | microRNA 548ah | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616255 | NR_039809,rna-MIF | **MIR4662B** | microRNA 4662b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616256 | NR_039872,rna-MIF | **MIR4721** | microRNA 4721 | miRNA | 0 | 0 | 1 | 1 | 0.710 |
| 100616257 | NR_039771,rna-MIF | **MIR3975** | microRNA 3975 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616258 | NR_039741,rna-MIF | **MIR4516** | microRNA 4516 | miRNA | 0 | 0 | 1 | 1 | 1.072 |
| 100616259 | NR_039760,rna-MIF | **MIR378I** | microRNA 378i | miRNA | 0 | 0 | 1 | 1 | 1.014 |
| 100616260 | NR_039808,rna-MIF | **MIR4663** | microRNA 4663 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616261 | NR_039726,rna-MIF | **MIR4504** | microRNA 4504 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616262 | NR_039850,rna-MIF | **MIR4701** | microRNA 4701 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616263 | NR_039705,rna-MIF | **MIR4485** | microRNA 4485 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616264 | NR_039753,rna-MIF | **MIR4527** | microRNA 4527 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616265 | NR_039632,rna-MIF | **MIR4433A** | microRNA 4433a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616266 | NR_039886,rna-MIF | **MIR4733** | microRNA 4733 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616267 | NR_039935,rna-MIF | **MIR4776-1** | microRNA 4776-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616268 | NR_039682,rna-MIF | **MIR4472-1** | microRNA 4472-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616269 | NR_039782,rna-MIF | **MIR4639** | hsa-miR-4639-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616270 | NR_039795,rna-MIF | **MIR4651** | microRNA 4651 | miRNA | 0 | 0 | 1 | 1 | 1.075 |
| 100616271 | NR_039780,rna-MIF | **MIR4637** | microRNA 4637 | miRNA | 0 | 0 | 1 | 1 | 1.306 |
| 100616272 | NR_039618,rna-MIF | **MIR4422** | microRNA 4422 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616273 | NR_039876,rna-MIF | **MIR451B** | microRNA 451b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616274 | NR_039966,rna-MIF | **MIR4802** | microRNA 4802 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616275 | NR_039731,rna-MIF | **MIR4508** | microRNA 4508 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616276 | NR_130467,rna-MIF | **MIR4538** | microRNA 4538 | miRNA | 18 | 20 | 19 | 21 | 1.067 |
| 100616277 | NR_039748,rna-MIF | **MIR4522** | microRNA 4522 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616278 | NR_039766,rna-MIF | **MIR4540** | hsa-miR-4540 | . | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100616279 | NR_039770,rna-MIF | **MIR3974** | microRNA 3974 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616280 | NR_039725,rna-MIF | **MIR4503** | microRNA 4503 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616281 | NR_039951,rna-MIF | **MIR4788** | microRNA 4788 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616282 | NR_039892,rna-MIF | **MIR4738** | microRNA 4738 | miRNA | 0 | 0 | 1 | 1 | 1.043 |
| 100616283 | NR_039923,rna-MIF | **MIR4766** | microRNA 4766 | miRNA | 0 | 1 | 1 | 2 | 2.020 |
| 100616284 | NR_039709,rna-MIF | **MIR4489** | microRNA 4489 | miRNA | 0 | 1 | 1 | 2 | 1.748 |
| 100616285 | NR_039788,rna-MIF | **MIR4645** | microRNA 4645 | miRNA | 0 | 0 | 1 | 1 | 0.789 |
| 100616286 | NR_039823,rna-MIF | **MIR4676** | microRNA 4676 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616287 | NR_039716,rna-MIF | **MIR4495** | microRNA 4495 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616288 | NR_039811,rna-MIF | **MIR4665** | microRNA 4665 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616289 | NR_039686,rna-MIF | **MIR4475** | microRNA 4475 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616290 | NR_039754,rna-MIF | **MIR4529** | microRNA 4529 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616291 | NR_039954,rna-MIF | **MIR4791** | microRNA 4791 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616292 | NR_039839,rna-MIF | **MIR4690** | hsa-miR-4690-5p | . | 2 | 2 | 3 | 3 | 0.884 |
| 100616293 | NR_039735,rna-MIF | **MIR4510** | microRNA 4510 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616294 | NR_039894,rna-MIF | **MIR4740** | hsa-miR-4740-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616295 | NR_039921,rna-MIF | **MIR4764** | microRNA 4764 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616296 | NR_039825,rna-MIF | **MIR4678** | microRNA 4678 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616297 | NR_039773,rna-MIF | **MIR3977** | microRNA 3977 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616299 | NR_039654,rna-MIF | **MIR4450** | microRNA 4450 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616300 | NR_039860,rna-MIF | **MIR4710** | microRNA 4710 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616301 | NR_039821,rna-MIF | **MIR4674** | microRNA 4674 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616302 | NR_039692,rna-MIF | **MIR548X2** | microRNA 548x-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616303 | NR_039963,rna-MIF | **MIR3688-2** | microRNA 3688-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616304 | NR_039721,rna-MIF | **MIR4499** | microRNA 4499 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616305 | NR_039638,rna-MIF | **MIR548AE1** | microRNA 548ae-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616306 | NR_039667,rna-MIF | **MIR378H** | microRNA 378h | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616307 | NR_039914,rna-MIF | **MIR4757** | microRNA 4757 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616308 | NR_039812,rna-MIF | **MIR4666A** | microRNA 4666a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616309 | NR_039683,rna-MIF | **MIR4472-2** | microRNA 4472-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616310 | NR_039793,rna-MIF | **MIR4650-1** | microRNA 4650-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616311 | NR_039769,rna-MIF | **MIR3973** | microRNA 3973 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616312 | NR_039690,rna-MIF | **MIR4478** | microRNA 4478 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616313 | NR_039904,rna-MIF | **MIR4749** | microRNA 4749 | miRNA | 0 | 0 | 1 | 1 | 0.801 |
| 100616314 | NR_039905,rna-MIF | **MIR4750** | microRNA 4750 | miRNA | 1 | 2 | 2 | 3 | 1.586 |
| 100616315 | NR_039942,rna-MIF | **MIR4781** | microRNA 4781 | miRNA | 0 | 0 | 1 | 1 | 0.952 |
| 100616316 | NR_039750,rna-MIF | **MIR4524A** | microRNA 4524a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616317 | NR_039937,rna-MIF | **MIR4777** | microRNA 4777 | miRNA | 1 | 0 | 2 | 1 | 0.650 |
| 100616318 | NR_039810,rna-MIF | **MIR4664** | microRNA 4664 | miRNA | 1 | 1 | 2 | 2 | 1.132 |
| 100616319 | NR_039714,rna-MIF | **MIR4493** | microRNA 4493 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616320 | NR_039701,rna-MIF | **MIR4481** | microRNA 4481 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616321 | NR_039620,rna-MIF | **MIR378G** | microRNA 378g | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616322 | NR_039830,rna-MIF | **MIR4682** | microRNA 4682 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616323 | NR_039702,rna-MIF | **MIR4482** | microRNA 4482 | miRNA | 1 | 0 | 2 | 1 | 0.749 |
| 100616324 | NR_039947,rna-MIF | **MIR1245B** | microRNA 1245b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616325 | NR_039665,rna-MIF | **MIR4460** | microRNA 4460 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616326 | NR_039779,rna-MIF | **MIR4636** | microRNA 4636 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616327 | NR_039704,rna-MIF | **MIR4484** | microRNA 4484 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616328 | NR_039622,rna-MIF | **MIR4424** | microRNA 4424 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616329 | NR_039849,rna-MIF | **MIR4700** | microRNA 4700 | miRNA | 0 | 0 | 1 | 1 | 0.999 |
| 100616330 | NR_039712,rna-MIF | **MIR4491** | microRNA 4491 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616331 | NR_039794,rna-MIF | **MIR4650-2** | microRNA 4650-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616332 | NR_039866,rna-MIF | **MIR4716** | microRNA 4716 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616333 | NR_039691,rna-MIF | **MIR3689C** | microRNA 3689c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616334 | NR_039953,rna-MIF | **MIR4790** | microRNA 4790 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616335 | NR_039815,rna-MIF | **MIR219B** | microRNA 219b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616336 | NR_039611,rna-MIF | **MIR548AB** | microRNA 548ab | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616337 | NR_039902,rna-MIF | **MIR4747** | hsa-miR-4747-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616338 | NR_039957,rna-MIF | **MIR4794** | microRNA 4794 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616339 | NR_039639,rna-MIF | **MIR548AE2** | microRNA 548ae-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616340 | NR_039915,rna-MIF | **MIR4758** | microRNA 4758 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616341 | NR_039636,rna-MIF | **MIR4435-2** | microRNA 4435-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616342 | NR_039781,rna-MIF | **MIR4638** | microRNA 4638 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616343 | NR_039824,rna-MIF | **MIR4677** | microRNA 4677 | miRNA | 1 | 0 | 2 | 1 | 0.649 |
| 100616344 | NR_039694,rna-MIF | **MIR3689D2** | microRNA 3689d-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616345 | NR_039624,rna-MIF | **MIR4426** | microRNA 4426 | miRNA | 0 | 0 | 1 | 1 | 1.054 |
| 100616346 | NR_039792,rna-MIF | **MIR4649** | microRNA 4649 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616347 | NR_039672,rna-MIF | **MIR548AI** | microRNA 548ai | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616348 | NR_039803,rna-MIF | **MIR4659A** | microRNA 4659a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616349 | NR_039656,rna-MIF | **MIR4451** | microRNA 4451 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616350 | NR_039804,rna-MIF | **MIR4660** | microRNA 4660 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616351 | NR_039817,rna-MIF | **MIR4670** | microRNA 4670 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616352 | NR_039785,rna-MIF | **MIR4642** | microRNA 4642 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616354 | NR_039600,rna-MIF | **MIR550A3** | microRNA 550a-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616355 | NR_039756,rna-MIF | **MIR4531** | microRNA 4531 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616356 | NR_039933,rna-MIF | **MIR4774** | microRNA 4774 | miRNA | 0 | 0 | 1 | 1 | 0.794 |
| 100616357 | NR_039899,rna-MIF | **MIR3591** | microRNA 3591 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616358 | NR_039964,rna-MIF | **MIR4800** | microRNA 4800 | miRNA | 0 | 0 | 1 | 1 | 0.996 |
| 100616359 | NR_039883,rna-MIF | **MIR4730** | microRNA 4730 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616360 | NR_039948,rna-MIF | **MIR2467** | microRNA 2467 | miRNA | 0 | 0 | 1 | 1 | 1.043 |
| 100616361 | NR_039934,rna-MIF | **MIR4775** | microRNA 4775 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 100616362 | NR_039758,rna-MIF | **MIR4533** | microRNA 4533 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616363 | NR_039888,rna-MIF | **MIR4735** | microRNA 4735 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616364 | NR_039946,rna-MIF | **MIR4785** | microRNA 4785 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616365 | NR_039623,rna-MIF | **MIR4425** | microRNA 4425 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616366 | NR_039897,rna-MIF | **MIR4743** | microRNA 4743 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616367 | NR_039677,rna-MIF | **MIR4467** | microRNA 4467 | miRNA | 0 | 0 | 1 | 1 | 0.757 |
| 100616368 | NR_039837,rna-MIF | **MIR4688** | microRNA 4688 | miRNA | 0 | 0 | 1 | 1 | 1.323 |
| 100616369 | NR_039863,rna-MIF | **MIR4713** | microRNA 4713 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616370 | NR_039928,rna-MIF | **MIR4771-1** | microRNA 4771-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616371 | NR_039901,rna-MIF | **MIR4746** | microRNA 4746 | miRNA | 3 | 1 | 4 | 2 | 0.401 |
| 100616372 | NR_039807,rna-MIF | **MIR4659B** | microRNA 4659b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616373 | NR_039927,rna-MIF | **MIR4770** | microRNA 4770 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616374 | NR_130468,rna-MIF | **MIR4539** | hsa-miR-4539 | . | 29 | 28 | 30 | 29 | 0.967 |
| 100616375 | NR_039640,rna-MIF | **MIR4438** | microRNA 4438 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616376 | NR_039713,rna-MIF | **MIR4492** | microRNA 4492 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616377 | NR_039967,rna-MIF | **MIR4803** | microRNA 4803 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616378 | NR_039945,rna-MIF | **MIR4784** | microRNA 4784 | miRNA | 3 | 4 | 4 | 5 | 1.265 |
| 100616379 | NR_039736,rna-MIF | **MIR4511** | microRNA 4511 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616380 | NR_039818,rna-MIF | **MIR4671** | microRNA 4671 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616381 | NR_039661,rna-MIF | **MIR4456** | microRNA 4456 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616382 | NR_039734,rna-MIF | **MIR4509-3** | microRNA 4509-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616383 | NR_039822,rna-MIF | **MIR4675** | microRNA 4675 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616384 | NR_039621,rna-MIF | **MIR548AC** | microRNA 548ac | miRNA | 0 | 0 | 1 | 1 | 0.692 |
| 100616385 | NR_039885,rna-MIF | **MIR4732** | microRNA 4732 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616386 | NR_039798,rna-MIF | **MIR4654** | microRNA 4654 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616387 | NR_039891,rna-MIF | **MIR3064** | microRNA 3064 | miRNA | 80 | 87 | 81 | 88 | 1.084 |
| 100616388 | NR_039875,rna-MIF | **MIR4723** | microRNA 4723 | miRNA | 0 | 0 | 1 | 1 | 1.051 |
| 100616389 | NR_039670,rna-MIF | **MIR4463** | microRNA 4463 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616390 | NR_039625,rna-MIF | **MIR4427** | microRNA 4427 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616391 | NR_039832,rna-MIF | **MIR4684** | microRNA 4684 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616392 | NR_039931,rna-MIF | **MIR4773-1** | microRNA 4773-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616393 | NR_039801,rna-MIF | **MIR4657** | microRNA 4657 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 100616394 | NR_039646,rna-MIF | **MIR4444-1** | microRNA 4444-1 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 100616395 | NR_039952,rna-MIF | **MIR4789** | microRNA 4789 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616396 | NR_039862,rna-MIF | **MIR4712** | microRNA 4712 | miRNA | 6 | 3 | 7 | 4 | 0.593 |
| 100616397 | NR_039642,rna-MIF | **MIR4440** | microRNA 4440 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616398 | NR_039829,rna-MIF | **MIR4681** | microRNA 4681 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616399 | NR_039635,rna-MIF | **MIR4436A** | microRNA 4436a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616400 | NR_039851,rna-MIF | **MIR3198-2** | microRNA 3198-2 | miRNA | 0 | 0 | 1 | 1 | 1.003 |
| 100616401 | NR_039745,rna-MIF | **MIR4520-1** | microRNA 4520-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616402 | NR_039845,rna-MIF | **MIR4696** | microRNA 4696 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616403 | NR_039840,rna-MIF | **MIR4691** | microRNA 4691 | miRNA | 1 | 3 | 2 | 4 | 1.712 |
| 100616404 | NR_039740,rna-MIF | **MIR4515** | microRNA 4515 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616405 | NR_039743,rna-MIF | **MIR4518** | microRNA 4518 | miRNA | 1 | 0 | 2 | 1 | 0.624 |
| 100616406 | NR_039746,rna-MIF | **MIR4521** | microRNA 4521 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100616407 | NR_039645,rna-MIF | **MIR4443** | microRNA 4443 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616408 | NR_039969,rna-MIF | **MIR5047** | microRNA 5047 | miRNA | 84 | 89 | 85 | 90 | 1.062 |
| 100616409 | NR_039861,rna-MIF | **MIR4711** | microRNA 4711 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616410 | NR_039841,rna-MIF | **MIR4692** | microRNA 4692 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616413 | NR_039669,rna-MIF | **MIR4462** | microRNA 4462 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616414 | NR_039918,rna-MIF | **MIR4761** | microRNA 4761 | miRNA | 0 | 0 | 1 | 1 | 1.134 |
| 100616415 | NR_039761,rna-MIF | **MIR4535** | microRNA 4535 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616416 | NR_039880,rna-MIF | **MIR4727** | microRNA 4727 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616417 | NR_039949,rna-MIF | **MIR4786** | microRNA 4786 | miRNA | 1 | 6 | 2 | 7 | 3.357 |
| 100616418 | NR_039932,rna-MIF | **MIR4773-2** | microRNA 4773-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616419 | NR_039633,rna-MIF | **MIR4434** | microRNA 4434 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616420 | NR_039898,rna-MIF | **MIR4744** | microRNA 4744 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616421 | NR_039838,rna-MIF | **MIR4689** | microRNA 4689 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616422 | NR_130466,rna-MIF | **MIR4537** | microRNA 4537 | miRNA | 32 | 35 | 33 | 36 | 1.070 |
| 100616423 | NR_039852,rna-MIF | **MIR4703** | microRNA 4703 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616424 | NR_039856,rna-MIF | **MIR4707** | microRNA 4707 | miRNA | 0 | 0 | 1 | 1 | 0.969 |
| 100616425 | NR_039903,rna-MIF | **MIR4748** | microRNA 4748 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616426 | NR_039843,rna-MIF | **MIR4694** | microRNA 4694 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616428 | NR_039762,rna-MIF | **MIR548AM** | microRNA 548am | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616429 | NR_039819,rna-MIF | **MIR4672** | microRNA 4672 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616430 | NR_039787,rna-MIF | **MIR4644** | microRNA 4644 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616431 | NR_039630,rna-MIF | **MIR4431** | microRNA 4431 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616432 | NR_039864,rna-MIF | **MIR4714** | microRNA 4714 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616433 | NR_039613,rna-MIF | **MIR4418** | microRNA 4418 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616434 | NR_039911,rna-MIF | **MIR4755** | microRNA 4755 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616435 | NR_039965,rna-MIF | **MIR4801** | microRNA 4801 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616436 | NR_039651,rna-MIF | **MIR4449** | microRNA 4449 | miRNA | 1 | 1 | 2 | 2 | 0.848 |
| 100616437 | NR_039836,rna-MIF | **MIR1343** | microRNA 1343 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616438 | NR_039775,rna-MIF | **MIR4632** | hsa-miR-4632-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616439 | NR_039802,rna-MIF | **MIR4658** | microRNA 4658 | miRNA | 0 | 0 | 1 | 1 | 1.139 |
| 100616440 | NR_039653,rna-MIF | **MIR548AG2** | microRNA 548ag-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616441 | NR_039685,rna-MIF | **MIR4474** | microRNA 4474 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616447 | NR_039940,rna-MIF | **MIR4780** | microRNA 4780 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616449 | NR_039878,rna-MIF | **MIR4725** | microRNA 4725 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616450 | NR_039652,rna-MIF | **MIR548AG1** | microRNA 548ag-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616451 | NR_039681,rna-MIF | **MIR4471** | microRNA 4471 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616452 | NR_039604,rna-MIF | **MIR2682** | microRNA 2682 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616453 | NR_039835,rna-MIF | **MIR4687** | microRNA 4687 | miRNA | 0 | 0 | 1 | 1 | 0.997 |
| 100616454 | NR_039718,rna-MIF | **MIR4497** | microRNA 4497 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616455 | NR_039610,rna-MIF | **MIR548H5** | microRNA 548h-5 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616456 | NR_039687,rna-MIF | **MIR4476** | microRNA 4476 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616457 | NR_039842,rna-MIF | **MIR4693** | microRNA 4693 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616459 | NR_039900,rna-MIF | **MIR4745** | microRNA 4745 | miRNA | 1 | 1 | 2 | 2 | 0.924 |
| 100616460 | NR_039695,rna-MIF | **MIR3689E** | microRNA 3689e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616463 | NR_039657,rna-MIF | **MIR4452** | microRNA 4452 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616464 | NR_039938,rna-MIF | **MIR4778** | microRNA 4778 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616465 | NR_039800,rna-MIF | **MIR4656** | microRNA 4656 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616466 | NR_039874,rna-MIF | **MIR4520-2** | hsa-miR-4520-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616467 | NR_039924,rna-MIF | **MIR4767** | microRNA 4767 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616468 | NR_039896,rna-MIF | **MIR4742** | hsa-miR-4742-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616469 | NR_039627,rna-MIF | **MIR4429** | microRNA 4429 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616470 | NR_039708,rna-MIF | **MIR4488** | microRNA 4488 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616471 | NR_039961,rna-MIF | **MIR4798** | microRNA 4798 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616472 | NR_039936,rna-MIF | **MIR4776-2** | microRNA 4776-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616473 | NR_039631,rna-MIF | **MIR4432** | hsa-miR-4432 | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616474 | NR_039865,rna-MIF | **MIR4715** | microRNA 4715 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616475 | NR_039629,rna-MIF | **MIR548AD** | microRNA 548ad | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616476 | NR_039648,rna-MIF | **MIR4446** | microRNA 4446 | miRNA | 1 | 0 | 2 | 1 | 0.651 |
| 100616477 | NR_039644,rna-MIF | **MIR4442** | microRNA 4442 | miRNA | 2 | 1 | 3 | 2 | 0.638 |
| 100616478 | NR_039715,rna-MIF | **MIR4494** | microRNA 4494 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616479 | NR_039778,rna-MIF | **MIR4635** | microRNA 4635 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616480 | NR_039697,rna-MIF | **MIR4479** | microRNA 4479 | miRNA | 0 | 1 | 1 | 2 | 2.099 |
| 100616481 | NR_039619,rna-MIF | **MIR4423** | microRNA 4423 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616482 | NR_039833,rna-MIF | **MIR4685** | hsa-miR-4685-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100616483 | NR_039906,rna-MIF | **MIR4751** | microRNA 4751 | miRNA | 0 | 0 | 1 | 1 | 1.002 |
| 100616484 | NR_039680,rna-MIF | **MIR4470** | microRNA 4470 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616485 | NR_039649,rna-MIF | **MIR4447** | microRNA 4447 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616486 | NR_039847,rna-MIF | **MIR4698** | microRNA 4698 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616487 | NR_039742,rna-MIF | **MIR4517** | microRNA 4517 | miRNA | 7 | 8 | 8 | 9 | 1.146 |
| 100616488 | NR_039699,rna-MIF | **MIR548AK** | microRNA 548ak | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616490 | NR_039855,rna-MIF | **MIR4706** | microRNA 4706 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616491 | NR_039774,rna-MIF | **MIR3978** | microRNA 3978 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616492 | NR_039615,rna-MIF | **MIR378F** | microRNA 378f | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616493 | NR_039643,rna-MIF | **MIR4441** | microRNA 4441 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616494 | NR_039747,rna-MIF | **MIR1269B** | microRNA 1269b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616495 | NR_039729,rna-MIF | **MIR2392** | microRNA 2392 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616498 | NR_039609,rna-MIF | **MIR378E** | microRNA 378e | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616499 | NR_039634,rna-MIF | **MIR4435-1** | microRNA 4435-1 | miRNA | 0 | 0 | 1 | 1 | 1.093 |
| 100616500 | NR_039831,rna-MIF | **MIR4683** | microRNA 4683 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100616530 | NR_038201,NR_03 | **C8orf37-AS1** | C8orf37 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.673 |
| 100616668 | NR_038258,NR_03 | **TPTE2P5** | transmembrane phospho | transcribed_pseu | 0 | 0 | 1 | 1 | 1.055 |
| 100628307 | NR_038355 | **DIO2-AS1** | DIO2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100628315 | NR_038397,NR_10 | **DNM3OS** | DNM3 opposite strand/a | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100628560 | NR_039698,rna-MIF | **MIR3155B** | microRNA 3155b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100629121 | gene-LOC10062912 | **LOC100629121** | endonuclease domain co | pseudogene | 0 | 0 | 1 | 1 | 0.917 |
| 100630918 | NR_038942 | **PARTICL** | promoter of MAT2A antis | lncRNA | 5 | 4 | 6 | 5 | 0.813 |
| 100630919 | gene-LOC10063091 | **LOC100630919** | thymosin beta 4 X-linked | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 100630920 | gene-RPL10P18 | **RPL10P18** | ribosomal protein L10 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100630923 | NR_038967 | **LOC100630923** | LOC100289561-PRKRIP | lncRNA | 11 | 16 | 12 | 17 | 1.419 |
| 100631239 | gene-KRT18P67 | **KRT18P67** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631253 | gene-TBC1D3P4 | **TBC1D3P4** | TBC1 domain family mer | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631254 | gene-CSPG4P11 | **CSPG4P11** | chondroitin sulfate prote | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631255 | gene-LOC1006312 | **LOC100631255** | arginine and serine rich | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631265 | gene-LOC1006312 | **LOC100631265** | M-phase phosphoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631266 | gene-LOC1006312 | **LOC100631266** | M-phase phosphoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631268 | gene-LOC1006312 | **LOC100631268** | M-phase phosphoprotein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631269 | gene-SLC10A5P1 | **SLC10A5P1** | SLC10A5 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631378 | NR_040015 | **LOC100631378** | uncharacterized 100631 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100631380 | gene-LOC1006313 | **LOC100631380** | protein phosphatase 6, r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631381 | gene-PPP6R2P1 | **PPP6R2P1** | protein phosphatase 6 re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100631382 | gene-ZFAND6P1 | **ZFAND6P1** | zinc finger AN1-type con | pseudogene | 0 | 0 | 1 | 1 | 0.943 |
| 100631383 | NM_001242939 | **FAM47E-STBD1** | FAM47E-STBD1 readthro | protein_coding | 4 | 0 | 5 | 1 | 0.251 |
| 100642175 | NR_131221 | **SPRY4-IT1** | SPRY4 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100642176 | gene-LINC00266-4P | **LINC00266-4P** | long intergenic non-prote | pseudogene | 0 | 0 | 1 | 1 | 0.983 |
| 100652730 | NR_046224,NR_04 | **LINC00659** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 1.025 |
| 100652736 | NR_103767 | **LINC01311** | long intergenic non-prote | lncRNA | 4 | 3 | 5 | 4 | 0.952 |
| 100652739 | NR_045126,NR_04 | **RAET1E-AS1** | RAET1E antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 100652740 | NR_102400 | **PYCARD-AS1** | PYCARD antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.155 |
| 100652748 | NM_001290117,NM | **TIMM23B** | translocase of inner mito | protein_coding | 5 | 6 | 6 | 7 | 1.177 |
| 100652749 | NR_102753,NR_10 | **SPATA8-AS1** | SPATA8 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652758 | NR_132345,NR_13 | **LOC100652758** | uncharacterized LOC100 | lncRNA | 3 | 2 | 4 | 3 | 0.730 |
| 100652759 | NR_045697 | **PRICKLE2-AS1** | PRICKLE2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652768 | NR_045215 | **LOC100652768** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 1.001 |
| 100652770 | NR_045216 | **DSG2-AS1** | DSG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652772 | NR_073113 | **NNT-AS1** | NNT antisense RNA 1 | lncRNA | 16 | 14 | 17 | 15 | 0.893 |
| 100652777 | XM_011522789,XM | **LOC100652777** | group 10 secretory phos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100652781 | NR_045011 | **SNX29P1** | sorting nexin 29 pseudo | transcribed_pseu | 0 | 1 | 1 | 2 | 1.196 |
| 100652791 | NR_045217 | **GS1-24F4.2** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652794 | gene-LOC1006527 | **LOC100652794** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652796 | gene-BOLA2P1 | **BOLA2P1** | bolA family member 2 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652801 | gene-NXT1P1 | **NXT1P1** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652813 | gene-LOC1006528 | **LOC100652813** | zinc finger protein 138 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652824 | NM_001277372,NM | **KIAA2012** | KIAA2012 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100652831 | gene-NANOGNBP3 | **NANOGNBP3** | NANOGNB pseudogene | pseudogene | 1 | 0 | 2 | 1 | 0.945 |
| 100652833 | XM_011543783 | **LOC100652833** | putative POM121-like pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100652840 | gene-LOC1006528 | **LOC100652840** | M-phase phosphoprotein | pseudogene | 1 | 1 | 2 | 2 | 0.658 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100652846 | NR_045725 | **CACNA1C-AS1** | CACNA1C antisense RN | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 100652853 | NR_046368 | **LINC01023** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652856 | NR_104118 | **LINC00408** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652857 | NR_046005 | **TMCO5B** | transmembrane and coil | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100652865 | NR_103840,NR_10 | **LINC00539** | long intergenic non-prote | lncRNA | 3 | 2 | 4 | 3 | 0.765 |
| 100652871 | XM_011530666 | **LOC100652871** | glutathione S-transferase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100652883 | NR_045985 | **ALOX15P1** | arachidonate 15-lipoxyge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100652897 | gene-LOC10065289 | **LOC100652897** | density regulated re-initia | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652899 | gene-ANP32BP3 | **ANP32BP3** | acidic nuclear phosphop | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652908 | gene-LOC10065290 | **LOC100652908** | GRB2 related adaptor pr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652909 | NR_046222 | **LINC00904** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652911 | NR_146451 | **LINC01838** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652929 | NR_109783 | **LINC02078** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652931 | NR_104151 | **LOC100652931** | RNA binding motif protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100652955 | gene-LOC10065295 | **LOC100652955** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652976 | gene-LOC10065297 | **LOC100652976** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100652988 | NR_108040 | **LINC00702** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652997 | NR_108074 | **LINC00706** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100652999 | NR_046221 | **LOC100652999** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100653233 | NR_120505 | **LOC100653233** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100653395 | gene-LOC10065339 | **LOC100653395** | methionine adenosyltran | pseudogene | 7 | 7 | 8 | 8 | 1.102 |
| 100653396 | gene-YPEL5P3 | **YPEL5P3** | YPEL5 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100653423 | gene-BANF1P4 | **BANF1P4** | BANF1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100653515 | NM_001243540,NM | **CEP295NL** | CEP295 N-terminal like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100689073 | NR_146782 | **ARHGAP22-IT1** | ARHGAP22 intronic trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100689074 | NR_138047 | **POU6F2-AS2** | POU6F2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100689229 | gene-H3P12 | **H3P12** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100689296 | gene-CNN2P11 | **CNN2P11** | calponin 2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100750225 | NR_045262 | **PCAT1** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100750246 | NR_047116 | **HIF1A-AS1** | HIF1A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.113 |
| 100750247 | NR_045406 | **HIF1A-AS2** | HIF1A antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 100750325 | NR_045407,NR_04 | **RCAN3AS** | RCAN3 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.113 |
| 100750326 | NR_045414 | **HTT-AS** | HTT antisense RNA | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100775104 | NR_046220 | **KLHL7-DT** | KLHL7 divergent transcri | lncRNA | 2 | 2 | 3 | 3 | 0.879 |
| 100775107 | NR_045388 | **RBM5-AS1** | RBM5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100820709 | NR_047465 | **LINC00501** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100820732 | gene-LSM1P1 | **LSM1P1** | LSM1 homolog, mRNA d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100820733 | gene-LOC10082073 | **LOC100820733** | LSM2 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100820734 | gene-LOC10082073 | **LOC100820734** | LSM2 homolog, U6 smal | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100820829 | NM_001018100,NM | **MYZAP** | myocardial zonula adher | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100846978 | NR_047469,NR_10 | **LINC00506** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846991 | NR_049829,rna-MIR | **MIR5197** | microRNA 5197 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846992 | NR_049862,rna-MIR | **MIR548AW** | microRNA 548aw | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846993 | NR_049807,rna-MIR | **MIR5009** | microRNA 5009 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846994 | NR_049832,rna-MIR | **MIR3670-2** | microRNA 3670-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846995 | NR_049796,rna-MIR | **MIR5000** | microRNA 5000 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846996 | NR_049804,rna-MIR | **MIR5007** | microRNA 5007 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846997 | NR_049848,rna-MIR | **MIR5583-2** | hsa-miR-5583-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100846998 | NR_049872,rna-MIR | **MIR5689** | microRNA 5689 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100846999 | NR_049831,rna-MIR | **MIR4444-2** | microRNA 4444-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847000 | NR_049841,rna-MIR | **MIR5579** | hsa-miR-5579-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847001 | NR_049859,rna-MIR | **MIR5680** | microRNA 5680 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847002 | NR_049809,rna-MIR | **MIR5011** | microRNA 5011 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847003 | NR_049878,rna-MIR | **MIR5693** | microRNA 5693 | miRNA | 0 | 0 | 1 | 1 | 0.942 |
| 100847004 | NR_049820,rna-MIR | **MIR5188** | microRNA 5188 | miRNA | 0 | 1 | 1 | 2 | 1.235 |
| 100847005 | NR_049895,rna-MIR | **MIR5701-2** | microRNA 5701-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847006 | NR_049835,rna-MIR | **MIR5571** | microRNA 5571 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847007 | NR_049881,rna-MIR | **MIR5696** | microRNA 5696 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847008 | NR_049834,rna-MIR | **MIR4524B** | microRNA 4524b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847009 | NR_049854,rna-MIR | **MIR1295B** | hsa-miR-1295b-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847010 | NR_049844,rna-MIR | **MIR5581** | hsa-miR-5581-3p | . | 4 | 1 | 5 | 2 | 0.395 |
| 100847012 | NR_049800,rna-MIR | **MIR5004** | microRNA 5004 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847013 | NR_049889,rna-MIR | **MIR5692B** | microRNA 5692b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847014 | NR_049836,rna-MIR | **MIR5100** | microRNA 5100 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847015 | NR_049874,rna-MIR | **MIR5691** | microRNA 5691 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847016 | NR_049880,rna-MIR | **MIR5695** | microRNA 5695 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847017 | NR_049868,rna-MIR | **MIR5692C2** | microRNA 5692c-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847018 | NR_049850,rna-MIR | **MIR5585** | hsa-miR-5585-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847019 | NR_049869,rna-MIR | **MIR5687** | microRNA 5687 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847020 | NR_049846,rna-MIR | **MIR5582** | hsa-miR-5582-3p | . | 0 | 0 | 1 | 1 | 1.425 |
| 100847021 | NR_049798,rna-MIR | **MIR5002** | microRNA 5002 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847022 | NR_049816,rna-MIR | **MIR5093** | microRNA 5093 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847023 | NR_049814,rna-MIR | **MIR5091** | microRNA 5091 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847024 | NR_049883,rna-MIR | **MIR5698** | microRNA 5698 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847025 | NR_049847,rna-MIR | **MIR5583-1** | hsa-miR-5583-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847026 | NR_049803,rna-MIR | **MIR5006** | microRNA 5006 | miRNA | 0 | 0 | 1 | 1 | 1.306 |
| 100847027 | NR_049891,rna-MIR | **MIR5705** | microRNA 5705 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847028 | NR_049852,rna-MIR | **MIR5587** | hsa-miR-5587-5p | . | 1 | 2 | 2 | 3 | 1.479 |
| 100847029 | NR_049799,rna-MIR | **MIR5003** | microRNA 5003 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847030 | NR_049845,rna-MIR | **MIR548AT** | hsa-miR-548at-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847031 | NR_049885,rna-MIR | **MIR5700** | microRNA 5700 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847032 | NR_049893,rna-MIR | **MIR5707** | microRNA 5707 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847033 | NR_049830,rna-MIR | **MIR4436B2** | microRNA 4436b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847034 | NR_049863,rna-MIR | **MIR5683** | microRNA 5683 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847035 | NR_049839,rna-MIR | **MIR548AR** | hsa-miR-548ar-5p | . | 1 | 1 | 2 | 2 | 0.995 |
| 100847036 | NR_049818,rna-MIR | **MIR5186** | microRNA 5186 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847037 | NR_049797,rna-MIR | **MIR5001** | microRNA 5001 | miRNA | 0 | 1 | 1 | 2 | 1.406 |
| 100847038 | NR_049876,rna-MIR | **MIR5692A2** | microRNA 5692a-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847039 | NR_049815,rna-MIR | **MIR5092** | microRNA 5092 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847040 | NR_049890,rna-MIR | **MIR5704** | microRNA 5704 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847041 | NR_049833,rna-MIR | **MIR3680-2** | microRNA 3680-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847042 | NR_049837,rna-MIR | **MIR5572** | microRNA 5572 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847043 | NR_049861,rna-MIR | **MIR5682** | microRNA 5682 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847044 | NR_049810,rna-MIR | **MIR5087** | microRNA 5087 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847045 | NR_049853,rna-MIR | **MIR548AU** | hsa-miR-548au-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847046 | NR_049808,rna-MIR | **MIR5010** | microRNA 5010 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847047 | NR_049877,rna-MIR | **MIR4666B** | microRNA 4666b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847048 | NR_049873,rna-MIR | **MIR5690** | microRNA 5690 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847049 | NR_049795,rna-MIR | **MIR4999** | microRNA 4999 | miRNA | 0 | 0 | 1 | 1 | 0.914 |
| 100847050 | NR_049823,rna-MIR | **MIR5191** | microRNA 5191 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847051 | NR_049826,rna-MIR | **MIR5194** | microRNA 5194 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847052 | NR_049842,rna-MIR | **MIR664B** | hsa-miR-664b-5p | . | 0 | 0 | 1 | 1 | 1.042 |
| 100847053 | NR_049887,rna-MIR | **MIR5702** | microRNA 5702 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847054 | NR_106712,rna-MIR | **MIR5588** | hsa-miR-5588-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847055 | NR_049882,rna-MIR | **MIR5697** | microRNA 5697 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847056 | NR_049894,rna-MIR | **MIR5708** | microRNA 5708 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847057 | NR_049821,rna-MIR | **MIR5189** | microRNA 5189 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847058 | NR_049860,rna-MIR | **MIR5681A** | microRNA 5681a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847059 | NR_049817,rna-MIR | **MIR5094** | microRNA 5094 | miRNA | 0 | 0 | 1 | 1 | 0.723 |
| 100847060 | NR_049886,rna-MIR | **MIR5701-1** | microRNA 5701-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847061 | NR_130469,rna-MIR | **MIR4536-2** | microRNA 4536-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847062 | NR_049827,rna-MIR | **MIR5195** | microRNA 5195 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847063 | NR_049865,rna-MIR | **MIR548AX** | microRNA 548ax | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847064 | NR_049879,rna-MIR | **MIR5694** | microRNA 5694 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847065 | NR_049857,rna-MIR | **MIR5591** | hsa-miR-5591-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847066 | NR_049875,rna-MIR | **MIR5692A1** | microRNA 5692a-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847067 | NR_049812,rna-MIR | **MIR5089** | microRNA 5089 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847068 | NR_049801,rna-MIR | **MIR548AO** | microRNA 548ao | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847069 | NR_049856,rna-MIR | **MIR5590** | hsa-miR-5590-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847070 | NR_049828,rna-MIR | **MIR5196** | microRNA 5196 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847071 | NR_049864,rna-MIR | **MIR5684** | microRNA 5684 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847072 | NR_049806,rna-MIR | **MIR5008** | microRNA 5008 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847073 | NR_049813,rna-MIR | **MIR5090** | microRNA 5090 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847074 | NR_049811,rna-MIR | **MIR5088** | microRNA 5088 | miRNA | 0 | 1 | 1 | 2 | 1.860 |
| 100847075 | NR_049866,rna-MIR | **MIR5685** | microRNA 5685 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847076 | NR_049843,rna-MIR | **MIR5580** | hsa-miR-5580-3p | . | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100847077 | NR_049870,rna-MIF | **MIR5688** | microRNA 5688 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847078 | NR_049838,rna-MIF | **MIR548AQ** | hsa-miR-548aq-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847079 | NR_049825,rna-MIF | **MIR5193** | microRNA 5193 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847080 | NR_049822,rna-MIF | **MIR5190** | microRNA 5190 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847081 | NR_049888,rna-MIF | **MIR5703** | microRNA 5703 | miRNA | 0 | 0 | 1 | 1 | 0.831 |
| 100847082 | NR_049867,rna-MIF | **MIR5692C1** | microRNA 5692c-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847083 | NR_049858,rna-MIF | **MIR548AV** | hsa-miR-548av-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847084 | NR_049805,rna-MIF | **MIR548AP** | microRNA 548ap | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847085 | NR_049892,rna-MIF | **MIR5706** | microRNA 5706 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847086 | NR_049884,rna-MIF | **MIR5699** | microRNA 5699 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847087 | NR_049824,rna-MIF | **MIR5192** | microRNA 5192 | miRNA | 0 | 0 | 1 | 1 | 0.942 |
| 100847088 | NR_049851,rna-MIF | **MIR5586** | hsa-miR-5586-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847089 | NR_049849,rna-MIF | **MIR5584** | hsa-miR-5584-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847090 | NR_049819,rna-MIF | **MIR5187** | microRNA 5187 | miRNA | 1 | 1 | 2 | 2 | 1.205 |
| 100847091 | NR_049871,rna-MIF | **MIR5681B** | microRNA 5681b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100847092 | NR_049840,rna-MIF | **MIR548AS** | hsa-miR-548as-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100847093 | NR_049855,rna-MIF | **MIR5589** | hsa-miR-5589-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 100852406 | NR_046571 | **POTEH-AS1** | POTEH antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100852407 | NR_046580 | **CARS1-AS1** | CARS1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100852408 | NR_046219 | **EGFLAM-AS4** | EGFLAM antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100852409 | NR_046218 | **NEGR1-IT1** | NEGR1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100852410 | NR_046217 | **ZRANB2-AS2** | ZRANB2 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.262 |
| 100856791 | gene-LOC1008567 | **LOC100856791** | TBP-like 1 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100856811 | NR_104156,NR_10 | **NRG1-IT1** | NRG1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100856877 | gene-SETP15 | **SETP15** | SET pseudogene 15 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100856878 | gene-SETP21 | **SETP21** | SET pseudogene 21 | pseudogene | 0 | 0 | 1 | 1 | 0.811 |
| 100859919 | gene-LOC1008599 | **LOC100859919** | chromosome 9 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100859920 | gene-HIGD1AP3 | **HIGD1AP3** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100859921 | NR_046215 | **LINC00536** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100859924 | gene-SUMO2P2 | **SUMO2P2** | SUMO2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100859926 | gene-NANOGNBP1 | **NANOGNBP1** | NANOGNB pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100859930 | NR_045680 | **HEIH** | hepatocellular carcinoma | lncRNA | 32 | 36 | 33 | 37 | 1.134 |
| 100861402 | NR_045786,NR_04 | **CERS6-AS1** | CERS6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.041 |
| 100861412 | NM_001256141 | **FSBP** | fibrinogen silencer bindir | protein_coding | 0 | 1 | 1 | 2 | 2.214 |
| 100861430 | gene-PDCD6IPP1 | **PDCD6IPP1** | PDCD6IP pseudogene 1 | pseudogene | 2 | 2 | 3 | 3 | 1.008 |
| 100861431 | gene-YBX1P7 | **YBX1P7** | Y-box binding protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861435 | gene-SRIP3 | **SRIP3** | sorcin pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861443 | gene-DNAJC19P3 | **DNAJC19P3** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861445 | gene-DNAJC19P2 | **DNAJC19P2** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861449 | gene-DNAJC19P6 | **DNAJC19P6** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861455 | gene-DNAJC19P8 | **DNAJC19P8** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861458 | gene-DNAJC19P7 | **DNAJC19P7** | DnaJ heat shock protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861468 | NR_047462 | **LINC00492** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861504 | NR_046189 | **LINC00538** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861506 | NR_046624 | **LINC00903** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861507 | NM_001350598 | **FTCD-AS1** | FTCD antisense RNA 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100861510 | NR_047476 | **LRRC3-DT** | LRRC3 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861513 | NR_046659 | **ZMYM4-AS1** | ZMYM4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 100861514 | NR_104120 | **ELMO1-AS1** | ELMO1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861516 | NR_130894 | **RAI1-AS1** | RAI1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861517 | NR_146806 | **OCIAD1-AS1** | OCIAD1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861518 | NR_047470 | **P4HA2-AS1** | P4HA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861519 | NR_103441,NR_14 | **GDNF-AS1** | GDNF antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861520 | NR_046711 | **POU6F2-AS1** | POU6F2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861522 | NR_047461 | **LINC00489** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861523 | NR_046644 | **RPS6KA2-AS1** | RPS6KA2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861530 | XR_001744265,XR_ | **UFL1-AS1** | UFL1 antisense RNA 1, t | lncRNA | 0 | 0 | 1 | 1 | 1.054 |
| 100861540 | NM_001256497 | **CYP3A7-CYP3A51P** | CYP3A7-CYP3A51P rea | protein_coding | 0 | 0 | 1 | 1 | 1.022 |
| 100861541 | NR_047482 | **DOCK9-DT** | DOCK9 divergent transcr | lncRNA | 1 | 1 | 2 | 2 | 0.857 |
| 100861542 | NR_047483 | **LINC00554** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861544 | NR_047487 | **LINC00557** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861545 | NR_047491 | **LINC00561** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861546 | NR_047494 | **LINC00564** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861547 | NR_131903 | **LINC00566** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861548 | NR_046507 | **PINK1-AS** | PINK1 antisense RNA | antisense_RNA | 6 | 6 | 7 | 7 | 1.007 |
| 100861549 | NR_047492 | **LINC00562** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.989 |
| 100861550 | NR_047484 | **PLUT** | PDX1 associated lncRNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861552 | NR_047488 | **LINC00558** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 100861553 | NR_047490 | **LINC00560** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861554 | NR_047493 | **LINC00563** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.947 |
| 100861555 | NR_047495 | **LINC00565** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861556 | gene-YBX1P3 | **YBX1P3** | Y-box binding protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861563 | NR_148359 | **SCAANT1** | SCA7/ATXN7 antisense I | antisense_RNA | 0 | 0 | 1 | 1 | 0.904 |
| 100861569 | gene-YBX1P5 | **YBX1P5** | Y-box binding protein 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100861573 | NR_047501 | **LINC00572** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100861574 | gene-SNRPGP6 | **SNRPGP6** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862662 | NR_046383 | **ALDH1L1-AS2** | ALDH1L1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100862664 | gene-RNY4P24 | **RNY4P24** | RNY4 pseudogene 24 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862665 | gene-RNY4P25 | **RNY4P25** | RNY4 pseudogene 25 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862668 | gene-RNY3P2 | **RNY3P2** | RNY3 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862671 | NM_001256829 | **TMEM265** | transmembrane protein 2 | protein_coding | 4 | 5 | 5 | 6 | 1.170 |
| 100862674 | gene-RNY4P31 | **RNY4P31** | RNY4 pseudogene 31 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862679 | NR_046390 | **NAALADL2-AS3** | NAALADL2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100862680 | NR_046392 | **LINC00507** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100862682 | gene-LOC1008626 | **LOC100862682** | nucleus accumbens ass | pseudogene | 1 | 0 | 2 | 1 | 0.942 |
| 100862692 | NR_046400 | **DIP2A-IT1** | DIP2A intronic transcript | lncRNA | 0 | 1 | 1 | 2 | 1.505 |
| 100862704 | NR_046414 | **RB1-DT** | RB1 divergent transcript | lncRNA | 1 | 0 | 2 | 1 | 0.845 |
| 100862705 | gene-KANK1P1 | **KANK1P1** | KN motif and ankyrin rep | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862725 | gene-TIMM9P3 | **TIMM9P3** | TIMM9 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862726 | gene-TIMM9P1 | **TIMM9P1** | TIMM9 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100862728 | NR_046420 | **UPK1A-AS1** | UPK1A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100862852 | gene-SLAMF6P1 | **SLAMF6P1** | SLAM family member 6 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873065 | NR_073010 | **PTCHD1-AS** | PTCHD1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873165 | NR_104189 | **SRGAP2-AS1** | SRGAP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873166 | gene-SETP7 | **SETP7** | SET pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873745 | gene-RNU6-10P | **RNU6-10P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873746 | gene-RNU6-14P | **RNU6-14P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873747 | gene-RNU6-30P | **RNU6-30P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873749 | gene-RNU6-34P | **RNU6-34P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873750 | gene-RNU6-35P | **RNU6-35P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873751 | gene-PHBP14 | **PHBP14** | prohibitin pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873754 | gene-RNU6-19P | **RNU6-19P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873755 | gene-RNU6-23P | **RNU6-23P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873756 | gene-RNU6-28P | **RNU6-28P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873757 | gene-RNU6-36P | **RNU6-36P** | RNA, U6 small nuclear 3 | pseudogene | 7 | 8 | 8 | 9 | 1.125 |
| 100873758 | gene-RNU6-39P | **RNU6-39P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873759 | gene-RNU6-45P | **RNU6-45P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 0.734 |
| 100873760 | gene-RNU6-46P | **RNU6-46P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873783 | gene-UBBP5 | **UBBP5** | ubiquitin B pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873784 | gene-PFN1P11 | **PFN1P11** | profilin 1 pseudogene 11 | pseudogene | 0 | 1 | 1 | 2 | 1.576 |
| 100873786 | gene-TMSB10P2 | **TMSB10P2** | thymosin beta 10 pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873787 | gene-GPM6BP3 | **GPM6BP3** | glycoprotein M6B pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873789 | gene-AK3P6 | **AK3P6** | adenylate kinase 3 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873790 | gene-FHP1 | **FHP1** | fumarate hydratase pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873792 | gene-CBX3P4 | **CBX3P4** | chromobox 3 pseudogen | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873793 | gene-PHF2P2 | **PHF2P2** | PHD finger protein 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873796 | gene-RPL35P9 | **RPL35P9** | ribosomal protein L35 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873801 | gene-RNY4P23 | **RNY4P23** | RNY4 pseudogene 23 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873808 | gene-RNY3P4 | **RNY3P4** | RNY3 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873817 | gene-RPL7AP73 | **RPL7AP73** | ribosomal protein L7a ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873818 | gene-RPS3AP52 | **RPS3AP52** | RPS3A pseudogene 52 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873821 | gene-RNY4P27 | **RNY4P27** | RNY4 pseudogene 27 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873823 | gene-RNY4P29 | **RNY4P29** | RNY4 pseudogene 29 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873825 | gene-RNU2-6P | **RNU2-6P** | RNA, U2 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873856 | NR_047032 | **SNORD116-30** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873857 | NR_047033 | **SNORD115-46** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100873859 | gene-RPL18AP17 | **RPL18AP17** | ribosomal protein L18a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873860 | gene-RNU1-16P | **RNU1-16P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873878 | gene-MORF4L1P6 | **MORF4L1P6** | mortality factor 4 like 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873879 | gene-HMGB3P9 | **HMGB3P9** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873892 | gene-HMGB1P29 | **HMGB1P29** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.074 |
| 100873895 | gene-HMGB1P38 | **HMGB1P38** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873896 | gene-HMGB1P41 | **HMGB1P41** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873897 | gene-HMGB1P47 | **HMGB1P47** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873898 | gene-HMGB3P12 | **HMGB3P12** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873899 | gene-HMGB3P14 | **HMGB3P14** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873903 | gene-HSPA9P2 | **HSPA9P2** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873905 | gene-HMGB1P33 | **HMGB1P33** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873906 | gene-HMGB1P42 | **HMGB1P42** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873908 | gene-HMGB3P25 | **HMGB3P25** | high mobility group box 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873911 | gene-DUTP5 | **DUTP5** | deoxyuridine triphosphat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873914 | gene-DUTP8 | **DUTP8** | deoxyuridine triphosphat | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100873917 | NR_046623 | **LPP-AS1** | LPP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873919 | NR_046631 | **NDP-AS1** | NDP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873920 | NR_046632 | **NHS-AS1** | NHS antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873921 | NR_046649 | **SYP-AS1** | SYP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873922 | NR_046657 | **ZFX-AS1** | ZFX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873924 | NR_046901 | **HLX-AS1** | HLX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873930 | NR_046586,NR_109 | **DLG3-AS1** | DLG3 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.929 |
| 100873932 | NR_046590 | **DPYD-AS1** | DPYD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873933 | NR_046591 | **DPYD-AS2** | DPYD antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873935 | NR_046600 | **MTOR-AS1** | MTOR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873937 | NR_046606 | **GRM7-AS1** | GRM7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873939 | NR_046622 | **LNX1-AS1** | LNX1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873940 | NR_046629 | **MYLK-AS2** | MYLK antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873941 | NR_046634 | **OPA1-AS1** | OPA1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873942 | NR_046639 | **PHEX-AS1** | PHEX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873944 | NR_046643 | **PRKX-AS1** | PRKX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873945 | NR_046648 | **HLTF-AS1** | HLTF antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873946 | NR_046653 | **VAV3-AS1** | VAV3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873947 | NR_046669 | **LMLN-AS1** | LMLN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873948 | NR_046678 | **NREP-AS1** | NREP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873949 | NR_046696 | **IPO9-AS1** | IPO9 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.712 |
| 100873951 | NR_046710 | **MLIP-AS1** | MLIP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873952 | NR_046744 | **SZT2-AS1** | SZT2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873954 | NR_046757 | **SNRK-AS1** | SNRK antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 100873955 | NR_046827 | **LNX1-AS2** | LNX1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873962 | NR_046502 | **LINC00278** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.850 |
| 100873963 | NR_138045 | **LINC00279** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873964 | NR_046505 | **LINC00280** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873965 | NR_046511 | **MED4-AS1** | MED4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 100873969 | NR_046520,NR_049 | **GPC5-AS1** | GPC5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873970 | NR_120382 | **GPC5-AS2** | GPC5 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873972 | NR_046535 | **GPC6-AS1** | GPC6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873973 | NR_046536 | **GPC6-AS2** | GPC6 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873974 | NR_046546 | **LINC02586** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.922 |
| 100873975 | NR_046554 | **CNTN4-AS1** | CNTN4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873976 | NR_046555 | **CNTN4-AS2** | CNTN4 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873977 | NR_046556 | **RBMS3-AS1** | RBMS3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873979 | NR_109804 | **RBMS3-AS3** | RBMS3 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873980 | NR_046559 | **RERG-AS1** | RERG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873982 | NR_046570 | **ABCC5-AS1** | ABCC5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873983 | NR_046575 | **MAGI1-AS1** | MAGI1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873984 | NR_046582 | **CHRM3-AS1** | CHRM3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873985 | NM_001289773 | **MED14OS** | MED14 opposite strand | protein_coding | 1 | 1 | 2 | 2 | 1.135 |
| 100873986 | NR_046596 | **FGF12-AS1** | FGF12 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873987 | NR_046598 | **FGF12-AS2** | FGF12 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873989 | NR_049724 | **GRM5-AS1** | GRM5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873990 | NR_046608 | **HCFC1-AS1** | HCFC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873993 | NR_046615 | **ITIH4-AS1** | ITIH4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873995 | NR_046619 | **KCND3-AS1** | KCND3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873997 | NR_046621 | **KCNQ5-AS1** | KCNQ5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100873998 | NR_046625 | **MEIS1-AS2** | MEIS1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874001 | NR_046630 | **NCBP2-AS1** | NCBP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 100874002 | NR_046635 | **OXCT1-AS1** | OXCT1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 100874004 | NR_046642 | **PPEF1-AS1** | PPEF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874006 | NR_046651 | **TTC3-AS1** | TTC3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874007 | NR_046654 | **VIPR1-AS1** | VIPR1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874010 | NR_046664 | **NLGN1-AS1** | NLGN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874011 | NR_046665 | **XIRP2-AS1** | XIRP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874012 | NR_049725 | **NAV2-AS5** | NAV2 antisense RNA 5 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874014 | NR_046672 | **NAV2-AS2** | NAV2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874016 | NR_046677 | **SYNPR-AS1** | SYNPR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874018 | NR_048576 | **EPN2-AS1** | EPN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874019 | NR_046687 | **KLHL6-AS1** | KLHL6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874021 | NR_046689 | **MAGI2-AS2** | MAGI2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874027 | NR_046722 | **TPRG1-AS2** | TPRG1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874028 | NR_132785 | **SGO1-AS1** | SGO1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.170 |
| 100874029 | NR_046728 | **CFAP44-AS1** | CFAP44 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874031 | NR_046730 | **AGBL5-AS1** | AGBL5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874032 | NR_046734 | **PRRT3-AS1** | PRRT3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.887 |
| 100874034 | NR_046745 | **UBXN7-AS1** | UBXN7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.166 |
| 100874036 | NR_146955 | **PLCH1-AS2** | PLCH1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874037 | NR_046752 | **CADM2-AS2** | CADM2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874039 | NR_104326 | **THOC7-AS1** | THOC7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874041 | NR_046756 | **MACC1-AS1** | MACC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874042 | NR_046853 | **HM13-AS1** | HM13 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874043 | NR_046873 | **TPRG1-AS1** | TPRG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874044 | NR_146957 | **HHATL-AS1** | HHATL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874045 | gene-MEAF6P1 | **MEAF6P1** | MYST/Esa1-associated f | pseudogene | 0 | 0 | 1 | 1 | 0.953 |
| 100874047 | NR_051987 | **LINC00499** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874048 | NR_104029,NR_104 | **DGUOK-AS1** | DGUOK antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874051 | NR_047509 | **LZTS1-AS1** | LZTS1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874052 | NR_051989 | **LINC00534** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874053 | NR_047481 | **JRKL-AS1** | JRKL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874054 | NR_051960 | **FALEC** | focally amplified long no | lncRNA | 0 | 1 | 1 | 2 | 1.134 |
| 100874055 | NR_047499 | **LINC00570** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874056 | NR_046504 | **NLGN4Y-AS1** | NLGN4Y antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874058 | NR_049718 | **COX10-AS1** | COX10 antisense RNA 1 | lncRNA | 9 | 6 | 10 | 7 | 0.719 |
| 100874059 | NR_046510 | **LINC00297** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874060 | gene-SPATA20P1 | **SPATA20P1** | spermatogenesis associa | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874063 | NR_046526 | **CLYBL-AS2** | CLYBL antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874064 | NR_046527 | **PCDH9-AS2** | PCDH9 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874068 | NR_046541,NR_120 | **GRTP1-AS1** | GRTP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874069 | NR_046542 | **STK24-AS1** | STK24 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 100874070 | NR_046547 | **USP12-AS1** | USP12 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874071 | NR_046548 | **USP12-AS2** | USP12 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.168 |
| 100874073 | NR_146963 | **FREM2-AS1** | FREM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874074 | NR_046551 | **DLEU7-AS1** | DLEU7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 100874078 | NR_046592 | **EIF1AX-AS1** | EIF1AX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874079 | NR_046593 | **LINC01840** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874081 | NR_125912 | **FGF14-AS1** | FGF14 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874082 | NR_046612,NR_103 | **HTR2A-AS1** | HTR2A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874083 | NR_046617 | **KCNAB1-AS2** | KCNAB1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874084 | NR_046618 | **KCNAB1-AS1** | KCNAB1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874085 | NR_046633 | **NUCB1-AS1** | NUCB1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874086 | NR_046636 | **PCDH9-AS3** | PCDH9 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874087 | NR_046637 | **PCDH9-AS4** | PCDH9 antisense RNA 4 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874088 | NR_046638 | **PCYT1B-AS1** | PCYT1B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874089 | NR_046645 | **RUVBL1-AS1** | RUVBL1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874090 | NR_046647 | **SLC6A1-AS1** | SLC6A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874091 | NR_046650,NR_109 | **TM4SF1-AS1** | TM4SF1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100874092 | NR_046652 | **UBE2E1-AS1** | UBE2E1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874093 | NR_046655 | **BRWD1-AS1** | BRWD1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874094 | NR_046658 | **ZNF197-AS1** | ZNF197 antisense RNA : | lncRNA | 0 | 2 | 1 | 3 | 1.750 |
| 100874095 | NR_046662 | **ADIPOQ-AS1** | ADIPOQ antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874096 | NR_046663 | **DOCK9-AS1** | DOCK9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874097 | NR_046668 | **UBE2Q1-AS1** | UBE2Q1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874100 | NR_110029 | **STEAP2-AS1** | STEAP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874101 | NR_046690 | **HDAC11-AS1** | HDAC11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874102 | NR_046691 | **HS6ST2-AS1** | HS6ST2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874107 | NR_046378 | **MTUS2-AS1** | MTUS2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874110 | NR_046719 | **GLYCTK-AS1** | GLYCTK antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874111 | NR_046721 | **STEAP3-AS1** | STEAP3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874113 | NR_046727 | **YEATS2-AS1** | YEATS2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 100874114 | NR_046732 | **CCDC13-AS1** | CCDC13 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874115 | NR_046733 | **PLCXD2-AS1** | PLCXD2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874118 | NR_046740 | **INTS6L-AS1** | INTS6L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874120 | NR_046742 | **ZNF630-AS1** | ZNF630 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874122 | NR_046750 | **FRMPD3-AS1** | FRMPD3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874123 | NR_046851 | **ZNRF3-AS1** | ZNRF3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874126 | NR_046869 | **LINC00331** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874127 | NR_046870 | **LINC00332** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874128 | NR_046871 | **LINC00333** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874130 | NR_120399 | **ENOX1-AS2** | ENOX1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874131 | NR_046877 | **ZBTB20-AS4** | ZBTB20 antisense RNA 4 | lncRNA | 0 | 0 | 1 | 1 | 1.126 |
| 100874136 | NR_046988 | **LINC00350** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874137 | NR_046989 | **LINC00351** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874139 | NR_046991 | **LINC00353** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874143 | NR_046995 | **LINC00358** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874145 | NR_130792 | **LINC00364** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.868 |
| 100874146 | NR_046998 | **LINC00365** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874147 | NR_046999 | **LINC00366** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874150 | NR_047004 | **LINC00379** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874151 | NR_047005 | **LINC00381** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874155 | NR_047009 | **LINC00392** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874156 | XR_001749747 | **LINC00393** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874157 | NR_047011 | **LINC00395** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874158 | NR_047012 | **LINC00398** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.007 |
| 100874159 | NR_047013 | **LINC00400** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874161 | NR_047015 | **LINC00411** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874164 | NR_047508 | **LINC00417** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.654 |
| 100874167 | NR_047020 | **LINC00423** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874168 | NR_047021 | **LINC00433** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874169 | NR_047022 | **LINC00434** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874172 | NR_047025 | **LINC00440** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874173 | NR_047026 | **LINC00443** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874175 | NR_047028 | **LINC00446** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874176 | NR_047029,NR_12( | **LINC00448** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874178 | NR_047035 | **LINC00454** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874179 | NR_047036 | **LINC00457** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874180 | NR_047038 | **LINC00459** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874182 | NR_047040 | **LINC00424** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874183 | gene-NCOR1P3 | **NCOR1P3** | NCOR1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874184 | NR_047467 | **LINC00502** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874185 | NR_047477,NR_05: | **FRMD6-AS2** | FRMD6 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874187 | NR_047489 | **LINC00559** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874188 | NR_047500 | **LINC00571** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.233 |
| 100874190 | NR_046512 | **SAMSN1-AS1** | SAMSN1 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.133 |
| 100874191 | gene-RANP2 | **RANP2** | RAN pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 100874192 | gene-RANP7 | **RANP7** | RAN pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874194 | NR_046533 | **CLDN10-AS1** | CLDN10 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874195 | NR_046539,NR_05: | **DIAPH3-AS1** | DIAPH3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874196 | NR_046540 | **DIAPH3-AS2** | DIAPH3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874197 | NR_046563 | **EFCAB6-AS1** | EFCAB6 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874198 | NR_046567 | **SHANK2-AS1** | SHANK2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874200 | NR_046572 | **ARHGEF3-AS1** | ARHGEF3 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874201 | NR_046574 | **B4GALT4-AS1** | B4GALT4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874203 | NR_046583 | **COL4A2-AS1** | COL4A2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874204 | NR_046602 | **ALDH1L1-AS1** | ALDH1L1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874205 | NR_046661,NR_10! | **ATP11A-AS1** | ATP11A antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874206 | NR_049771 | **OSBPL10-AS1** | OSBPL10 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874207 | NR_046683 | **ST3GAL6-AS1** | ST3GAL6 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874208 | NR_046685 | **NDFIP2-AS1** | NDFIP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874211 | NR_046706 | **MID1IP1-AS1** | MID1IP1 antisense RNA | lncRNA | 4 | 3 | 5 | 4 | 0.747 |
| 100874212 | NR_046716 | **MYCBP2-AS1** | MYCBP2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874214 | NR_046724,NR_12! | **TM4SF19-AS1** | TM4SF19 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 100874216 | NR_046731 | **ZNF385D-AS1** | ZNF385D antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874218 | NR_046758 | **ATP13A5-AS1** | ATP13A5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874219 | NR_046852 | **TMEM212-AS1** | TMEM212 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874220 | gene-PCNPP4 | **PCNPP4** | PEST containing nuclear | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874221 | NR_046876 | **ZNF385D-AS2** | ZNF385D antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874222 | NR_047001 | **OBI1-AS1** | OBI1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 100874223 | gene-FTOP1 | **FTOP1** | FTO pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874226 | NR_046516 | **ARHGEF7-AS1** | ARHGEF7 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874227 | gene-RANP3 | **RANP3** | RAN pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.817 |
| 100874231 | NR_046531 | **SPATA13-AS1** | SPATA13 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874234 | NR_046578 | **CACNA1C-AS4** | CACNA1C antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874235 | NR_046579 | **CACNA1C-AS2** | CACNA1C antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874236 | NR_052004 | **COL18A1-AS2** | COL18A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874237 | NR_046666 | **CACNA2D3-AS1** | CACNA2D3 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874238 | NR_046667 | **ARHGEF7-AS2** | ARHGEF7 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874239 | NR_046680 | **ARHGAP26-AS1** | ARHGAP26 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874241 | NR_046693 | **STARD13-AS** | STARD13 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874242 | NR_046701 | **PRICKLE2-AS2** | PRICKLE2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874243 | NR_046702 | **PRICKLE2-AS3** | PRICKLE2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874244 | NR_046713 | **NAALADL2-AS2** | NAALADL2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874245 | NR_046714 | **NAALADL2-AS1** | NAALADL2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874246 | NR_046748 | **ARHGAP31-AS1** | ARHGAP31 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 100874249 | NR_046909 | **DENND5B-AS1** | DENND5B antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874251 | NR_046986 | **KIRREL3-AS2** | KIRREL3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874252 | gene-USP32P4 | **USP32P4** | ubiquitin specific peptida | pseudogene | 5 | 4 | 6 | 5 | 0.801 |
| 100874253 | NR_047498 | **LINC00853** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.874 |
| 100874255 | NR_046552 | **RNASEH2B-AS1** | RNASEH2B antisense RI | lncRNA | 2 | 2 | 3 | 3 | 1.013 |
| 100874259 | NR_047031 | **SLC25A30-AS1** | SLC25A30 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874260 | NR_144562 | **UBE2CP5** | ubiquitin conjugating en: | transcribed_pseu | 9 | 6 | 10 | 7 | 0.738 |
| 100874261 | NM_001363254,NR | **CCDC200** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100874264 | NR_046764 | **AOAH-IT1** | AOAH intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874270 | NR_046780 | **HAO2-IT1** | HAO2 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874273 | NR_046798 | **TGFA-IT1** | TGFA intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874275 | NR_046811 | **LINC01216** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874278 | NR_046817,NR_11( | **ERI3-IT1** | ERI3 intronic transcript 1 | lncRNA | 1 | 2 | 2 | 3 | 1.121 |
| 100874281 | NR_046820 | **NTM-IT** | NTM intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874282 | NR_046832 | **MLIP-IT1** | MLIP intronic transcript 1 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 100874284 | NR_046845 | **DNM3-IT1** | DNM3 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874286 | NR_047475 | **NRG1-IT3** | NRG1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874291 | NR_046762 | **ALMS1-IT1** | ALMS1 intronic transcript | lncRNA | 2 | 2 | 3 | 3 | 0.941 |
| 100874295 | NR_046783 | **KCND3-IT1** | KCND3 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874296 | NR_046784 | **KCNH1-IT1** | KCNH1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874300 | NR_046796 | **SYNJ2-IT1** | SYNJ2 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874309 | NR_046824 | **EPN2-IT1** | EPN2 intronic transcript : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874313 | NR_046839 | **AGBL4-IT1** | AGBL4 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874317 | gene-FABP7P2 | **FABP7P2** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874322 | NR_046564 | **BACH1-IT2** | BACH1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874323 | NR_046609 | **HOXA10-AS** | HOXA10 antisense RNA | lncRNA | 9 | 7 | 10 | 8 | 0.754 |
| 100874325 | NR_046766 | **ATP2B2-IT2** | ATP2B2 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874326 | NR_046774 | **DSCAM-IT1** | DSCAM intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874330 | NR_046786 | **LINC01014** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 100874334 | NR_046797 | **TCF7L1-IT1** | TCF7L1 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874337 | NR_046809 | **PLCB1-IT1** | PLCB1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874342 | NR_046834 | **RNF216-IT1** | RNF216 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874343 | NR_046836 | **HS1BP3-IT1** | HS1BP3 intronic transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874353 | NR_046793 | **RPS6KA2-IT1** | RPS6KA2 intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874355 | NR_138419 | **ARHGEF9-IT1** | ARHGEF9 intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874360 | gene-GRPEL2P1 | **GRPEL2P1** | GRPEL2 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874361 | NR_047115 | **PPP2R2B-IT1** | PPP2R2B intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874362 | NR_102279 | **HOXB-AS1** | HOXB cluster antisense | lncRNA | 10 | 10 | 11 | 11 | 0.956 |
| 100874363 | NR_047504 | **HOXC-AS1** | HOXC cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874364 | NR_047505 | **HOXC-AS2** | HOXC cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874365 | NR_047506 | **HOXC-AS3** | HOXC cluster antisense | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874366 | NR_047507 | **HOXC13-AS** | HOXC13 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874369 | NR_046768 | **CACNA1C-IT2** | CACNA1C intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874370 | NR_046769 | **CACNA1C-IT3** | CACNA1C intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874372 | NR_046816 | **ARHGAP26-IT1** | ARHGAP26 intronic trans | lncRNA | 0 | 0 | 1 | 1 | 0.927 |
| 100874374 | NR_046840 | **ARHGEF38-IT1** | ARHGEF38 intronic trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874375 | NR_046848 | **FAM155A-IT1** | FAM155A intronic transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874377 | NR_046843 | **SMIM2-IT1** | SMIM2 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874381 | gene-NPIPP1 | **NPIPP1** | nuclear pore complex int | pseudogene | 4 | 5 | 5 | 6 | 1.223 |
| 100874385 | gene-HNRNPKP5 | **HNRNPKP5** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874386 | gene-OSTCP5 | **OSTCP5** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874387 | gene-OSTCP6 | **OSTCP6** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874388 | gene-OSTCP8 | **OSTCP8** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 0.784 |
| 100874391 | gene-OSTCP7 | **OSTCP7** | oligosaccharyltransferas | pseudogene | 0 | 0 | 1 | 1 | 0.993 |
| 100874396 | gene-HNRNPA1P24 | **HNRNPA1P24** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 100874399 | gene-IMPDH1P10 | **IMPDH1P10** | inosine monophosphate | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874400 | gene-HNRNPA1P18 | **HNRNPA1P18** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874402 | gene-HNRNPA1P19 | **HNRNPA1P19** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874403 | gene-ERHP2 | **ERHP2** | ERH pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874406 | gene-FAM106DP | **FAM106DP** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874407 | gene-SNRPGP3 | **SNRPGP3** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874408 | gene-SNRPGP7 | **SNRPGP7** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874411 | gene-SNRPFP2 | **SNRPFP2** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874413 | gene-SNRPEP5 | **SNRPEP5** | SNRPE pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874414 | gene-SNRPEP6 | **SNRPEP6** | SNRPE pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874415 | gene-SNRPEP7 | **SNRPEP7** | SNRPE pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874417 | gene-TIMM8BP2 | **TIMM8BP2** | translocase of inner mito | pseudogene | 0 | 0 | 1 | 1 | 1.060 |
| 100874418 | gene-SNRPGP5 | **SNRPGP5** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874419 | gene-IPPKP1 | **IPPKP1** | inositol 1,3,4,5,6-pentaki | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874424 | gene-SNRPEP10 | **SNRPEP10** | SNRPE pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874425 | gene-TIMM8BP1 | **TIMM8BP1** | translocase of inner mito | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874426 | gene-SNRPGP11 | **SNRPGP11** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874428 | gene-SNRPGP13 | **SNRPGP13** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874433 | NR_121669 | **IQCJ-SCHIP1-AS1** | IQCJ-SCHIP1 readthrou | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874435 | gene-HIGD1AP4 | **HIGD1AP4** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874437 | gene-HIGD1AP7 | **HIGD1AP7** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874444 | gene-HMGN1P18 | **HMGN1P18** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 100874447 | gene-HMGN1P34 | **HMGN1P34** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874448 | gene-HMGN1P35 | **HMGN1P35** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.989 |
| 100874450 | gene-HIGD1AP2 | **HIGD1AP2** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874452 | gene-HIGD1AP9 | **HIGD1AP9** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874453 | gene-HIGD1AP11 | **HIGD1AP11** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874455 | gene-HIGD1AP14 | **HIGD1AP14** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.092 |
| 100874456 | gene-HIGD1AP18 | **HIGD1AP18** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874457 | gene-CASP1P1 | **CASP1P1** | caspase 1 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874458 | gene-HMGN2P14 | **HMGN2P14** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874459 | gene-HMGN1P20 | **HMGN1P20** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874460 | gene-HMGN1P22 | **HMGN1P22** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874462 | gene-HMGN1P24 | **HMGN1P24** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874463 | gene-HMGN1P27 | **HMGN1P27** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874464 | gene-HMGN1P28 | **HMGN1P28** | high mobility group nucl | pseudogene | 0 | 1 | 1 | 2 | 1.034 |
| 100874466 | gene-HMGN2P19 | **HMGN2P19** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 100874467 | gene-HMGN2P21 | **HMGN2P21** | high mobility group nucl | pseudogene | 1 | 2 | 2 | 3 | 1.214 |
| 100874468 | gene-HMGN2P22 | **HMGN2P22** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874469 | gene-HMGN2P23 | **HMGN2P23** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.032 |
| 100874471 | gene-HMGN2P27 | **HMGN2P27** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100874472 | gene-HMGN2P29 | **HMGN2P29** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874473 | gene-HMGN2P32 | **HMGN2P32** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.917 |
| 100874474 | gene-HMGN2P33 | **HMGN2P33** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874475 | gene-HMGN2P45 | **HMGN2P45** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874476 | gene-HIGD1AP16 | **HIGD1AP16** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874477 | gene-HIGD1AP17 | **HIGD1AP17** | HIG1 hypoxia inducible d | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874478 | gene-HMGN2P34 | **HMGN2P34** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874479 | gene-HMGN2P35 | **HMGN2P35** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874480 | gene-HMGN2P36 | **HMGN2P36** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.005 |
| 100874481 | gene-HMGN2P37 | **HMGN2P37** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874482 | gene-HMGN2P38 | **HMGN2P38** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874483 | gene-HMGN2P39 | **HMGN2P39** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874484 | gene-HMGN2P40 | **HMGN2P40** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.913 |
| 100874485 | gene-HMGN2P42 | **HMGN2P42** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.081 |
| 100874486 | gene-HMGN2P43 | **HMGN2P43** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874487 | gene-HMGN2P44 | **HMGN2P44** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874488 | gene-NIPA2P5 | **NIPA2P5** | NIPA2 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874491 | gene-EEF1A1P41 | **EEF1A1P41** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874494 | gene-CYP46A4P | **CYP46A4P** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874498 | gene-SPTLC1P2 | **SPTLC1P2** | serine palmitoyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874499 | gene-SPTLC1P3 | **SPTLC1P3** | serine palmitoyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874500 | gene-SPTLC1P4 | **SPTLC1P4** | serine palmitoyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874503 | gene-ATP6V0E1P2 | **ATP6V0E1P2** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874509 | gene-CHCHD2P7 | **CHCHD2P7** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874511 | gene-SPTLC1P1 | **SPTLC1P1** | serine palmitoyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.197 |
| 100874512 | gene-SPTLC1P5 | **SPTLC1P5** | serine palmitoyltransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874515 | gene-POLR2KP1 | **POLR2KP1** | RNA polymerase II subu | pseudogene | 1 | 0 | 2 | 1 | 0.755 |
| 100874520 | gene-PCMTD1P1 | **PCMTD1P1** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100874521 | gene-ST13P22 | **ST13P22** | ST13, Hsp70 interacting | pseudogene | 1 | 0 | 2 | 1 | 0.758 |
| 100874528 | NR_104188 | **XXYLT1-AS1** | XXYLT1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874530 | NR_104187 | **APOBEC3B-AS1** | APOBEC3B antisense R | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100874531 | NR_103790 | **LINC00581** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100884169 | gene-LOC10088416 | **LOC100884169** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100885775 | NR_047671 | **BANCR** | BRAF-activated non-prot | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885776 | NR_047679 | **UGDH-AS1** | UGDH antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.033 |
| 100885777 | NR_047686 | **PCCA-AS1** | PCCA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885778 | NR_047687 | **NALCN-AS1** | NALCN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885779 | NR_048536,NR_152 | **LINC-ROR** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885780 | NR_047698 | **VWC2L-IT1** | VWC2L intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885781 | NR_047699 | **LINC00348** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885782 | NR_047700 | **MYO16-AS1** | MYO16 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885789 | NR_104124,NR_104 | **IFNG-AS1** | IFNG antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.743 |
| 100885795 | NR_048543 | **LARS2-AS1** | LARS2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885796 | NR_048544 | **SLC9A9-AS1** | SLC9A9 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885797 | gene-BPY2DP | **BPY2DP** | basic charge Y-linked 2D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100885798 | NR_048550 | **LINC00210** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100885799 | gene-ENO1P4 | **ENO1P4** | enolase 1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.046 |
| 100885848 | NM_001142653,NM | **PTGES3L** | prostaglandin E synthas | protein_coding | 0 | 0 | 1 | 1 | 1.111 |
| 100885850 | NM_001136042,NM | **PTGES3L-AARSD1** | PTGES3L-AARSD1 read | protein_coding | 0 | 0 | 1 | 1 | 1.208 |
| 100885865 | gene-HMGN1P29 | **HMGN1P29** | high mobility group nucl | pseudogene | 1 | 0 | 2 | 1 | 0.852 |
| 100886964 | NR_049735 | **PTCSC3** | papillary thyroid carcinor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100887067 | gene-KRT8P48 | **KRT8P48** | keratin 8 pseudogene 48 | pseudogene | 0 | 0 | 1 | 1 | 0.947 |
| 100887068 | gene-KRT8P52 | **KRT8P52** | keratin 8 pseudogene 52 | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 100887075 | gene-ARHGAP42P1 | **ARHGAP42P1** | ARHGAP42 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100887076 | gene-LOC10088707 | **LOC100887076** | apical junction compone | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100887080 | gene-LOC10088708 | **LOC100887080** | acyl-CoA synthetase me | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100887744 | gene-RNU6-48P | **RNU6-48P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.004 |
| 100887746 | gene-UNC93B7 | **UNC93B7** | unc-93 homolog B7 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100887747 | gene-EEF1A1P18 | **EEF1A1P18** | eukaryotic translation elc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100887748 | gene-UNC93B8 | **UNC93B8** | unc-93 homolog B8 (pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100887750 | NR_002816,NR_05 | **MRPS31P5** | mitochondrial ribosomal | transcribed_pseu | 12 | 14 | 13 | 15 | 1.086 |
| 100887754 | NR_051966 | **LINC00359** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100887755 | NR_051976 | **TRERNA1** | translation regulatory lon | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100913082 | gene-LOC10091308 | **LOC100913082** | intraflagellar transport 2( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100913179 | gene-LOC10091317 | **LOC100913179** | SRA stem-loop interactin | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100913182 | gene-MARCKSL1P2 | **MARCKSL1P2** | MARCKS like 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100913183 | gene-MARCKSL1P1 | **MARCKSL1P1** | MARCKS like 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100967223 | gene-LOC10096722 | **LOC100967223** | neuroepithelial cell trans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100967224 | gene-LOC10096722 | **LOC100967224** | neuroepithelial cell trans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996246 | NR_146452 | **LINC02361** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996247 | gene-LOC10099624 | **LOC100996247** | . | pseudogene | 0 | 0 | 1 | 1 | 1.131 |
| 100996249 | NR_110159,NR_11( | **LOC100996249** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996251 | NR_103777 | **LRIG2-DT** | LRIG2 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996255 | NR_102756 | **LINC02256** | long intergenic non-prote | lncRNA | 1 | 2 | 2 | 3 | 1.189 |
| 100996259 | NM_001348161 | **FAM106B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.031 |
| 100996262 | gene-LOC10099626 | **LOC100996262** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996263 | NR_121626 | **LOC100996263** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996266 | NR_120506,NR_16 | **COMETT** | cytosolic oncogenic antis | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996279 | NR_103715 | **LINC00269** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996280 | NR_102737,NR_10 | **LINC00911** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996284 | gene-LOC10099628 | **LOC100996284** | Fc receptor like 4 pseud( | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996286 | NR_121627,NR_12 | **LINC02273** | long intergenic non-prote | lncRNA | 7 | 7 | 8 | 8 | 1.004 |
| 100996288 | XR_158942 | **LOC100996288** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.119 |
| 100996291 | NR_073178 | **LINC01993** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996294 | XR_002958103 | **LOC100996294** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 0.984 |
| 100996295 | NR_102401 | **DNAH17-AS1** | DNAH17 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996301 | NR_121634,NR_12 | **FOXD3-AS1** | FOXD3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996307 | NR_073179,NR_07 | **LIPE-AS1** | LIPE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 100996318 | NR_158169 | **LOC100996318** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996324 | NR_110763 | **LINC01882** | long intergenic non-prote | lncRNA | 11 | 7 | 12 | 8 | 0.668 |
| 100996325 | NR_103444 | **LOC100996325** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 100996331 | NM_001277304,NR | **POTEB** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996333 | gene-LOC10099633 | **LOC100996333** | G protein-coupled recep | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996335 | NR_136559 | **FAM230H** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996338 | NR_126340 | **LINC02169** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996342 | NR_103793 | **LINC01664** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.507 |
| 100996345 | NR_134922,NR_13 | **LINC02140** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996348 | NR_121630,NR_12 | **CA3-AS1** | CA3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996349 | NR_103470 | **LOC100996349** | testis expressed 264, ER | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100996350 | gene-DUX4L26 | **DUX4L26** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996351 | NR_110670 | **LOC100996351** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996361 | gene-LOC10099636 | **LOC100996361** | ribosomal protein S6 kina | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996364 | gene-LOC10099636 | **LOC100996364** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996379 | XR_001751424,XR_ | **LOC100996379** | E3 ubiquitin-protein ligas | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996384 | gene-LOC10099638 | **LOC100996384** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996385 | NR_103794 | **LOC100996385** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996404 | XR_001755459,XR_ | **LOC100996404** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996413 | NM_001365376 | **LOC100996413** | WAS/WASL-interacting p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996415 | NR_136570 | **FAM230D** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996419 | NR_134283 | **LOC100996419** | uncharacterized LOC10( | lncRNA | 2 | 1 | 3 | 2 | 0.691 |
| 100996425 | NR_131947,NR_13 | **ARLNC1** | androgen receptor regul | lncRNA | 0 | 1 | 1 | 2 | 1.141 |
| 100996432 | NR_136571 | **FAM230F** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996437 | NR_110037 | **LOC100996437** | uncharacterized LOC10( | lncRNA | 4 | 4 | 5 | 5 | 0.935 |
| 100996438 | gene-MED15P6 | **MED15P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996442 | XR_001737578,XR_ | **LOC100996442** | uncharacterized LOC10( | misc_RNA | 1 | 1 | 2 | 2 | 1.003 |
| 100996447 | NR_104147 | **LOC100996447** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996455 | NR_073177 | **LINC02724** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996465 | NR_130768 | **LCA10** | lung carcinoma-associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996476 | gene-LOC10099647 | **LOC100996476** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996478 | NR_146453 | **LINC01964** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996481 | gene-PRIM2B | **PRIM2B** | DNA primase subunit 2 p | pseudogene | 0 | 0 | 1 | 1 | 1.172 |
| 100996483 | gene-LOC10099648 | **LOC100996483** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996485 | NR_161235 | **C5orf66** | chromosome 5 open rea | lncRNA | 0 | 0 | 1 | 1 | 1.291 |
| 100996490 | NR_104146 | **LINC01206** | long intergenic non-prote | lncRNA | 5 | 5 | 6 | 6 | 0.964 |
| 100996492 | NM_001352888 | **CTXND1** | cortexin domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996506 | XR_940314 | **LOC100996506** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.115 |
| 100996511 | NR_110616 | **LINC01355** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.941 |
| 100996517 | NR_158170 | **SEC22B3P** | SEC22 homolog B3, pse | transcribed_pseu | 1 | 1 | 2 | 2 | 0.909 |
| 100996521 | NR_148929 | **CTXND2** | cortexin domain containi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996538 | gene-CCDC74BP1 | **CCDC74BP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996539 | NR_108075 | **ITPR1-DT** | ITPR1 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 100996541 | NR_126161 | **FAM157C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 100996549 | XR_241267 | **LOC100996549** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996567 | NR_103827,NR_10 | **ANTXRLP1** | ANTXR like pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100996569 | NR_102270,NR_10 | **NAMA** | non-protein coding RNA, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996570 | NR_110617,NR_11( | **NFIA-AS2** | NFIA antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996571 | NR_135515,NR_13 | **CYYR1-AS1** | CYYR1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996574 | XM_017015413 | **LOC100996574** | uncharacterized LOC10( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996579 | NR_110163,NR_11( | **LINC01806** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 1.034 |
| 100996582 | NR_126166 | **FAM74A7** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996583 | NR_121638 | **LOC100996583** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996586 | id-IGLV8OR8-1 | **IGLV8OR8-1** | immunoglobulin lambda | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 100996590 | NR_104145 | **LINC01505** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996597 | NR_103843 | **LINC00690** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996598 | XM_017029163 | **LOC100996598** | uncharacterized LOC10( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996609 | NR_110419 | **LINC01436** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996611 | gene-LOC10099661 | **LOC100996611** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996624 | NR_132438 | **LINC01981** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996630 | NR_135588 | **LINC01760** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996631 | NM_001368158 | **TCP11X1** | t-complex 11 family, X-lir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996635 | NR_110621,NR_11( | **LINC02607** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996637 | NR_168371 | **LOC100996637** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996643 | NR_160664,NR_16( | **LOC100996643** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 100996645 | NR_120607 | **LINCR-0003** | uncharacterized LincR-0( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996648 | NM_001277423 | **TCP11X2** | t-complex 11 family, X-lir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996649 | gene-ALG1L14P | **ALG1L14P** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996654 | NR_110040 | **SEC61G-DT** | SEC61G divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996660 | XR_001752953,XR_ | **LOC100996660** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996662 | XR_001746144,XR_ | **LOC100996662** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996664 | NR_135816 | **LOC100996664** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 100996665 | NR_110673,NR_11( | **LINC01533** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996669 | NR_103449 | **LINC01544** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996670 | gene-LOC10099667 | **LOC100996670** | zinc finger FYVE-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996671 | NR_110034,NR_11( | **LOC100996671** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996679 | NR_104647 | **LINC02369** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996681 | XR_158931,XR_935 | **LOC100996681** | uncharacterized LOC10( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996686 | gene-METTL7AP1 | **METTL7AP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996693 | NM_001286811 | **SPEGNB** | SPEG neighbor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996694 | NR_121639 | **LINC02502** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996696 | gene-LOC10099669 | **LOC100996696** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996699 | gene-LOC10099669 | **LOC100996699** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996701 | XM_011539090 | **LOC100996701** | uncharacterized LOC10( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996702 | NR_103746 | **LINC01356** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996712 | NR_120535 | **SRGAP2D** | SLIT-ROBO Rho GTPas | transcribed_pseu | 5 | 4 | 6 | 5 | 0.860 |
| 100996716 | NR_158171 | **SEC22B2P** | SEC22 homolog B2, pse | transcribed_pseu | 1 | 1 | 2 | 2 | 0.971 |
| 100996717 | NM_001364012,NM | **NOTCH2NLC** | notch 2 N-terminal like C | protein_coding | 4 | 3 | 5 | 4 | 0.919 |
| 100996720 | NR_160510 | **LOC100996720** | uncharacterized LOC10( | lncRNA | 0 | 1 | 1 | 2 | 1.165 |
| 100996722 | gene-LOC10099672 | **LOC100996722** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996723 | gene-LOC10099672 | **LOC100996723** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996724 | NR_144516,NR_14 | **LOC100996724** | phosphodiesterase 4D in | transcribed_pseu | 2 | 1 | 3 | 2 | 0.784 |
| 100996731 | gene-LOC10099673 | **LOC100996731** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996732 | XR_159162,XR_426 | **LINC02802** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996736 | gene-LOC10099673 | **LOC100996736** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996737 | gene-LOC10099673 | **LOC100996737** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996738 | NR_145479 | **HERC2P11** | hect domain and RLD 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.006 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 100996740 | NR_148945 | **LOC100996740** | uncharacterized LOC100 | lncRNA | 1 | 1 | 2 | 2 | 0.992 |
| 100996746 | NM_001351349,XM | **SPDYE11** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996756 | XR_159169 | **LOC100996756** | uncharacterized LOC100 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 100996758 | NM_001278795,XM | **NPY4R2** | neuropeptide Y receptor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 100996763 | NM_001364007,NM | **NOTCH2NLB** | notch 2 N-terminal like B | protein_coding | 4 | 3 | 5 | 4 | 0.813 |
| 100996842 | NM_001322800,NR | **LOC100996842** | uncharacterized LOC100 | protein_coding | 11 | 13 | 12 | 14 | 1.210 |
| 100996851 | gene-XIAPP1 | **XIAPP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996860 | gene-LOC10099686 | **LOC100996860** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996876 | NR_120318,NR_12( | **RORA-AS2** | RORA antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996886 | gene-LOC10099688 | **LOC100996886** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 100996902 | NR_146454 | **LINC01883** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996928 | NM_001244584 | **FMC1-LUC7L2** | FMC1-LUC7L2 readthrou | protein_coding | 5 | 9 | 6 | 10 | 1.686 |
| 100996930 | NR_138043 | **LINC00621** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 100996939 | NM_032906 | **PYURF** | PIGY upstream reading f | protein_coding | 44 | 43 | 45 | 44 | 0.993 |
| 100996941 | NR_104126 | **IL21-AS1** | IL21 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101027084 | gene-LOC10102708 | **LOC101027084** | MAX pseudogene | pseudogene | 1 | 0 | 2 | 1 | 0.735 |
| 101054525 | NR_073144 | **PGR-AS1** | PGR antisense RNA 1 | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 101055625 | NR_073170,NR_07 | **OVCH1-AS1** | OVCH1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101059906 | XM_003959933 | **LOC101059906** | collagen alpha-2(IV) cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101059907 | gene-LOC10105990 | **LOC101059907** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059914 | gene-FAM218BP | **FAM218BP** | family with sequence sir | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059915 | NM_001323075,XR_ | **LOC101059915** | chromosome X open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101059916 | gene-NUP35P2 | **NUP35P2** | nucleoporin 35 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059918 | NM_001282484 | **GOLGA8R** | golgin A8 family member | protein_coding | 15 | 12 | 16 | 13 | 0.789 |
| 101059920 | gene-FRG2HP | **FRG2HP** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059924 | gene-LOC10105992 | **LOC101059924** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059926 | gene-FRG2JP | **FRG2JP** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059938 | NM_001282507,XM_ | **NPIPA7** | nuclear pore complex int | protein_coding | 8 | 7 | 9 | 8 | 0.962 |
| 101059948 | NR_073552 | **LOC101059948** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101059953 | NM_001282511 | **NPIPA8** | nuclear pore complex int | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 101059954 | XR_171071 | **LOC101059954** | uncharacterized LOC101 | lncRNA | 11 | 8 | 12 | 9 | 0.695 |
| 101059962 | gene-LOC10105996 | **LOC101059962** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059972 | gene-LOC10105997 | **LOC101059972** | myosin light chain 9 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059973 | gene-NACAP7 | **NACAP7** | NACA pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059974 | gene-LOC10105997 | **LOC101059974** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059977 | gene-LOC10105997 | **LOC101059977** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059986 | gene-LOC10105998 | **LOC101059986** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059990 | gene-DNAJB6P3 | **DNAJB6P3** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101059997 | gene-LOC10105999 | **LOC101059997** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060000 | gene-LOC10106000 | **LOC101060000** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060004 | NR_109942 | **LINC01523** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060016 | gene-LOC10106001 | **LOC101060016** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060019 | NR_110169 | **LINC01799** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060020 | gene-OLA1P3 | **OLA1P3** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060021 | gene-LOC10106002 | **LOC101060021** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060024 | XM_011543786 | **LOC101060024** | short transmembrane mi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060035 | gene-LOC10106003 | **LOC101060035** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060038 | NR_146455,NR_14( | **LINC02446** | long intergenic non-prote | lncRNA | 193 | 180 | 194 | 181 | 0.935 |
| 101060039 | gene-HNRNPA1P57 | **HNRNPA1P57** | . | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 101060040 | gene-CHCHD2P11 | **CHCHD2P11** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060042 | gene-LOC10106004 | **LOC101060042** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060043 | gene-LOC10106004 | **LOC101060043** | sulfiredoxin 1 pseudoger | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060045 | gene-PCBP2P1 | **PCBP2P1** | poly(rC) binding protein : | pseudogene | 0 | 0 | 1 | 1 | 0.839 |
| 101060048 | gene-LOC10106004 | **LOC101060048** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060049 | gene-LOC10106004 | **LOC101060049** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060052 | gene-LOC10106005 | **LOC101060052** | zinc transporter ZIP1-like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060056 | gene-MPV17L2P1 | **MPV17L2P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060058 | gene-LOC10106005 | **LOC101060058** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060064 | gene-LOC10106006 | **LOC101060064** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060066 | gene-LOC10106006 | **LOC101060066** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060067 | gene-LOC10106006 | **LOC101060067** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060076 | gene-LOC10106007 | **LOC101060076** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060084 | gene-LOC10106008 | **LOC101060084** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060086 | gene-LOC10106008 | **LOC101060086** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060089 | gene-LOC10106008 | **LOC101060089** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060091 | NR_110174 | **ACTR3-AS1** | ACTR3 antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 1.018 |
| 101060098 | gene-LOC10106009 | **LOC101060098** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060099 | gene-LOC10106009 | **LOC101060099** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060104 | gene-LOC10106010 | **LOC101060104** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060105 | gene-FAM183DP | **FAM183DP** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060113 | gene-POMPP1 | **POMPP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060118 | gene-LOC10106011 | **LOC101060118** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060119 | gene-LOC10106011 | **LOC101060119** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060126 | gene-LOC10106012 | **LOC101060126** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060145 | gene-LOC10106014 | **LOC101060145** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060146 | NR_110646 | **CHMP1B2P** | charged multivesicular b | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101060152 | gene-LOC10106015 | **LOC101060152** | NCK associated protein : | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060158 | gene-LOC10106015 | **LOC101060158** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060159 | gene-LOC10106015 | **LOC101060159** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060162 | gene-LOC10106016 | **LOC101060162** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060164 | gene-LOC10106016 | **LOC101060164** | secretory carrier membra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060170 | gene-LOC10106017 | **LOC101060170** | . | pseudogene | 0 | 1 | 1 | 2 | 1.251 |
| 101060171 | NR_138082 | **ARMC4P1** | armadillo repeat containi | transcribed_pseu | 0 | 0 | 1 | 1 | 0.972 |
| 101060176 | gene-TPRKBP1 | **TPRKBP1** | TP53RK binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060179 | XM_003959932 | **LOC101060179** | uncharacterized LOC101 | protein_coding | 4 | 5 | 5 | 6 | 1.228 |
| 101060187 | XR_001753816 | **LOC101060187** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060189 | gene-UBE2FP2 | **UBE2FP2** | UBE2F pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060191 | gene-LOC10106019 | **LOC101060191** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060192 | gene-BNIP3P13 | **BNIP3P13** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060195 | NR_134638 | **FCF1P2** | FCF1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.035 |
| 101060199 | gene-LOC10106019 | **LOC101060199** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060200 | NM_001277291,XM_ | **ZNF891** | zinc finger protein 891 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060206 | gene-LOC10106020 | **LOC101060206** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060207 | gene-LOC10106020 | **LOC101060207** | . | pseudogene | 0 | 1 | 1 | 2 | 1.265 |
| 101060211 | NM_001291543,XM | **CT45A7** | cancer/testis antigen fan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060212 | gene-LOC10106021 | **LOC101060212** | . | pseudogene | 5 | 4 | 6 | 5 | 0.795 |
| 101060224 | XR_931261,XR_931 | **LOC101060224** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060226 | NM_001351365 | **NBPF19** | NBPF member 19 | protein_coding | 22 | 19 | 23 | 20 | 0.878 |
| 101060227 | gene-LOC10106022 | **LOC101060227** | . | pseudogene | 0 | 0 | 1 | 1 | 0.997 |
| 101060233 | NM_001330067 | **OPN1MW3** | opsin 1, medium wave se | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060236 | gene-LOC10106023 | **LOC101060236** | developmental pluripoter | pseudogene | 0 | 0 | 1 | 1 | 1.025 |
| 101060264 | NR_126415,NR_12( | **FOXP4-AS1** | FOXP4 antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.655 |
| 101060274 | gene-LOC10106027 | **LOC101060274** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060301 | NM_001302551 | **HNRNPCL4** | heterogeneous nuclear r | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060321 | NM_001291462,XM | **TBC1D3G** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 1.045 |
| 101060341 | XM_005271793,XM_ | **LOC101060341** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.080 |
| 101060351 | NM_001291464,XM_ | **TBC1D3K** | TBC1 domain family mer | protein_coding | 0 | 0 | 1 | 1 | 0.998 |
| 101060376 | NM_001291459,NM_ | **TBC1D3L** | TBC1 domain family mer | protein_coding | 1 | 1 | 2 | 2 | 0.882 |
| 101060385 | NR_110179 | **LINC01939** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060389 | NM_001291465,XM | **TBC1D3D** | TBC1 domain family mer | protein_coding | 1 | 1 | 2 | 2 | 1.076 |
| 101060391 | NR_136151 | **SNTG2-AS1** | SNTG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060400 | XR_002958097 | **LOC101060400** | translation initiation facto | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060498 | NR_121640,NR_12 | **LINC02265** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.064 |
| 101060524 | NR_111000 | **LOC101060524** | D(1B) dopamine recepto | transcribed_pseu | 0 | 0 | 1 | 1 | 0.995 |
| 101060542 | NR_110764 | **LINC01910** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060544 | NR_110895,NR_11( | **LINC01563** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101060553 | NR_120398 | **LOC101060553** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 101060587 | gene-LOC10106058 | **LOC101060587** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060588 | XM_017022773 | **LOC101060588** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101060684 | NM_001351372 | **NBPF26** | NBPF member 26 | protein_coding | 11 | 10 | 12 | 11 | 0.896 |
| 101060691 | NR_120611,NR_12( | **NUTM2B-AS1** | NUTM2B antisense RNA | lncRNA | 8 | 8 | 9 | 9 | 1.004 |
| 101060796 | gene-LOC10106079 | **LOC101060796** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101060852 | gene-LOC10106085 | **LOC101060852** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101101772 | NR_073453 | **LINC00601** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101101773 | NR_073454 | **LINC00609** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101101775 | NR_073455,NR_07 | **TMEM220-AS1** | TMEM220 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101101776 | NR_073460 | **BMS1P17** | BMS1 pseudogene 17 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101101841 | gene-LOC10110184 | **LOC101101841** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101154643 | gene-LOC10115464 | **LOC101154643** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101154644 | NR_131248 | **LINCMD1** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101154687 | NR_104139 | **LINC01081** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101154753 | NR_109836 | **PANDAR** | promoter of CDKN1A ant | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101180897 | gene-LOC10118089 | **LOC101180897** | Rab geranylgeranyltrans | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101180901 | NR_073584 | **IPO11-LRRC70** | IPO11-LRRC70 readthro | lncRNA | 1 | 1 | 2 | 2 | 1.127 |
| 101180976 | NR_074079 | **IFNL4** | interferon lambda 4 (gen | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101232810 | gene-LOC10123281 | **LOC101232810** | stathmin 3 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.053 |
| 101234261 | NR_145480 | **LSINCT5** | long stress-induced non- | lncRNA | 0 | 0 | 1 | 1 | 1.018 |
| 101234262 | gene-COX5BP6 | **COX5BP6** | cytochrome c oxidase su | pseudogene | 0 | 1 | 1 | 2 | 1.475 |
| 101241875 | gene-RPS3AP1 | **RPS3AP1** | RPS3A pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101241891 | NR_109813 | **LINC00850** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101241892 | NR_103844 | **NPTN-IT1** | NPTN intronic transcript | lncRNA | 1 | 1 | 2 | 2 | 1.025 |
| 101241901 | gene-LOC10124190 | **LOC101241901** | chromosome 4 open rea | pseudogene | 0 | 0 | 1 | 1 | 1.014 |
| 101241902 | NR_077236 | **LOC101241902** | chromosome 4 open rea | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101243545 | NR_102265 | **LINC02067** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 101243555 | NR_103745 | **PTENP1-AS** | PTENP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101269108 | gene-LOC10126910 | **LOC101269108** | zinc finger FYVE-type co | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101290501 | gene-TBCAP3 | **TBCAP3** | tubulin folding cofactor A | pseudogene | 0 | 0 | 1 | 1 | 0.959 |
| 101290502 | gene-SUMO1P4 | **SUMO1P4** | SUMO1 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 0.962 |
| 101290504 | gene-YWHAQP6 | **YWHAQP6** | YWHAQ pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 0.980 |
| 101290508 | gene-YWHAQP9 | **YWHAQP9** | YWHAQ pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101340250 | NR_102368 | **SNORA11E** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101340251 | NR_102369 | **SNORD124** | small nucleolar RNA, C/D | snoRNA | 2 | 2 | 3 | 3 | 0.915 |
| 101340252 | NR_102370 | **SNORD121B** | small nucleolar RNA, C/D | snoRNA | 0 | 0 | 1 | 1 | 1.142 |
| 101409253 | NR_103846 | **LINC00676** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101409254 | NR_102423 | **LINC00681** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101409255 | gene-LOC10140925 | **LOC101409255** | cell division cycle 42 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101409256 | NR_102424 | **LOC101409256** | cell division cycle 42 pse | transcribed_pseu | 0 | 0 | 1 | 1 | 0.826 |
| 101409257 | NR_102425 | **EZR-AS1** | EZR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101409258 | NR_102429 | **OSGEPL1-AS1** | OSGEPL1 antisense RN | lncRNA | 1 | 0 | 2 | 1 | 0.753 |
| 101409261 | NR_102430 | **OGFR-AS1** | OGFR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410533 | NR_102684 | **YTHDF3-AS1** | YTHDF3 antisense RNA | lncRNA | 2 | 2 | 3 | 3 | 0.880 |
| 101410534 | NR_102696 | **DLGAP1-AS4** | DLGAP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410535 | NR_102697 | **LAMTOR5-AS1** | LAMTOR5 antisense RN | lncRNA | 2 | 2 | 3 | 3 | 1.272 |
| 101410536 | NR_120507 | **EVX1-AS** | EVX1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410537 | NR_102703 | **MAGEA8-AS1** | MAGEA8 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410538 | NM_001355003,NM | **MMP24OS** | MMP24 opposite strand | protein_coding | 35 | 35 | 36 | 36 | 1.018 |
| 101410540 | NR_102707 | **FANK1-AS1** | FANK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410541 | NR_102708 | **LINC00678** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410542 | NR_102709 | **UCHL1-AS1** | UCHL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410543 | NR_102710,NR_10 | **XXYLT1-AS2** | XXYLT1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410544 | NR_102712 | **RMDN2-AS1** | RMDN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101410545 | NR_102713 | **STPG2-AS1** | STPG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101447996 | NR_121645 | **RNVU1-8** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101448202 | NR_103451 | **LOC101448202** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101515984 | NR_104138 | **LINC01080** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101559451 | NR_103482 | **LOC101559451** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.149 |
| 101593348 | NR_103497 | **LOC101593348** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.103 |
| 101618237 | gene-LOC10161823 | **LOC101618237** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101669762 | NR_103783 | **BLACAT1** | bladder cancer associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101669764 | NR_104359 | **GPR1-AS** | GPR1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 101669766 | NR_103847 | **ZNF350-AS1** | ZNF350 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101669767 | NR_104319,NR_10 | **SCHLAP1** | SWI/SNF complex antag | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101730217 | NR_103546 | **SPECC1L-ADORA2A** | SPECC1L-ADORA2A rea | lncRNA | 0 | 0 | 1 | 1 | 1.061 |
| 101735302 | NR_103720 | **STAG3L5P** | stromal antigen 3-like 5 p | transcribed_pseu | 4 | 4 | 5 | 5 | 0.939 |
| 101752334 | NR_103728 | **PVRIG2P** | poliovirus receptor relate | transcribed_pseu | 4 | 0 | 5 | 1 | 0.295 |
| 101752399 | NR_036569,NR_03 | **STAG3L5P-PVRIG2P-I** | STAG3L5P-PVRIG2P-PII | lncRNA | 29 | 31 | 30 | 32 | 1.072 |
| 101752400 | NR_103792 | **CAPN10-DT** | CAPN10 divergent transc | lncRNA | 5 | 4 | 6 | 5 | 0.990 |
| 101805488 | NR_109834 | **CCAT2** | colon cancer associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101805491 | NR_103805 | **LINC02583** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101805492 | NR_103848,NR_10 | **CASC9** | cancer susceptibility 9 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101867536 | NR_109833 | **PRNCR1** | prostate cancer associat | lncRNA | 1 | 1 | 2 | 2 | 0.965 |
| 101926886 | XR_001740477,XR_ | **LOC101926886** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926887 | XR_946181,XR_946 | **LOC101926887** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926888 | NR_109885,NR_10 | **RALY-AS1** | RALY antisense RNA 1 | lncRNA | 4 | 6 | 5 | 7 | 1.497 |
| 101926889 | NR_109994 | **LOC101926889** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926890 | NR_104362,NR_10 | **DAB1-AS1** | DAB1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926892 | NR_110653 | **LOC101926892** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926893 | XR_001742814,XR_ | **LIX1-AS1** | LIX1 and RIOK2 antisens | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 101926895 | NR_120372 | **CRTC3-AS1** | CRTC3 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.346 |
| 101926896 | NR_110901 | **GLIS2-AS1** | GLIS2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926897 | NR_120416 | **LINC02338** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926898 | NR_125837 | **LOC101926898** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926900 | NR_109756 | **DNAJB5-DT** | DNAJB5 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926903 | NR_109998 | **LSAMP-AS1** | LSAMP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926904 | NR_104631 | **LINC01265** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926905 | NR_105056 | **LOC101926905** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926906 | NR_120614 | **SLC16A12-AS1** | SLC16A12 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926907 | XR_246327 | **LOC101926907** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.964 |
| 101926908 | NR_110656 | **LOC101926908** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926911 | NR_110104 | **VPS33B-DT** | VPS33B divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.328 |
| 101926913 | NR_110185 | **LOC101926913** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926915 | NR_125838 | **LOC101926915** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926917 | NR_136286 | **ANKRD18CP** | ankyrin repeat domain 18 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.003 |
| 101926918 | NR_135112 | **GTF2IP12** | general transcription fact | transcribed_pseu | 3 | 3 | 4 | 4 | 1.098 |
| 101926923 | XR_001740580 | **LOC101926923** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926924 | NR_110655 | **LINC01375** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926925 | NR_110626 | **LINC01358** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 0.974 |
| 101926926 | NR_125388 | **RDH10-AS1** | RDH10 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926928 | NR_110106 | **CRAT37** | cervical cancer-associate | lncRNA | 1 | 0 | 2 | 1 | 0.651 |
| 101926930 | NR_047003 | **LINC00378** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926933 | NR_110002 | **LOC101926933** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.292 |
| 101926934 | NR_134642,NR_13 | **LOC101926934** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926935 | NR_110001 | **LOC101926935** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926940 | NR_104632 | **LINC02104** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926941 | NR_120664 | **SPRY4-AS1** | SPRY4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926942 | NR_110657 | **LINC02653** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926943 | NR_110044 | **LOC101926943** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926944 | NR_110627 | **LOC101926944** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926945 | gene-NXPE2P1 | **NXPE2P1** | neurexophilin and PC-es | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101926946 | gene-LOC10192694 | **LOC101926946** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101926947 | NR_147034 | **LINC01617** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 101926948 | NR_135130 | **LOC101926948** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926949 | gene-LOC10192694 | **LOC101926949** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101926950 | NR_110902 | **LINC01570** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926951 | NR_134946 | **LINC02339** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926953 | XR_001740480 | **LOC101926953** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926955 | NR_110003 | **LINC01733** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926956 | XR_928406,XR_928 | **LOC101926956** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926957 | NR_138042 | **LINC02885** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926959 | XR_923078 | **LOC101926959** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926960 | NR_104635,NR_10 | **LOC101926960** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926962 | NR_110658 | **ADGRF5-AS1** | ADGRF5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926963 | NR_110054,NR_11 | **PRKAR1B-AS1** | PRKAR1B antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926964 | NR_110628 | **LOC101926964** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926966 | NR_110201 | **LINC01804** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926967 | XR_001752903,XR_ | **LOC101926967** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.044 |
| 101926968 | NR_135573 | **LOC101926968** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926969 | XR_001739589,XR_ | **LOC101926969** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926971 | NR_110382 | **LINC01284** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926973 | gene-LOC10192697 | **LOC101926973** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101926974 | XR_940050,XR_940 | **LOC101926974** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926975 | NR_110558 | **LINC01844** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101926977 | XR_001746005,XR_ | **LOC101926977** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.999 |
| 101926978 | NR_105006 | **LINC01111** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926983 | NR_135570,NR_13 | **LINC02049** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101926984 | XR_001752821 | **LOC101926984** | leucine-rich repeat-conta | lncRNA | 0 | 0 | 1 | 1 | 1.060 |
| 101926987 | NR_109939 | **DLGAP4-AS1** | DLGAP4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.224 |
| 101926993 | gene-LOC10192699 | **LOC101926993** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101926994 | XR_001751666,XR_ | **LOC101926994** | uncharacterized LOC101 | lncRNA | 1 | 2 | 2 | 3 | 1.298 |
| 101926996 | NR_110802 | **RUNDC3A-AS1** | RUNDC3A antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927000 | NR_132384 | **PRKAR1B-AS2** | PRKAR1B antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927003 | NR_125389 | **PKIA-AS1** | PKIA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927006 | gene-RPSAP76 | **RPSAP76** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927007 | NR_110660 | **LINC01365** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927009 | NR_135195 | **LINC02177** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927010 | XR_241555 | **LOC101927010** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 101927012 | XR_001742930,XR_ | **LOC101927012** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927013 | XR_246160 | **LOC101927013** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927015 | NR_109769 | **LINC01506** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.626 |
| 101927017 | NR_110661 | **LINC01180** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927018 | NR_110803 | **LOC101927018** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927019 | XR_001749084 | **LOC101927019** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927020 | NR_125839 | **LOC101927020** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927021 | NR_110065,NR_11( | **ZFAND2A-DT** | ZFAND2A divergent tran | lncRNA | 1 | 3 | 2 | 4 | 1.712 |
| 101927023 | NR_110559 | **LOC101927023** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927025 | XR_243235,XR_932 | **LOC101927025** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927026 | XR_001752073,XR_ | **LOC101927026** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927027 | NR_110204,NR_11( | **CHROMR** | cholesterol induced regu | lncRNA | 44 | 37 | 45 | 38 | 0.838 |
| 101927034 | NR_110665,NR_11( | **ROR1-AS1** | ROR1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927038 | NR_135040,NR_13 | **LINC02400** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927039 | XR_242407,XR_242 | **LOC101927039** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 101927040 | NR_110954 | **LOC101927040** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927042 | XR_242550,XR_242 | **LOC101927042** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927043 | NR_110207,NR_11( | **EPCAM-DT** | EPCAM divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927044 | XR_001753324 | **LOC101927044** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927045 | NR_110032 | **LOC101927045** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 0.936 |
| 101927046 | XR_245875,XR_944 | **LOC101927046** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927048 | NR_110843 | **LOC101927048** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927049 | NR_120615,NR_12( | **PLCE1-AS2** | PLCE1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927050 | NR_136329 | **LOC101927050** | lysine methyltransferase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101927051 | NR_109952 | **PDXP-DT** | PDXP divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927053 | NR_110209 | **LOC101927053** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927055 | NR_120594 | **LOC101927055** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927056 | NR_125395,NR_12 | **LINC02614** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927057 | XR_243788 | **LOC101927057** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.121 |
| 101927058 | NR_110042 | **LINC02402** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927059 | NR_134282 | **LINC01957** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927060 | XR_001753101,XR_ | **LOC101927060** | uncharacterized LOC101 | lncRNA | 8 | 9 | 9 | 10 | 1.018 |
| 101927062 | NR_110033 | **LINC02294** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927066 | NR_125390 | **LOC101927066** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927067 | NR_125410 | **LINC01607** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927069 | NR_110647 | **LOC101927069** | uncharacterized LOC101 | lncRNA | 2 | 1 | 3 | 2 | 0.814 |
| 101927070 | NR_126337 | **LINC02611** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927072 | XR_245442 | **LOC101927072** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927073 | XR_001739801,XR_ | **LOC101927073** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927074 | NR_104143 | **LINC00682** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927075 | NR_108034 | **FGF10-AS1** | FGF10 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927078 | NR_130785 | **LOC101927078** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927079 | NR_110480,NR_11( | **LOC101927079** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927080 | XR_001752134,XR_ | **LOC101927080** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927081 | NR_110041 | **MIR4307HG** | MIR4307 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927082 | NR_125840 | **LOC101927082** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927084 | NR_119383 | **LINC01359** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927086 | XR_001746707,XR_ | **KLF9-DT** | KLF9 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927087 | NR_110838 | **LINC02516** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927089 | XR_245001,XR_245 | **LOC101927089** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927093 | XR_243789 | **LOC101927093** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927096 | NR_109873 | **CLMAT3** | colorectal liver metastasi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927098 | XR_936722 | **LOC101927098** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927100 | NR_109874,NR_10 | **LOC101927100** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927102 | NR_110903,NR_11( | **ITFG1-AS1** | ITFG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927108 | XR_001746719,XR_ | **LOC101927108** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927109 | XR_244710,XR_939 | **LINC02379** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927111 | NR_109992,NR_10 | **SUCLG2-AS1** | SUCLG2 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.905 |
| 101927112 | NR_120320 | **LINC01581** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927115 | NR_109876 | **LINC01933** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927117 | NR_109889 | **PLCG1-AS1** | PLCG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927118 | XR_001745980,XR_ | **LOC101927118** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927120 | NR_110136,NR_11( | **LINC02735** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927123 | NR_110147 | **LINC02016** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927124 | NR_110045 | **LOC101927124** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927125 | NR_120508,NR_12( | **ELFN1-AS1** | ELFN1 antisense RNA 1 | lncRNA | 17 | 12 | 18 | 13 | 0.705 |
| 101927126 | NR_135079 | **GTF2IP7** | general transcription fact | transcribed_pseu | 0 | 0 | 1 | 1 | 0.923 |
| 101927129 | NR_120322,NR_12( | **LINC01580** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927131 | NR_110907 | **LOC101927131** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927132 | NR_110650 | **LINC02133** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 101927134 | NR_109877 | **LINC01470** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927136 | NR_110840 | **LOC101927136** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927138 | NR_149017 | **PTPRT-AS1** | PTPRT antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927139 | NR_123718 | **PDE4B-AS1** | PDE4B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927141 | NR_134295 | **LOC101927141** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927142 | NR_110213 | **NPAS2-AS1** | NPAS2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927143 | NR_110669 | **LOC101927143** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927145 | XR_001741397,XR_ | **LOC101927145** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927149 | NR_125397 | **LINC01471** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927150 | NR_110765 | **L3MBTL4-AS1** | L3MBTL4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927151 | NR_110687,NR_11( | **LOC101927151** | uncharacterized LOC101 | lncRNA | 4 | 3 | 5 | 4 | 0.904 |
| 101927152 | NR_110000 | **SAMMSON** | survival associated mitoc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927153 | NR_120321 | **LINC02207** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927155 | NR_120410,NR_12( | **LMO7-AS1** | LMO7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927156 | NR_130784 | **LINC01934** | long intergenic non-prote | lncRNA | 4 | 4 | 5 | 5 | 1.068 |
| 101927157 | NR_125879 | **LOC101927157** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 101927158 | gene-RPSAP69 | **RPSAP69** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927159 | NR_110004 | **LOC101927159** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927164 | NR_110668 | **LOC101927164** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927165 | NR_135590 | **LINC01813** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927166 | NR_110804 | **LOC101927166** | uncharacterized LOC101 | lncRNA | 153 | 140 | 154 | 141 | 0.915 |
| 101927167 | NR_125398 | **GATA2-AS1** | GATA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927168 | NR_134645 | **LOC101927168** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927171 | NR_125841 | **LINC01564** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927174 | NR_144486,NR_14 | **CHL1-AS2** | CHL1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927176 | NR_108076 | **LINC01069** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927178 | NR_110415 | **LOC101927178** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.495 |
| 101927179 | NR_125880,NR_12 | **LOC101927179** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.172 |
| 101927180 | gene-LOC1019271 | **LOC101927180** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927182 | XR_001754607,XR_ | **LOC101927182** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927183 | XR_938252 | **LOC101927183** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927186 | NR_110595 | **ADGRL3-AS1** | ADGRL3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927188 | NR_126040 | **LOC101927188** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927189 | NR_125842 | **LOC101927189** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927190 | NR_104675 | **LOC101927190** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927191 | XR_001746722,XR_ | **LOC101927191** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927193 | NR_110739 | **CHL1-AS1** | CHL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927195 | NR_120413 | **LINC00382** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927196 | NR_110214,NR_11( | **FSIP2-AS2** | FSIP2 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927200 | XR_936741 | **LOC101927200** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.913 |
| 101927202 | XR_938259,XR_938 | **LOC101927202** | uncharacterized LOC101 | lncRNA | 26 | 22 | 27 | 23 | 0.853 |
| 101927204 | NR_110184 | **FAM111A-DT** | FAM111A divergent trans | lncRNA | 8 | 9 | 9 | 10 | 1.056 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101927207 | NR_110805 | **LINC02075** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927209 | XR_001741685,XR_ | **LOC101927209** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.451 |
| 101927211 | NR_110742 | **ZNF451-AS1** | ZNF451 regulatory antis | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927213 | XR_001739478,XR_ | **LOC101927213** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927215 | NR_110118 | **LINC01266** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927217 | NR_110218 | **LINC01473** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.178 |
| 101927219 | NR_109949 | **HNF4A-AS1** | HNF4A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927220 | NR_110671 | **DEPDC1-AS1** | DEPDC1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927221 | NR_125415 | **UBR5-AS1** | UBR5 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.937 |
| 101927224 | NR_120414 | **LINC01049** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927226 | XR_001748236,XR_ | **LOC101927226** | uncharacterized LOC101 | lncRNA | 5 | 4 | 6 | 5 | 0.828 |
| 101927227 | XR_243354 | **LOC101927227** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927228 | XR_243442 | **LINC02179** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927229 | NR_110743 | **LINC01929** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927230 | NR_110806 | **LINC01969** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927233 | NR_109879 | **SEMA6A-AS1** | SEMA6A antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.707 |
| 101927234 | XR_001746721 | **LOC101927234** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927235 | XR_245007,XR_940 | **LOC101927235** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927237 | NR_110747 | **LOC101927237** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.928 |
| 101927238 | XR_245450 | **LOC101927238** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927239 | NR_110748 | **LINC01989** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927241 | XR_245978 | **LOC101927241** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927242 | NR_109893 | **LINC01430** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927243 | NR_110073 | **LOC101927243** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927244 | NR_125938 | **LINC01788** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.095 |
| 101927245 | NR_160672,NR_16( | **LOC101927245** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.157 |
| 101927247 | XR_001738504 | **LOC101927247** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927248 | NR_120417 | **LOC101927248** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927249 | NR_046681 | **PDZRN3-AS1** | PDZRN3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927252 | XR_001739825 | **LOC101927252** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.596 |
| 101927253 | XR_243718 | **LOC101927253** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927256 | XR_926993 | **CARD11-AS1** | CARD11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927257 | NR_109965 | **MRTFA-AS1** | MRTFA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927258 | NR_121120,NR_12 | **LINC01474** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927259 | XR_244716 | **LOC101927259** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927262 | XR_001739242 | **LOC101927262** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.315 |
| 101927263 | XR_932655 | **LOC101927263** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927264 | gene-LOC10192726 | **LOC101927264** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927267 | NR_120449 | **LOC101927267** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927268 | XR_001744177,XR_ | **LOC101927268** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 101927269 | NR_110075 | **LOC101927269** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927272 | NR_110908 | **LOC101927272** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927273 | NR_110755 | **LINC01416** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927274 | NR_110751 | **LINC02071** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927275 | NR_110771,NR_11( | **NDUFV2-AS1** | NDUFV2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.119 |
| 101927278 | NR_134451,NR_13 | **LOC101927278** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927279 | NR_110514 | **EP300-AS1** | EP300 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.441 |
| 101927280 | NR_104610 | **LINC02208** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927281 | XR_001746723,XR_ | **LOC101927281** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927282 | NR_110753 | **LINC02466** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927283 | XR_001739636,XR_ | **LOC101927283** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927284 | NR_110754 | **LOC101927284** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927285 | NR_110219 | **LINC01793** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927286 | NR_120324 | **LINC02254** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927288 | NR_047502,NR_10 | **MANEA-DT** | MANEA divergent transc | lncRNA | 1 | 0 | 2 | 1 | 0.720 |
| 101927289 | NR_110220 | **LINC01237** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927292 | NR_110048 | **LINC02395** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927293 | XR_001744180,XR_ | **LOC101927293** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 101927295 | NR_110676,NR_11( | **LINC01360** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927296 | NR_121660 | **LOC101927296** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927297 | XR_245251,XR_938 | **LOC101927297** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927300 | XR_001747564,XR_ | **LOC101927300** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.021 |
| 101927305 | NR_125883,NR_12 | **SNHG27** | small nucleolar RNA hos | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927310 | NR_110756 | **LOC101927310** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927311 | NR_110909 | **LINC02185** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927314 | NR_110757 | **LOC101927314** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927318 | NR_110589,NR_11( | **LOC101927318** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927320 | NR_121670,NR_12 | **ERICH3-AS1** | ERICH3 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927322 | NR_164150 | **LOC101927322** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.255 |
| 101927323 | NR_110773,NR_11( | **PPP4R1-AS1** | PPP4R1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927324 | NR_120618 | **LINC01475** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927325 | XR_927004,XR_927 | **LOC101927325** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927327 | gene-SUMO2P20 | **SUMO2P20** | . | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 101927329 | XR_242624,XR_929 | **LOC101927329** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927330 | XR_923203,XR_923 | **LOC101927330** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.029 |
| 101927331 | NR_135589 | **LINC01831** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927332 | NR_120325 | **LINC01582** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927333 | XR_001737743,XR_ | **CH17-125A10.2** | uncharacterized CH17-1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927334 | NR_110913 | **LINC02127** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927342 | NR_125939 | **LOC101927342** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927344 | XR_001755570,XR_ | **LOC101927344** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927345 | XM_011544009,XR_ | **LOC101927345** | putative ankyrin repeat d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101927346 | XR_245076 | **LINC02047** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927347 | NR_110123,NR_11( | **GRM7-AS3** | GRM7 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927348 | NR_110915 | **LINC02186** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927350 | NR_110775 | **LINC01254** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927351 | NR_146457 | **LINC02302** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927352 | NR_110383,NR_11( | **PLS3-AS1** | PLS3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927354 | NR_108073 | **LOC101927354** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.726 |
| 101927355 | XR_244184 | **LOC101927355** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927356 | NR_110076,NR_11( | **CACNA2D1-AS1** | CACNA2D1 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927357 | NR_134281 | **LOC101927357** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927358 | NR_121182 | **LOC101927358** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927359 | NR_125885 | **LOC101927359** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927360 | NR_110113 | **LINC01103** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927362 | NR_146470 | **LINC01875** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927363 | NR_134672 | **LINC02353** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927364 | NR_110916 | **LINC01571** | long intergenic non-prote | lncRNA | 9 | 8 | 10 | 9 | 0.963 |
| 101927365 | NR_125843 | **LOC101927365** | uncharacterized LOC101 | lncRNA | 3 | 2 | 4 | 3 | 0.931 |
| 101927366 | XR_001739830 | **LOC101927366** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927367 | XR_243721 | **LOC101927367** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927369 | XR_001752860,XR_ | **LOC101927369** | uncharacterized LOC101 | lncRNA | 5 | 5 | 6 | 6 | 1.096 |
| 101927372 | XR_938283 | **LOC101927372** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 101927374 | NR_110133 | **LOC101927374** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927375 | XM_006719904,XM | **LOC101927375** | ankyrin repeat domain-c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101927377 | NR_134501 | **LOC101927377** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927378 | NR_110079,NR_11( | **LOC101927378** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927379 | NR_109881 | **LINC02201** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927380 | NR_121183 | **CARNMT1-AS1** | CARNMT1 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927381 | NR_120619 | **LINC01163** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927383 | XR_244909 | **LOC101927383** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927385 | XR_001749966,XR_ | **LOC101927385** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.202 |
| 101927388 | XR_245565 | **LOC101927388** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927389 | XR_001752944,XR_ | **LOC101927389** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927390 | gene-GTF2IP6 | **GTF2IP6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927391 | NR_110084 | **LOC101927391** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.841 |
| 101927392 | XR_001745681,XR_ | **LOC101927392** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927393 | XR_001755575,XR_ | **LOC101927393** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.189 |
| 101927394 | NR_110131 | **LOC101927394** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927396 | NR_120620 | **LINC01514** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927397 | XR_246575 | **LOC101927397** | uncharacterized LOC101 | lncRNA | 4 | 4 | 5 | 5 | 1.144 |
| 101927400 | XR_001739647,XR_ | **LOC101927400** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927401 | XR_001738509,XR_ | **LOC101927401** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927402 | NR_136167 | **LOC101927402** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.808 |
| 101927404 | XR_001753478,XR_ | **LOC101927404** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927405 | XR_245566 | **LOC101927405** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |

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|---|---|---|---|---|---|---|---|---|---|
| 101927406 | NR_110222 | **LINC01821** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.904 |
| 101927410 | NR_110777 | **LOC101927410** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927411 | NR_110694 | **LINC01782** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927412 | NR_125940,NR_12 | **LINC01781** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927413 | XR_242419,XR_928 | **LOC101927413** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927414 | XR_001741837,XR_ | **LOC101927414** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927415 | NR_110049 | **TMED2-DT** | TMED2 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 0.901 |
| 101927416 | NR_121663,NR_12 | **SRGAP3-AS2** | SRGAP3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927417 | NR_148918,NR_148 | **FHAD1-AS1** | FHAD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927418 | NR_110050 | **LOC101927418** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927419 | NR_120621 | **LINC02681** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927420 | NR_136252,NR_13 | **LOC101927420** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 1.182 |
| 101927421 | NR_109882 | **LOC101927421** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927422 | NR_121184 | **GNA14-AS1** | GNA14 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927423 | XM_034751809 | **PANO1** | proapoptotic nucleolar pı | protein_coding | 1 | 2 | 2 | 3 | 1.458 |
| 101927424 | XR_001739653,XR_ | **LINC01961** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 101927429 | NR_136328 | **LOC101927429** | lysine methyltransferase | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101927430 | NR_146471 | **LINC01903** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927431 | NR_110223 | **LINC01790** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927432 | XR_001740910,XR_ | **LOC101927432** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927433 | NR_110778,NR_11( | **LINC01255** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927434 | NR_125943 | **LOC101927434** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927436 | XR_242964 | **LOC101927436** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927437 | NR_120421 | **LOC101927437** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927438 | NR_110224 | **LINC01800** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927439 | XR_427355,XR_941 | **LOC101927439** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927440 | NR_146969 | **SRGAP3-AS4** | SRGAP3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927441 | XR_002958255,XR_ | **LOC101927441** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.280 |
| 101927445 | XR_946261 | **LOC101927445** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927446 | NR_110085 | **LOC101927446** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927447 | NR_134582 | **SCUBE1-AS1** | SCUBE1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927449 | NR_110385 | **LINC01282** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927450 | NR_109771 | **LOC101927450** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927452 | XR_002958627,XR_ | **LOC101927452** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927454 | XR_923737 | **LOC101927454** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.180 |
| 101927455 | NR_110812 | **TMEM108-AS1** | TMEM108 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927457 | NR_110027 | **LINC01522** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927459 | NR_125416,NR_12 | **LINC01608** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927460 | NR_109887 | **LINC02240** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927461 | XR_242763 | **LOC101927461** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927464 | NR_110053 | **LINC02359** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927465 | NR_046525,NR_12( | **CLYBL-AS1** | CLYBL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927467 | XR_245182 | **LOC101927467** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927468 | NR_120331 | **LOC101927468** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927469 | XR_001752337,XR_ | **LOC101927469** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.751 |
| 101927472 | NR_120622 | **ITPRIP-AS1** | ITPRIP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927473 | XR_001744962,XR_ | **LOC101927473** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927474 | XR_001755581 | **LOC101927474** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927476 | NR_110386 | **LOC101927476** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927477 | NR_121212,NR_12 | **LINC01507** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927478 | NR_110630 | **LOC101927478** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927479 | XR_001737899,XR_ | **LOC101927479** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927480 | NR_134971 | **LOC101927480** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.897 |
| 101927481 | NR_126336 | **LINC01909** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927482 | NR_110225,NR_11( | **HECW2-AS1** | HECW2 antisense RNA : | lncRNA | 13 | 10 | 14 | 11 | 0.756 |
| 101927483 | XR_429360,XR_943 | **LOC101927483** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927484 | XR_245987,XR_245 | **LOC101927484** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927486 | XR_244188 | **LOC101927486** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927487 | NR_125418 | **LINC01609** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927488 | NR_105039,NR_10! | **LOC101927488** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927489 | NR_120623 | **TCERG1L-AS1** | TCERG1L antisense RN/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927490 | XR_001741855,XR_ | **LOC101927490** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927492 | NR_110227 | **MRPS9-AS1** | MRPS9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927494 | NR_135563 | **LINC02070** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927495 | NR_110189 | **LOC101927495** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927496 | XR_243856,XR_935 | **LOC101927496** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927497 | NR_110086,NR_11( | **CDK6-AS1** | CDK6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.199 |
| 101927498 | NR_110632,NR_11( | **LINC01361** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927499 | XR_244444 | **LOC101927499** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927501 | NR_110387 | **PINCR** | p53-induced noncoding I | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927502 | NR_109772 | **LOC101927502** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927503 | NR_160890 | **LINC02688** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927504 | NR_146473,NR_14( | **LINC01682** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927505 | NR_147041 | **LINC02348** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 101927506 | NR_168395 | **LOC101927506** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.107 |
| 101927509 | NR_168372 | **LOC101927509** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927510 | XR_001752946,XR_ | **LOC101927510** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 101927511 | XR_001753359,XR_ | **LOC101927511** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927512 | XR_001754715,XR_ | **LINC01275** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927513 | NR_134297 | **LOC101927513** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927514 | XR_001742873,XR_ | **LOC101927514** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927516 | NR_147610 | **LOC101927516** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927518 | XR_001740561,XR_ | **LOC101927518** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927519 | gene-TUBBP8 | **TUBBP8** | tubulin beta class I pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927521 | XR_001753366,XR_ | **LOC101927521** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927522 | XR_001753929,XR_ | **LOC101927522** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927523 | NR_120624 | **LINC02620** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927524 | NR_110094 | **LINC02587** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927525 | NR_147206 | **COL1A2-AS1** | COL1A2 antisense RNA | lncRNA | 2 | 2 | 3 | 3 | 1.016 |
| 101927526 | NR_109966 | **LINC01656** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927528 | NR_104644,NR_10 | **LINC01204** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927531 | XR_001749380,XR_ | **LOC101927531** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927532 | NR_135116 | **LINC01736** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927533 | XR_245013 | **LOC101927533** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927536 | XR_001752207,XR_ | **LOC101927536** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927538 | XR_001744282,XR_ | **LOC101927538** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.928 |
| 101927539 | NR_110807 | **LOC101927539** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927541 | NR_109943 | **LINC01273** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927542 | NR_146478 | **LINC01712** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927543 | NR_125419 | **LOC101927543** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.080 |
| 101927546 | XR_001737901,XR_ | **ANO7L1** | anoctamin 7 like 1 (pseu | transcribed_pseu | 0 | 0 | 1 | 1 | 1.102 |
| 101927547 | NR_046837 | **ANKRD44-IT1** | ANKRD44 intronic transc | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 101927548 | XR_001753531 | **LOC101927548** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927549 | NR_120625 | **LINC02627** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927550 | NR_110102 | **LOC101927550** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 0.950 |
| 101927551 | NR_147506 | **LOC101927551** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927552 | XR_001746783,XR_ | **LOC101927552** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 101927553 | NR_146479 | **LINC01737** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927554 | NR_110228 | **LINC01250** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927556 | XR_001752222,XR_ | **LOC101927556** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 101927557 | NR_110808 | **LOC101927557** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927558 | XR_001745101,XR_ | **LOC101927558** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927559 | NR_125739 | **CEBPB-AS1** | CEBPB antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.992 |
| 101927560 | NR_119374 | **LOC101927560** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927565 | NR_110135 | **LINC01267** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927566 | XR_245320 | **LOC101927566** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927571 | NR_110782 | **LOC101927571** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.864 |
| 101927572 | NM_001290056,NM | **LOC101927572** | uncharacterized LOC101 | protein_coding | 13 | 14 | 14 | 15 | 1.070 |
| 101927573 | XR_246185,XR_946 | **LOC101927573** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927574 | NR_110388 | **LINC01186** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927575 | NR_110995 | **LOC101927575** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927577 | NR_110264,NR_11( | **LINC01797** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927579 | NR_145478 | **DNM1P50** | dynamin 1 pseudogene ! | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101927580 | NR_110917 | **LINC02141** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927581 | NM_001282544 | **CCDC182** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101927583 | NR_120450 | **LOC101927583** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101927584 | XR_945927 | **LOC101927584** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927586 | NR_109950 | **LINC01271** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.098 |
| 101927587 | NR_119375 | **LINC01725** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927588 | NR_125420 | **LOC101927588** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 101927590 | NR_120626,NR_12( | **LINC01166** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927591 | NR_132105 | **DPP10-AS3** | DPP10 antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927592 | NR_104646 | **LINC02405** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927596 | NR_135584 | **ANKRD44-AS1** | ANKRD44 antisense RN/ | lncRNA | 1 | 0 | 2 | 1 | 0.578 |
| 101927597 | NR_110175,NR_11( | **NCK1-DT** | NCK1 divergent transcrip | lncRNA | 7 | 8 | 8 | 9 | 1.179 |
| 101927598 | XR_002957604,XR_ | **LOC101927598** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927599 | NR_110703,NR_11( | **ZNF529-AS1** | ZNF529 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.785 |
| 101927600 | XR_246186,XR_946 | **LOC101927600** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.600 |
| 101927602 | XR_001746690,XR_ | **LOC101927602** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927603 | XR_001746520 | **LOC101927603** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 101927604 | NR_110681 | **LOC101927604** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927605 | XR_001752229,XR_ | **LOC101927605** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927606 | NR_131977 | **LINC01922** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927608 | XR_245991 | **LOC101927608** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927609 | XR_927073 | **LOC101927609** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.917 |
| 101927610 | XR_001745295,XR_ | **LOC101927610** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.200 |
| 101927612 | NR_108047,NR_108 | **RNF139-AS1** | RNF139 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.983 |
| 101927613 | XR_001741432 | **LOC101927613** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927615 | XR_001754942,XR_ | **LOC101927615** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927616 | NR_110057 | **LINC02375** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927619 | NR_110267 | **LINC01923** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927620 | NR_110062 | **LOC101927620** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.795 |
| 101927621 | NR_110707,NR_11( | **LINC01534** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927623 | NR_110996 | **LOC101927623** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927624 | NR_120534 | **LINC01150** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927627 | XR_001750012,XR_ | **LOC101927627** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927629 | XR_243458,XR_933 | **LINC02165** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927630 | NR_110013 | **LOC101927630** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.153 |
| 101927631 | NR_110007,NR_11( | **ADNP-AS1** | ADNP antisense RNA 1 | lncRNA | 7 | 9 | 8 | 10 | 1.242 |
| 101927632 | XR_242320,XR_428 | **PPP1R35-AS1** | PPP1R35 antisense RNA | lncRNA | 4 | 4 | 5 | 5 | 1.058 |
| 101927635 | NR_135596 | **LOC101927635** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.768 |
| 101927636 | NR_125886 | **LOC101927636** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927637 | NR_120451 | **LINC02411** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927640 | NR_121193 | **LAMA4-AS1** | LAMA4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927641 | NR_110270 | **LINC01877** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927642 | NR_110783 | **LINC01444** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927646 | XR_002957495,XR_ | **LOC101927646** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927647 | XR_001740422 | **LOC101927647** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927650 | NR_110918 | **LINC02126** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927651 | NR_110784 | **LINC01927** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927653 | NR_120452 | **LINC02388** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927655 | NM_001289933 | **ZASP** | ZO-2 associated speckle | protein_coding | 0 | 0 | 1 | 1 | 0.995 |
| 101927657 | NR_125421 | **LOC101927657** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927659 | NR_108077 | **SMAD1-AS2** | SMAD1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927661 | NR_110568 | **LOC101927661** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927664 | XR_245572,XR_942 | **LOC101927664** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927666 | NR_110809 | **LOC101927666** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 101927667 | NR_110718,NR_11( | **LINC01535** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927668 | NR_110114 | **LOC101927668** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 101927671 | NR_108078,NR_108 | **MIR202HG** | MIR202 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927673 | XR_247234 | **LOC101927673** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 0.981 |
| 101927678 | NR_110016 | **LINC01429** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927682 | NR_108080 | **CD81-AS1** | CD81 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 101927683 | NR_110683 | **LINC01744** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927685 | NM_001351114 | **HSFX4** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101927686 | NR_125844 | **LINC02541** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927687 | XR_001739856,XR_ | **LOC101927687** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.887 |
| 101927688 | NR_110810 | **SEPTIN4-AS1** | SEPTIN4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 101927690 | NR_135241 | **LOC101927690** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927691 | NR_110853 | **LOC101927691** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927692 | NR_120628 | **LOC101927692** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927693 | XR_246584 | **ACSL6-AS1** | ACSL6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927694 | NR_104648 | **LINC02368** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927697 | NR_109888 | **LINC02227** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927698 | NR_110785 | **DSCAS** | DSC1/DSC2 antisense R | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927699 | NR_155739,NR_155 | **LOC101927699** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927700 | NR_110038 | **LINC01524** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927701 | NR_110271 | **LINC01812** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927702 | XR_001750787,XR_ | **LOC101927702** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927703 | NR_125804 | **FOXCUT** | FOXC1 upstream transcı | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927704 | NR_121650,NR_12: | **MIR3663HG** | MIR3663 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927708 | NR_126335 | **LOC101927708** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927709 | NR_110272 | **LOC101927709** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927711 | XR_247101,XR_949 | **LOC101927711** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927712 | XR_931726 | **LOC101927712** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927715 | NR_104127 | **LINC01029** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927717 | gene-GTF2IP8 | **GTF2IP8** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927718 | NR_110788,NR_11( | **DSG1-AS1** | DSG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927720 | NR_110723 | **ZNF793-AS1** | ZNF793 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927721 | NR_146480 | **LNCPRESS1** | lncRNA p53 regulated ar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927722 | NR_109967 | **LINC01644** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.975 |
| 101927723 | XR_245020 | **LOC101927723** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 101927726 | NR_109960 | **BEAN1-AS1** | BEAN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927727 | NR_135633 | **LOC101927727** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927728 | NR_110813 | **LINC01476** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927729 | NR_146481 | **LINC02322** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927730 | NR_110841 | **LOC101927730** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927735 | NR_110058 | **TMEM132D-AS2** | TMEM132D antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927740 | NR_109890 | **LINC02202** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927741 | XR_001739164,XR_ | **LOC101927741** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 101927745 | XR_001754962,XR_ | **LOC101927745** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927746 | NR_110115 | **EMSLR** | E2F1 mRNA stabilizing I | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927750 | NR_110273,NR_11( | **ATP6V1B1-AS1** | ATP6V1B1 antisense RN | lncRNA | 4 | 3 | 5 | 4 | 0.878 |
| 101927751 | NR_135827,NR_13! | **LOC101927751** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927752 | NR_134302,NR_13( | **LOC101927752** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.214 |
| 101927755 | NR_110815,NR_11( | **RNFT1-DT** | RNFT1 divergent transcr | lncRNA | 10 | 7 | 11 | 8 | 0.728 |
| 101927756 | XR_943921 | **LOC101927756** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927759 | NR_152848 | **LOC101927759** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.930 |
| 101927760 | XR_001747602,XR_ | **LOC101927760** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927761 | NR_132124,NR_13: | **TH2LCRR** | T helper type 2 locus cor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927762 | NR_120629 | **LOC101927762** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927763 | NR_133006 | **OLFM5P** | olfactomedin family mem | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101927764 | XR_001739667,XR_ | **LOC101927764** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927765 | NR_125961,NR_125 | **COA6-AS1** | COA6 antisense RNA 1 | lncRNA | 3 | 4 | 4 | 5 | 1.080 |
| 101927766 | NR_109891 | **LINC01847** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927768 | NR_125845 | **HDAC2-AS2** | HDAC2 and HS3ST5 ant | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 101927769 | NR_110117 | **LOC101927769** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927770 | NR_110051 | **LOC101927770** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927774 | NR_121672,NR_12: | **LINC00824** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927777 | NR_125803 | **SATB1-AS1** | SATB1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927780 | NR_110416,NR_11( | **LINC01303** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.294 |
| 101927785 | gene-LOC10192778 | **LOC101927785** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927786 | XR_242978,XR_945 | **LOC101927786** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927787 | NR_125944 | **LOC101927787** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927788 | XR_001751763,XR_ | **LOC101927788** | uncharacterized LOC101 | misc_RNA | 2 | 2 | 3 | 3 | 1.055 |
| 101927789 | NR_160547,NR_16( | **LOC101927789** | FAU, ubiquitin like and ri | transcribed_pseu | 5 | 5 | 6 | 6 | 0.930 |
| 101927790 | XR_001742950 | **LOC101927790** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927793 | NR_135194 | **LOC101927793** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927795 | NR_110275 | **BZW1-AS1** | BZW1 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.812 |
| 101927796 | NR_110064 | **LINC01441** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927797 | NR_109925 | **MIR548XHG** | MIR548X host gene | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 101927798 | NR_125422 | **LOC101927798** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101927801 | XR_923273,XR_923 | **LINC01823** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927802 | NR_120415 | **LINC00368** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927808 | NR_108084 | **CLSTN2-AS1** | CLSTN2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.068 |
| 101927809 | NR_134605 | **LOC101927809** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927811 | NR_110119,NR_110 | **LOC101927811** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927813 | NR_109892 | **HMMR-AS1** | HMMR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927814 | NR_110930 | **LOC101927814** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927815 | NR_125423,NR_125 | **LOC101927815** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927817 | NR_110931,NR_110 | **LOC101927817** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927821 | NR_109958 | **LINC01425** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927822 | NR_125424 | **LOC101927822** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927823 | XR_242638 | **LOC101927823** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927824 | NR_160681,NR_160 | **LOC101927824** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.948 |
| 101927825 | XR_001748105,XR_ | **LOC101927825** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927827 | NR_121564 | **LOC101927827** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927828 | NR_108085 | **OVOL1-AS1** | OVOL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927829 | NR_110814 | **LOC101927829** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927830 | NR_109985 | **LOC101927830** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 101927832 | NR_125393 | **PAQR9-AS1** | PAQR9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927833 | gene-IFNL4P1 | **IFNL4P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927834 | XR_001739706,XR_ | **LOC101927834** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927835 | NR_105064 | **LINC02143** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927837 | XR_001752246,XR_ | **LOC101927837** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 1.014 |
| 101927839 | NR_110888 | **LOC101927839** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927840 | XR_001739861,XR_ | **LOC101927840** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927843 | NR_109959 | **LINC01687** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927844 | NR_167752 | **LINC02801** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.273 |
| 101927845 | NR_125427 | **LOC101927845** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927846 | XR_001751437 | **LOC101927846** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927847 | NR_109791 | **LOC101927847** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927849 | NR_125887 | **LINC02355** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927851 | NR_125945 | **LOC101927851** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927854 | NR_121667 | **THRB-AS2** | THRB antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927855 | NR_136397 | **LOC101927855** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927857 | XR_001753416,XR_ | **LOC101927857** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927858 | XR_242051 | **RNF32-AS1** | RNF32 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.867 |
| 101927859 | NR_136572,NR_165 | **FAM230G** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927861 | XR_940252 | **LINC01293** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927862 | NR_109894 | **CTB-178M22.2** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927863 | XR_001752307 | **LOC101927863** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927864 | XR_934153 | **LOC101927864** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927865 | NR_110283 | **MYOSLID-AS1** | MYOSLID antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927866 | NR_135560,NR_135 | **LINC02010** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927868 | XR_246196 | **GRK5-IT1** | GRK5 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.152 |
| 101927869 | NR_109963 | **LINC01689** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927870 | NR_110141 | **LOC101927870** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927871 | XR_001737678,XR_ | **LOC101927871** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927872 | XR_002956730,XR_ | **LOC101927872** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927873 | NR_109795 | **LINC01508** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927876 | NR_125946 | **LINC01654** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927877 | NR_135634 | **MARCHF10-DT** | MARCHF10 divergent tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927879 | XR_001753422 | **LOC101927879** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927880 | NR_155743,NR_155 | **LINC02669** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927881 | NR_110278 | **LOC101927881** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927882 | XR_242906 | **LOC101927882** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927884 | NR_110281 | **LOC101927884** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927886 | NR_131972 | **RFX5-AS1** | RFX5 antisense RNA 1 | lncRNA | 4 | 4 | 5 | 5 | 0.980 |
| 101927888 | XR_241961,XR_926 | **LOC101927888** | uncharacterized LOC101 | lncRNA | 3 | 2 | 4 | 3 | 0.768 |
| 101927889 | XR_246197 | **LINC01153** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927890 | XR_242147,XR_927 | **LOC101927890** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927891 | NR_110682 | **PKN2-AS1** | PKN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 101927895 | NR_135114,NR_135 | **EMC1-AS1** | EMC1 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.779 |
| 101927896 | XR_002959457 | **LOC101927896** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927897 | XR_001753515 | **LOC101927897** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927898 | XR_243740 | **LOC101927898** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927900 | NR_110791 | **LINC01477** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.451 |
| 101927901 | NR_110063 | **LINC02421** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927904 | XR_002957059,XR_ | **LINC02660** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927905 | NR_120454,NR_120 | **LINC02449** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927907 | NR_110284 | **LRRTM4-AS1** | LRRTM4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927908 | NR_134280 | **LOC101927908** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927911 | NR_110818 | **LOC101927911** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927913 | XR_241962 | **CDYL-AS1** | CDYL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927914 | NR_110157 | **LOC101927914** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927915 | NR_125428 | **LOC101927915** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927917 | NR_120537,NR_120 | **TUB-AS1** | TUB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927919 | NR_110854 | **LOC101927919** | uncharacterized LOC101 | lncRNA | 4 | 3 | 5 | 4 | 0.807 |
| 101927921 | NR_110792 | **LINC01478** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927922 | NR_120456 | **LINC01479** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927923 | gene-LOC10192792 | **LOC101927923** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927924 | NR_110285 | **LINC01856** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927926 | NR_110286 | **LINC01851** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927931 | NR_110724 | **LINC01480** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.355 |
| 101927932 | NR_126334 | **LOC101927932** | uncharacterized LOC101 | lncRNA | 2 | 1 | 3 | 2 | 0.743 |
| 101927934 | NR_105045 | **LINC01843** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927935 | XR_001746831,XR_ | **LOC101927935** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927936 | XR_931009,XR_931 | **RIC3-DT** | RIC3 divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927942 | XR_241588 | **LOC101927942** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927943 | XR_002958203 | **SETBP1-DT** | SETBP1 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 101927944 | NR_120630,NR_120 | **FAM53B-AS1** | FAM53B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927947 | XR_001741892 | **LOC101927947** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927948 | NR_110287 | **LOC101927948** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927949 | XR_001738236,XR_ | **LOC101927949** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927950 | NR_110842 | **LOC101927950** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927952 | XR_001738138 | **LOC101927952** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927953 | NR_105049,NR_105 | **C5orf66-AS1** | C5orf66 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927954 | NR_121565 | **LOC101927954** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927957 | NR_126330,NR_155 | **LINC01572** | long intergenic non-prote | lncRNA | 1 | 2 | 2 | 3 | 1.317 |
| 101927960 | NR_136588 | **LOC101927960** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927961 | XR_243875,XR_430 | **LOC101927961** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927963 | XR_001746121,XR_ | **LOC101927963** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 0.879 |
| 101927964 | NR_120632 | **LOC101927964** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927966 | XR_002957399 | **LOC101927966** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927967 | NR_110288 | **LOC101927967** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927969 | NR_130737 | **SLIT3-AS2** | SLIT3 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927971 | XR_001750991,XR_ | **LOC101927971** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927972 | NR_125846,NR_125 | **LOC101927972** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927973 | NR_126012 | **LINC01695** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927974 | NR_144536,NR_144 | **LOC101927974** | uncharacterized LOC101 | lncRNA | 9 | 11 | 10 | 12 | 1.154 |
| 101927975 | XR_001738141 | **LOC101927975** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.919 |
| 101927978 | XR_001752372,XR_ | **LOC101927978** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 101927979 | XR_001752769 | **LOC101927979** | uncharacterized LOC101 | lncRNA | 6 | 6 | 7 | 7 | 0.916 |
| 101927980 | XR_002958204,XR_ | **SLC14A2-AS1** | SLC14A2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927983 | NR_120633 | **EDRF1-AS1** | EDRF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927984 | gene-LOC10192798 | **LOC101927984** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927987 | NR_110289 | **CTNNA2-AS1** | CTNNA2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927988 | XR_241125 | **LINC01527** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927989 | NR_136504 | **LOC101927989** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927990 | NR_110844 | **TRDN-AS1** | TRDN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927992 | NR_110167,NR_110 | **LINC01213** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927993 | XR_001746838,XR_ | **LOC101927993** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927994 | NR_108087 | **LINC01087** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927995 | XR_001740626,XR_ | **LOC101927995** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101927997 | gene-LOC10192799 | **LOC101927997** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101927999 | XR_001752313 | **LOC101927999** | putative uncharacterized | transcribed_pseu | 1 | 2 | 2 | 3 | 1.187 |
| 101928000 | NR_135657,NR_135 | **ZNF232-AS1** | ZNF232 antisense RNA | lncRNA | 12 | 13 | 13 | 14 | 1.044 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101928001 | NR_110822 | **PRKCA-AS1** | PRKCA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928002 | NR_110072,NR_15 | **LOC101928002** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928004 | XR_001743942,XR_ | **LOC101928004** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928005 | XR_948815 | **LOC101928005** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.880 |
| 101928007 | XR_001741910,XR_ | **LOC101928007** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928008 | NR_120539 | **LOC101928008** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928009 | NR_110685 | **LOC101928009** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928010 | gene-LOC10192801 | **LOC101928010** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928012 | NR_110158 | **LOC101928012** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928014 | XR_001746573 | **LOC101928014** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928015 | NR_147054 | **LINC01985** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928016 | gene-LOC10192801 | **LOC101928016** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928017 | NR_110078 | **UBXN10-AS1** | UBXN10 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928020 | NR_110291 | **KANSL1L-AS1** | KANSL1L antisense RNA | lncRNA | 1 | 2 | 2 | 3 | 1.135 |
| 101928021 | NR_136398 | **LOC101928021** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.882 |
| 101928022 | NR_110186,NR_11( | **LINC01214** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928030 | NR_120481 | **LOC101928030** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928031 | NR_146482 | **LINC01809** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928032 | XR_001755763,XR_ | **LOC101928032** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.098 |
| 101928033 | NR_109899 | **KCNIP1-OT1** | KCNIP1 overlapping tran | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928034 | NR_125947 | **LOC101928034** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928035 | NR_104657 | **LOC101928035** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928036 | NR_110162 | **HRAT17** | heart tissue-associated ti | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928037 | XR_242442 | **LOC101928037** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928039 | XR_001751432,XR_ | **LOC101928039** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928040 | NR_144455 | **BARX1-DT** | BARX1 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928041 | gene-LOC10192804 | **LOC101928041** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928042 | NR_135833 | **LOC101928042** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.717 |
| 101928043 | NR_110692 | **LINC01635** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928044 | gene-LOC10192804 | **LOC101928044** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928045 | XR_001752979,XR_ | **LOC101928045** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.113 |
| 101928046 | XR_943988,XR_943 | **LOC101928046** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928047 | XR_001743949,XR_ | **LOC101928047** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928048 | NR_109903 | **LOC101928048** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928051 | XR_001747340,XR_ | **LOC101928051** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928052 | NR_125888 | **LOC101928052** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928053 | NR_120540 | **LOC101928053** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 101928055 | XR_001755748,XR_ | **LOC101928055** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 1.035 |
| 101928058 | NR_136274,NR_13( | **LOC101928058** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928059 | XR_426845,XR_426 | **LOC101928059** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.978 |
| 101928062 | NR_120459,NR_12( | **PRANCR** | progenitor renewal assoc | lncRNA | 3 | 3 | 4 | 4 | 1.054 |
| 101928063 | NR_110727 | **LOC101928063** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928067 | NR_146484,NR_14( | **LINC01945** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928068 | NR_111907 | **LOC101928068** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 101928069 | NR_120586 | **LOC101928069** | uncharacterized LOC101 | lncRNA | 4 | 4 | 5 | 5 | 1.050 |
| 101928075 | NR_110071 | **LOC101928075** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928076 | XR_241970,XR_241 | **LOC101928076** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928077 | XR_927131 | **LOC101928077** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928078 | gene-LOC10192807 | **LOC101928078** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928079 | NR_104131,NR_16( | **SLC44A3-AS1** | SLC44A3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928080 | XR_930619,XR_930 | **LOC101928080** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928081 | XR_244745 | **LOC101928081** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928084 | XR_241401,XR_923 | **LOC101928084** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928085 | NR_121674,NR_12( | **ERICH6-AS1** | ERICH6 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.441 |
| 101928087 | NR_134305 | **LOC101928087** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928089 | XR_001737767,XR_ | **SMYD3-AS1** | SMYD3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928092 | XR_001755776,XR_ | **LOC101928092** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.911 |
| 101928093 | NR_161233 | **LOC101928093** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928095 | NR_168401 | **LOC101928095** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928096 | XR_001743834 | **LOC101928096** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 101928098 | NR_132786 | **ALG14-AS1** | ALG14 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928099 | NR_121566,NR_12( | **PCAT7** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928100 | NR_120430 | **KLRK1-AS1** | KLRK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928101 | NR_147855 | **IL6R-AS1** | IL6R antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928103 | NR_110292 | **SNHG31** | small nucleolar RNA hos | lncRNA | 2 | 2 | 3 | 3 | 0.942 |
| 101928104 | NR_110825 | **LINC01482** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928105 | NR_121657 | **LOC101928105** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.039 |
| 101928106 | XR_241972,XR_926 | **LINC02522** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928107 | NR_109961 | **LOC101928107** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928108 | NM_001368160 | **LY6L** | lymphocyte antigen 6 far | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928111 | NR_135575,NR_13! | **HDAC4-AS1** | HDAC4 antisense RNA 1 | lncRNA | 1 | 2 | 2 | 3 | 1.372 |
| 101928113 | NR_110569 | **ST3GAL5-AS1** | ST3GAL5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.895 |
| 101928114 | XR_001740635,XR_ | **LINC01811** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928118 | NR_125948,NR_12! | **LOC101928118** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928119 | NR_147613,NR_14 | **LOC101928119** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928120 | NM_001321726 | **LOC101928120** | uncharacterized LOC101 | protein_coding | 1 | 1 | 2 | 2 | 0.918 |
| 101928122 | NR_109971,NR_10! | **LINC01483** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928123 | NR_135248 | **LOC101928123** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928126 | NR_134561 | **LOC101928126** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.264 |
| 101928128 | NR_110651 | **LOC101928128** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928131 | NR_121677 | **LOC101928131** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928132 | NR_135052 | **LINC02683** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928134 | NR_120326,NR_12( | **LOC101928134** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928135 | NR_110817 | **LOC101928135** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928136 | NR_108027 | **LINC01484** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928137 | NR_110130 | **LINC02444** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928138 | NR_120462 | **LINC01486** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928140 | NR_125849 | **PTPRK-AS1** | PTPRK antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928141 | NR_104129,NR_10 | **LINC01028** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928142 | NR_110202,NR_11( | **AADACL2-AS1** | AADACL2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928143 | NR_135251 | **LOC101928143** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928144 | XR_243880,XR_935 | **LINC02837** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928145 | gene-LOC10192814 | **LOC101928145** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928146 | XR_001743961,XR_ | **LOC101928146** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928147 | NM_001282537 | **FAM243A** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928150 | NR_120634 | **LINC02648** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.852 |
| 101928151 | NR_121676 | **LINC01179** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928152 | XR_001739578,XR_ | **LOC101928152** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928153 | NR_110531,NR_11( | **ITGA9-AS1** | ITGA9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928154 | NR_108028 | **LINC01485** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928156 | XR_923872 | **LOC101928156** | uncharacterized LOC101 | lncRNA | 26 | 27 | 27 | 28 | 1.054 |
| 101928158 | NR_109922,NR_10! | **LAMA5-AS1** | LAMA5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928160 | NR_134306 | **LOC101928160** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928161 | NR_110294 | **NCKAP5-AS2** | NCKAP5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928162 | NR_120463 | **LINC02366** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928163 | NR_110799 | **LOC101928163** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928165 | NR_104152 | **CASC17** | cancer susceptibility 17 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928166 | NR_136178 | **LOC101928166** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928167 | NR_110800 | **LINC01917** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 101928168 | NR_120523 | **LOC101928168** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928169 | NR_146486 | **LINC01650** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928173 | XR_245039 | **LINC01943** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.112 |
| 101928174 | NR_120329 | **LOC101928174** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928176 | NR_125806 | **LINC01411** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928177 | NR_135113 | **LOC101928177** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928180 | XR_001739882,XR_ | **LOC101928180** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 101928185 | NR_135572 | **NCKAP5-AS1** | NCKAP5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928188 | XR_001752352,XR_ | **LOC101928188** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928190 | NR_125399 | **LINC01487** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928191 | NR_125851 | **LOC101928191** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928193 | XM_011519275,XM_ | **LOC101928193** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928195 | NR_135597 | **LOC101928195** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101928196 | XR_001739314,XR_ | **LOC101928196** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928200 | NR_120541 | **MRGPRF-AS1** | MRGPRF antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928201 | NR_110390 | **LOC101928201** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928202 | XR_001738254 | **LOC101928202** | SLAM family member 5 | lncRNA | 0 | 0 | 1 | 1 | 1.023 |

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|---|---|---|---|---|---|---|---|---|---|
| 101928203 | NR_110934 | **LINC02125** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928205 | NR_110827 | **LINC02097** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928211 | NR_110180 | **LOC101928211** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928212 | XM_017028524,XM | **LOC101928212** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928214 | XR_001739580,XR_ | **LOC101928214** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 101928215 | XR_001752356,XR_ | **LOC101928215** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928216 | XR_001737945,XR_ | **LOC101928216** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 101928217 | XR_001741554,XR_ | **LOC101928217** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928219 | XR_001738162,XR_ | **LOC101928219** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928222 | NR_110235 | **LOC101928222** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928223 | NR_125889 | **LINC01612** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928226 | NR_125950 | **LYPD9P** | LY6/PLAUR domain cont | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101928227 | NR_120330 | **LINC02345** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928228 | XR_247295 | **LOC101928228** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928230 | XR_243478,XR_429 | **LOC101928230** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.079 |
| 101928231 | NR_125852 | **CT69** | cancer/testis associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928232 | NR_110392 | **LINC01280** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928233 | NR_131192 | **LINC01671** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928234 | XR_001740658,XR_ | **LOC101928234** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 101928235 | XR_243587,XR_429 | **CTB-41I6.1** | uncharacterized CTB-41I | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928236 | XR_001740979,XR_ | **LOC101928236** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 101928237 | XR_001741560,XR_ | **LOC101928237** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928238 | NR_134920,NR_134 | **ZNF426-DT** | ZNF426 divergent transc | lncRNA | 3 | 3 | 4 | 4 | 0.948 |
| 101928241 | NR_110693 | **LINC01787** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928242 | gene-LOC10192824 | **LOC101928242** | transmembrane protein 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928243 | NR_110199,NR_110 | **DARS-AS1** | DARS antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.103 |
| 101928244 | NR_120464 | **TESC-AS1** | TESC antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928248 | NR_104660,NR_104 | **LINC01229** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928251 | NR_135635 | **LOC101928251** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928253 | NR_125853 | **LOC101928253** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928254 | NR_110182,NR_110 | **LOC101928254** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928255 | XR_001755069,XR_ | **LOC101928255** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928256 | gene-UBE2Q2P10 | **UBE2Q2P10** | . | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 101928257 | XR_246513,XR_927 | **LOC101928257** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928259 | NR_110391 | **PHKA1-AS1** | PHKA1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928263 | XR_245209,XR_940 | **LOC101928263** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928264 | XR_922193 | **LOC101928264** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928266 | NR_110828 | **LOC101928266** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928268 | XM_005249925 | **LOC101928268** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928269 | NR_110418 | **LOC101928269** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928270 | NR_125951 | **LINC01708** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928271 | XR_244595 | **LINC02850** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928272 | NR_120635 | **LOC101928272** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928273 | NR_120402 | **LOC101928273** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928274 | XR_001749342,XR_ | **LOC101928274** | uncharacterized LOC101 | lncRNA | 5 | 5 | 6 | 6 | 1.026 |
| 101928276 | NR_104665,NR_104 | **LINC01227** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.942 |
| 101928277 | XR_001744363,XR_ | **LOC101928277** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928278 | XR_001739169,XR_ | **LOC101928278** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928279 | NR_125892 | **LOC101928279** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.238 |
| 101928280 | NR_125854 | **LINC02549** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928283 | NR_110188 | **LOC101928283** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928284 | XR_244323 | **PDE9A-AS1** | PDE9A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928287 | NR_110393 | **LINC01285** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928288 | XR_001741531 | **LINC02504** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928290 | NR_120465 | **PLBD1-AS1** | PLBD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928292 | NR_120542,NR_120 | **LINC01488** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928295 | NR_110729 | **LOC101928295** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928296 | gene-LOC10192829 | **LOC101928296** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928298 | NR_120636 | **LINC02670** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928300 | XR_243033 | **LOC101928300** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928303 | NR_110698 | **ZPLD2P** | zona pellucida like doma | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928304 | NR_125855,NR_125 | **LOC101928304** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928306 | NR_125893 | **LOC101928306** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928307 | NR_125872 | **LOC101928307** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928309 | NR_149140 | **LINC02530** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928311 | NR_135517 | **LINC01668** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928314 | NR_125894,NR_125 | **GALNTL6-AS1** | GALNTL6 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928316 | XR_001748478,XR_ | **LINC02859** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928317 | XR_001749015,XR_ | **LOC101928317** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928322 | NR_120637 | **CELF2-DT** | CELF2 divergent transrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928323 | NR_125400 | **LOC101928323** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928324 | NR_125952,NR_125 | **DHDDS-AS1** | DHDDS antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.796 |
| 101928326 | XR_245604 | **LOC101928326** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928327 | NR_130782 | **LINC01921** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928331 | XR_001743994,XR_ | **LOC101928331** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.941 |
| 101928333 | NR_110194,NR_110 | **GRM8-AS1** | GRM8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928334 | XR_001738166,XR_ | **LOC101928334** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928335 | NR_110395 | **LOC101928335** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928336 | NR_110396 | **LOC101928336** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928337 | NR_147055 | **PTCSC2** | papillary thyroid carcinor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928338 | XR_001748480,XR_ | **LOC101928338** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928340 | NR_120466 | **LINC01489** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928343 | NR_158152 | **LOC101928343** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928344 | XR_002958436,XR_ | **LOC101928344** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.012 |
| 101928345 | NR_110398 | **PABPC1L2B-AS1** | PABPC1L2B antisense F | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928346 | XR_002957435,XR_ | **KDM2B-DT** | KDM2B divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928347 | XR_245041 | **LOC101928347** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928350 | XR_243592,XR_934 | **LOC101928350** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928351 | XR_241608,XR_924 | **LOC101928351** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.042 |
| 101928352 | XR_944029 | **LOC101928352** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928353 | NR_125857 | **EVADR** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928354 | XR_001743989,XR_ | **LOC101928354** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928357 | XR_927936,XR_927 | **LOC101928357** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928358 | NR_110652 | **LOC101928358** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928359 | XR_001755950,XR_ | **LOC101928359** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928361 | XR_244865 | **LOC101928361** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.027 |
| 101928362 | XR_001749028,XR_ | **LOC101928362** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928363 | NR_120332 | **EHD4-AS1** | EHD4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928368 | XR_244309 | **LOC101928368** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928369 | XR_244325,XR_937 | **LOC101928369** | uncharacterized LOC101 | lncRNA | 2 | 1 | 3 | 2 | 0.759 |
| 101928370 | NR_104626 | **LOC101928370** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.059 |
| 101928371 | NR_110236 | **LOC101928371** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 101928372 | NR_110695 | **LOC101928372** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928373 | XR_001744373,XR_ | **LOC101928373** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 101928376 | NR_108088 | **IL12A-AS1** | IL12A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928377 | XR_245788 | **LOC101928377** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928378 | NR_110730 | **PTOV1-AS2** | PTOV1 antisense RNA 2 | lncRNA | 8 | 7 | 9 | 8 | 0.896 |
| 101928380 | XR_001755882,XR_ | **LOC101928380** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928381 | NR_121570 | **LOC101928381** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928383 | XR_002959830,XR_ | **LOC101928383** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 101928384 | XR_244779 | **LOC101928384** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928385 | XR_242863 | **LOC101928385** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928386 | NR_110237 | **LOC101928386** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928387 | XR_001749034,XR_ | **LOC101928387** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 101928388 | NR_120334 | **PLA2G4E-AS1** | PLA2G4E antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.285 |
| 101928389 | NR_135631 | **LOC101928389** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928391 | XR_947110,XR_947 | **LOC101928391** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.357 |
| 101928392 | XR_243484,XR_933 | **LOC101928392** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928397 | XR_001744995,XR_ | **LOC101928397** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928398 | NR_109926 | **LOC101928398** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928399 | NR_131902 | **LINC01679** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928401 | NR_108099 | **LOC101928401** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928402 | NR_130770 | **LOC101928402** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.717 |
| 101928403 | NR_135540 | **EIF2AK3-DT** | EIF2AK3 divergent transc | lncRNA | 2 | 2 | 3 | 3 | 0.881 |
| 101928404 | NR_110699 | **RGS5-AS1** | RGS5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928405 | XR_241610 | **LINC02023** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101928406 | XR_241981 | **LINC02543** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928409 | XR_001741459,XR_ | **LOC101928409** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928414 | NR_120335 | **LOC101928414** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.498 |
| 101928415 | XR_001755805,XR_ | **LOC101928415** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.103 |
| 101928416 | NR_120467 | **LOC101928416** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928417 | NR_110937 | **LOC101928417** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928418 | NR_104605 | **MYOCD-AS1** | MYOCD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928419 | XR_241794 | **LOC101928419** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928420 | NR_120468,NR_12( | **LINC01490** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928421 | XR_001745168,XR_ | **LOC101928421** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 101928424 | NR_135053 | **LOC101928424** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928429 | NR_134635 | **LOC101928429** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.724 |
| 101928433 | NR_136240 | **ATXN1-AS1** | ATXN1 antisense RNA 1 | lncRNA | 6 | 4 | 7 | 5 | 0.828 |
| 101928435 | NR_109962 | **LINC01700** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928436 | NR_168319,NR_16( | **LOC101928436** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928437 | NR_110399 | **LOC101928437** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928438 | NR_109802 | **LOC101928438** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.093 |
| 101928440 | NR_120550 | **FBXO3-DT** | FBXO3 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928441 | NR_120471 | **LOC101928441** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928442 | NR_120336 | **LINC01491** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928443 | NR_120529,NR_12( | **LINC02753** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928445 | NR_110560 | **RUFY1-AS1** | RUFY1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928446 | NR_110938 | **LOC101928446** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928447 | XR_001753018,XR_ | **LOC101928447** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928448 | NR_161255 | **C5orf67** | chromosome 5 putative c | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928449 | NR_110089 | **LINC02426** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928450 | XR_936227 | **LOC101928450** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928451 | XR_927951,XR_927 | **LOC101928451** | uncharacterized LOC101 | lncRNA | 11 | 8 | 12 | 9 | 0.764 |
| 101928453 | NR_120638 | **LOC101928453** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928455 | NR_110570 | **LINC01412** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928460 | NR_110758 | **LINC01756** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928461 | NR_125858 | **MAP3K5-AS1** | MAP3K5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928462 | XR_001751018,XR_ | **LOC101928462** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 101928463 | XR_241983 | **LOC101928463** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928464 | NR_134927,NR_13( | **ZNF433-AS1** | ZNF433 and ZNF878 ant | lncRNA | 39 | 38 | 40 | 39 | 0.975 |
| 101928465 | XR_244126,XR_430 | **LOC101928465** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.217 |
| 101928466 | XR_242200,XR_428 | **LOC101928466** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928469 | NR_110400,NR_11( | **MIR325HG** | MIR325 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928470 | NR_121573,NR_12( | **TMEM246-AS1** | TMEM246 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928471 | NR_120472,NR_12( | **SOX5-AS1** | SOX5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928472 | XR_001751536 | **LOC101928472** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928473 | XR_247259,XR_950 | **LOC101928473** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928474 | XR_001752295,XR_ | **LOC101928474** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928475 | NR_135638 | **LOC101928475** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928476 | NR_125954,NR_12( | **LINC01676** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928477 | XR_001748340,XR_ | **LOC101928477** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928478 | NR_146487 | **LINC02269** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928483 | NR_121577 | **NALT1** | NOTCH1 associated lncF | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928484 | NR_110811 | **LINC01363** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928487 | XR_241416,XR_923 | **LOC101928487** | uncharacterized LOC101 | lncRNA | 3 | 4 | 4 | 5 | 1.169 |
| 101928489 | NR_110889 | **LOC101928489** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928491 | NR_110855 | **LOC101928491** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928492 | NR_126023 | **OR2A1-AS1** | OR2A1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928495 | NR_110409 | **LOC101928495** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928496 | NR_121578 | **LINC01492** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928499 | XR_001751545,XR_ | **LOC101928499** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928502 | XR_243488 | **LOC101928502** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928504 | NR_135252 | **LOC101928504** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 101928505 | NR_104668 | **LOC101928505** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928507 | gene-LOC1019285( | **LOC101928507** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928508 | gene-LOC1019285( | **LOC101928508** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928509 | NR_125896 | **LINC02268** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928510 | NR_135064 | **LOC101928510** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928512 | XR_001738276,XR_ | **LOC101928512** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928513 | NR_110573 | **CATIP-AS1** | CATIP antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.554 |
| 101928514 | NR_110837 | **LINC02080** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 101928516 | NR_110856 | **LOC101928516** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928517 | NR_110732 | **LOC101928517** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928519 | NR_110860 | **LOC101928519** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928521 | XR_001741541,XR_ | **PDE6B-AS1** | PDE6B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 101928523 | NR_109803 | **LOC101928523** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928525 | NR_121579 | **LOC101928525** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.082 |
| 101928526 | XR_244868 | **LOC101928526** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928527 | NM_001308421,NM | **PIGBOS1** | PIGB opposite strand 1 | protein_coding | 21 | 16 | 22 | 17 | 0.805 |
| 101928529 | XR_245213,XR_940 | **LOC101928529** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.976 |
| 101928530 | NR_110919 | **LOC101928530** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928532 | XR_241665,XR_925 | **LOC101928532** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928535 | NR_120551,NR_12( | **LOC101928535** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928536 | NR_120553 | **LINC01493** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928537 | NR_110238 | **LINC01494** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928539 | NR_109900 | **LINC02225** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928540 | NR_125859 | **LOC101928540** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928543 | XR_001753836,XR_ | **LOC101928543** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928545 | NR_120511,NR_12( | **SEPTIN7-DT** | SEPTIN7 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.168 |
| 101928548 | XM_005272308 | **LOC101928548** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928550 | NR_121580 | **SMC2-AS1** | SMC2 antisense RNA 1 ( | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 101928551 | NR_125900 | **LOC101928551** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928553 | XR_001739729,XR_ | **LOC101928553** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928554 | XR_242926,XR_931 | **LOC101928554** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928555 | NR_126364 | **LINC01537** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928556 | XR_001752357,XR_ | **LOC101928556** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.096 |
| 101928557 | NR_135193 | **LOC101928557** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928559 | NR_110074 | **LINC01467** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928561 | XR_001748367 | **LOC101928561** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928563 | XR_001748189,XR_ | **LOC101928563** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928565 | NR_125956 | **LOC101928565** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928567 | NR_110839 | **LINC02087** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928569 | NR_104669 | **LINC02101** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928570 | XR_001744205,XR_ | **LOC101928570** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928571 | NR_110733 | **ZNF649-AS1** | ZNF649 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928572 | XR_936243 | **LOC101928572** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928573 | XR_001744019,XR_ | **LOC101928573** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928576 | XR_244329 | **LOC101928576** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928578 | NR_110410 | **RAP2C-AS1** | RAP2C antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 101928580 | NR_120556 | **P4HA3-AS1** | P4HA3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928582 | XR_001752388 | **LOC101928582** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928583 | NR_135555,NR_13( | **SLC7A14-AS1** | SLC7A14 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928589 | XM_005262239 | **LOC101928589** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.019 |
| 101928590 | NR_125901 | **LOC101928590** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928591 | NR_135065 | **LINC02745** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928592 | XM_005265640 | **LOC101928592** | zinc finger protein OZF-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928595 | NR_135192 | **LOC101928595** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.872 |
| 101928596 | NR_135799 | **LOC101928596** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928597 | NR_110091 | **ZNF84-DT** | ZNF84 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928599 | NR_146650 | **LINC02301** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928600 | NR_109904 | **LINC02108** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928601 | NM_001282136,NM | **MEI4** | meiotic double-stranded | protein_coding | 0 | 0 | 1 | 1 | 0.982 |
| 101928602 | NR_134931 | **LINC01775** | long intergenic non-prote | lncRNA | 2 | 0 | 3 | 1 | 0.332 |
| 101928603 | NM_001282492 | **ARMH2** | armadillo like helical dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928604 | NR_110081 | **ZBTB46-AS1** | ZBTB46 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928605 | NR_126022 | **ARHGEF35-AS1** | ARHGEF35 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928607 | NR_109964 | **TRPM2-AS** | TRPM2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928608 | XR_001746695,XR_ | **LOC101928608** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928611 | NR_120337 | **LINC01413** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928612 | NR_135132 | **HSPC324** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928614 | NR_135181 | **LINC02189** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101928616 | NR_046992,NR_12( | **LINC00354** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928617 | NR_135036,NR_13! | **LOC101928617** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928618 | NR_108089 | **LOC101928618** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928622 | NR_125902 | **LOC101928622** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.790 |
| 101928626 | NR_125957 | **LOC101928626** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928627 | NR_110412 | **LOC101928627** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928628 | XR_241147 | **LOC101928628** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928630 | NR_109908 | **SMIM15-AS1** | SMIM15 antisense RNA : | lncRNA | 1 | 1 | 2 | 2 | 1.062 |
| 101928631 | XR_002958392,XR_ | **LOC101928631** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.714 |
| 101928636 | XR_001740674,XR_ | **LOC101928636** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928638 | NR_157392 | **LINC02692** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928646 | NR_109975 | **ARNTL2-AS1** | ARNTL2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928649 | NR_109909 | **CTC-338M12.4** | uncharacterized LOC101 | lncRNA | 5 | 5 | 6 | 6 | 1.006 |
| 101928650 | NR_125958 | **GORAB-AS1** | GORAB antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928651 | NR_109910 | **LOC101928651** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928656 | NR_108092,NR_108 | **LINC01099** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928658 | XR_001741692,XR_ | **LOC101928658** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928659 | NR_135180 | **LOC101928659** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.613 |
| 101928661 | NR_125860 | **LOC101928661** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928663 | NR_110862,NR_11( | **LOC101928663** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928673 | NR_125960 | **PRDX6-AS1** | PRDX6 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.762 |
| 101928674 | NR_110845,NR_11( | **LOC101928674** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928675 | gene-LOC10192867 | **LOC101928675** | . | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 101928677 | NM_001355522,XM_ | **ETDA** | embryonic testis differen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928679 | NR_149139 | **LINC02500** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928682 | NR_104667 | **LOC101928682** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928684 | NR_110819 | **LINC01209** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928685 | gene-NACAP8 | **NACAP8** | . | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 101928687 | NR_120641,NR_12( | **LNCAROD** | lncRNA activating regula | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928688 | XR_001745176 | **LOC101928688** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928689 | NR_109928 | **LINC01424** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.892 |
| 101928692 | XR_244468 | **LOC101928692** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928694 | NR_120338 | **LIPC-AS1** | LIPC antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928696 | NR_121196 | **RABGAP1L-AS1** | RABGAP1L antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928697 | NR_126054 | **LOC101928697** | uncharacterized LOC101 | lncRNA | 6 | 5 | 7 | 6 | 0.959 |
| 101928698 | NR_108094 | **LINC01070** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928700 | NR_110829 | **CNTNAP2-AS1** | CNTNAP2 antisense RN/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928701 | XR_001747380 | **LOC101928701** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928705 | XR_242929,XR_931 | **LOC101928705** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.017 |
| 101928707 | XR_001752114,XR_ | **CD2BP2-DT** | CD2BP2 divergent trans | lncRNA | 3 | 4 | 4 | 5 | 1.319 |
| 101928708 | NR_110939 | **LOC101928708** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928710 | NR_110848,NR_11( | **SCAT1** | S-phase cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928711 | XR_241619 | **LOC101928711** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928715 | gene-TPT1P10 | **TPT1P10** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928716 | XR_242166 | **SUGCT-AS1** | SUGCT antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928718 | NR_125963 | **LOC101928718** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928720 | NR_121581 | **LINC01509** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928721 | XR_001741658,XR_ | **LOC101928721** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928725 | NR_135474 | **LOC101928725** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.131 |
| 101928728 | NR_135804 | **LOC101928728** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.840 |
| 101928730 | NR_120422 | **LOC101928730** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928731 | NR_110092,NR_11( | **LOC101928731** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928733 | XR_242213 | **LOC101928733** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928734 | NR_126473 | **WWC2-AS1** | WWC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928735 | XR_001749059,XR_ | **LOC101928735** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928736 | NR_110940,NR_11( | **MIR762HG** | MIR762 host gene | lncRNA | 4 | 3 | 5 | 4 | 0.852 |
| 101928737 | NR_110943 | **LOC101928737** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928738 | NR_110851 | **LINC01978** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928739 | NR_125401 | **LOC101928739** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928741 | NR_146488 | **LINC02065** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928743 | XR_241992 | **LOC101928743** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928744 | NR_110831 | **LINC01450** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928745 | XR_244333,XR_244 | **LL21NC02-21A1.1** | uncharacterized LL21NC | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928748 | NR_110950 | **LOC101928748** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928751 | NR_125964 | **LINC01657** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928752 | NR_135321 | **LINC01043** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928755 | gene-LOC10192875 | **LOC101928755** | . | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 101928760 | XR_245260 | **LOC101928760** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928762 | XR_001752117,XR_ | **LOC101928762** | uncharacterized LOC101 | lncRNA | 0 | 1 | 1 | 2 | 1.241 |
| 101928764 | NM_001365454,XM_ | **LOC101928764** | coiled-coil domain-contai | protein_coding | 1 | 1 | 2 | 2 | 1.097 |
| 101928765 | NR_151716 | **LINC01807** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928766 | NR_110850 | **LINC01979** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928767 | NR_110155 | **LINC02328** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.752 |
| 101928768 | XR_241720 | **LOC101928768** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928769 | NR_105001 | **LINC02229** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.111 |
| 101928770 | NR_126363 | **LINC01526** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928773 | NR_110832 | **LINC01449** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928775 | NR_109805 | **LOC101928775** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928776 | NR_110951 | **LINC01258** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928778 | NR_110722 | **LINC01741** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928781 | NR_120643,NR_12( | **TMEM26-AS1** | TMEM26 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928782 | NR_110836 | **LOC101928782** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928784 | NR_120339,NR_12( | **RORA-AS1** | RORA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.864 |
| 101928786 | NR_121582 | **LOC101928786** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928788 | gene-ARL4AP5 | **ARL4AP5** | . | pseudogene | 0 | 0 | 1 | 1 | 0.996 |
| 101928790 | NR_110059,NR_11( | **PEX5L-AS2** | PEX5L antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928791 | NR_110121 | **LINC01147** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928794 | NR_111908 | **MAST4-AS1** | MAST4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928795 | NR_110833 | **LINC01448** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928796 | NR_109931 | **LOC101928796** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928797 | NR_109806 | **LOC101928797** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928804 | NR_110737,NR_11( | **LOC101928804** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928807 | NR_134565 | **LOC101928807** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928808 | XR_244519 | **LOC101928808** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928809 | NR_125906 | **SDAD1-AS1** | SDAD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928812 | NR_120557,NR_12( | **LINC02696** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928813 | XR_001748310,XR_ | **LINC02757** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928816 | XR_001739925,XR_ | **LOC101928816** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928817 | XR_245803 | **LOC101928817** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928819 | XR_241808,XR_948 | **LOC101928819** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928820 | NR_134633,NR_13( | **LINC02535** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928823 | NR_120559,NR_12( | **LINC02763** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928824 | XR_001755618,XR_ | **LOC101928824** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.214 |
| 101928832 | XR_001755969 | **LOC101928832** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928833 | XR_244544 | **LOC101928833** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928834 | NR_120646 | **LOC101928834** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928836 | XR_001737884,XR_ | **CAMTA1-AS1** | CAMTA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928837 | NR_120561,NR_12( | **LOC101928837** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928840 | NR_130780 | **PWRN3** | Prader-Willi region non-p | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928841 | NM_001304433,NM | **LOC101928841** | collagen alpha-1(II) chair | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 101928842 | XR_001744239,XR_ | **LOC101928842** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928844 | NR_110740 | **LOC101928844** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928845 | NR_134916 | **LINC01842** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928846 | NR_110725,NR_11( | **HIPK1-AS1** | HIPK1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 101928847 | NR_120563 | **LOC101928847** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 0.996 |
| 101928849 | XR_001746918 | **LOC101928849** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928850 | XR_243165 | **LOC101928850** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928851 | NR_125907 | **LINC02380** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928855 | NR_110852 | **LOC101928855** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928856 | XR_002959659,XR_ | **LOC101928856** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928857 | NR_109911 | **CTD-3080P12.3** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928858 | NR_130779 | **LOC101928858** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928859 | XR_246119,XR_946 | **LOC101928859** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928861 | NR_120513 | **LOC101928861** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928863 | XR_001755997 | **LOC101928863** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928864 | XR_244659 | **LOC101928864** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 101928865 | NR_120564 | **LINC02728** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 101928866 | XR_001738305,XR_ | **LOC101928866** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928868 | XR_001744422 | **LOC101928868** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928869 | NR_120343 | **GABRG3-AS1** | GABRG3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928875 | XR_001748392 | **LOC101928875** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928877 | NR_147059 | **LINC02436** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928879 | XM_017008884 | **LOC101928879** | COMM domain-containin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928880 | NR_110944 | **LINC02182** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928881 | NR_136325 | **LOC101928881** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928882 | NR_109986 | **LOC101928882** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928885 | NR_130778 | **LINC02198** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928886 | NR_110741 | **LINC01864** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928887 | NR_134456 | **LINC02671** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928891 | NR_110537 | **LINC01637** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928893 | XR_244660 | **LOC101928893** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928894 | NR_120565 | **LOC101928894** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928895 | XR_946815,XR_946 | **LINC01786** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.827 |
| 101928896 | NR_120566 | **LOC101928896** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928902 | NR_134307 | **LOC101928902** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928906 | XR_001746472,XR_ | **LOC101928906** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928907 | NR_135690 | **LOC101928907** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 101928909 | NR_110134 | **LOC101928909** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928911 | NR_110869 | **LOC101928911** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928912 | XR_246024,XR_945 | **LOC101928912** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928913 | NR_120647 | **LINC01515** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928917 | NM_001323079 | **HSFX3** | heat shock transcription | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928919 | XR_001748205,XR_ | **LINC02489** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928922 | NR_120428 | **LINC00463** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928923 | XR_001744423 | **LOC101928923** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928924 | NR_134279 | **LOC101928924** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928929 | XR_244774,XR_939 | **LOC101928929** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928931 | NR_110702 | **SEMA3B-AS1** | SEMA3B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928932 | NR_135133 | **LOC101928932** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928933 | XR_001738313,XR_ | **LOC101928933** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 101928936 | NR_110867 | **LOC101928936** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928937 | NR_110095 | **LOC101928937** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928940 | NR_120567 | **LOC101928940** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928941 | NR_131250 | **RHOXF1P1** | Rhox homeobox family n | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101928942 | NR_125908 | **PRKG2-AS1** | PRKG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928943 | NR_120568,NR_12( | **MADD-AS1** | MADD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928944 | NR_120570 | **LINC02720** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928948 | gene-LOC10192894 | **LOC101928948** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928952 | gene-LOC10192895 | **LOC101928952** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928953 | XR_001746139,XR_ | **LOC101928953** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 101928957 | XR_002957618,XR_ | **LOC101928957** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 101928959 | gene-LOC10192895 | **LOC101928959** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928960 | gene-LOC10192896 | **LOC101928960** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101928961 | NR_111911 | **LOC101928961** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928963 | XR_244663 | **LOC101928963** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 1.125 |
| 101928969 | NR_131238 | **RHOXF1-AS1** | RHOXF1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 101928971 | NR_121679 | **LINC01262** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928972 | XR_243169,XR_932 | **LOC101928972** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928973 | NR_125966 | **LINC01732** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928977 | NR_125970 | **LOC101928977** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928978 | NR_125909 | **LOC101928978** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928979 | NR_125967,NR_125 | **LINC01719** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.255 |
| 101928982 | XR_936091,XR_936 | **LOC101928982** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928985 | NR_135066 | **LOC101928985** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928988 | NR_120344 | **LOC101928988** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928989 | NR_120571 | **MIR4300HG** | MIR4300 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928991 | NM_001355573,XM | **CCDC92B** | coiled-coil domain contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101928992 | NR_110043 | **LINC02069** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928994 | NR_120648 | **LOC101928994** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928995 | NR_125969 | **LINC01649** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101928999 | NR_109984 | **IQCF5-AS1** | IQCF5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929000 | gene-LOC10192900 | **LOC101929000** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929002 | NR_135253 | **LINC02287** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929003 | XR_241722 | **LOC101929003** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929004 | XR_942763,XR_942 | **LOC101929004** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 101929006 | NR_134629,NR_134 | **LOC101929006** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929007 | XR_001754040,XR_ | **LOC101929007** | WAS/WASL-interacting p | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929008 | XR_001745191,XR_ | **GTF2IP13** | general transcription fact | transcribed_pseu | 3 | 1 | 4 | 2 | 0.651 |
| 101929010 | NR_110090 | **SIRPG-AS1** | SIRPG antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929011 | NR_135069 | **LINC02702** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929013 | gene-PRR23D3P | **PRR23D3P** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929014 | XR_001746928,XR_ | **LOC101929014** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929018 | XR_001741050 | **LOC101929018** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 101929019 | NR_125910 | **LINC02270** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929021 | XR_428765,XR_946 | **LOC101929021** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929022 | XR_242268 | **LOC101929022** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929023 | NR_125972,NR_125 | **LINC01762** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929025 | NR_120649 | **LINC01516** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929026 | gene-ZACNP1 | **ZACNP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929027 | NR_146469 | **LINC02387** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929028 | XR_001745817 | **LOC101929028** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929031 | XR_243387 | **LOC101929031** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929034 | NR_104602 | **LINC02116** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929043 | XR_001748506,XR_ | **DLG2-AS2** | DLG2 antisense RNA 2, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929048 | XR_001741385,XR_ | **LOC101929048** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929050 | XR_002956559,XR_ | **LOC101929050** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929052 | NR_108067,NR_108 | **LINC00836** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929053 | gene-LOC10192905 | **LOC101929053** | . | pseudogene | 0 | 0 | 1 | 1 | 1.210 |
| 101929054 | NR_135307 | **LOC101929054** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.789 |
| 101929056 | XR_241724 | **IRX4-AS1** | IRX4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929057 | NR_111915 | **LOC101929057** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.912 |
| 101929058 | NR_126333 | **LOC101929058** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929059 | NR_110744 | **ZIM2-AS1** | ZIM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929064 | NR_110879 | **MAPK10-AS1** | MAPK10 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929066 | NR_125429,NR_125 | **LOC101929066** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.236 |
| 101929069 | NR_146489 | **LINC01633** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929071 | NR_121681 | **LINC01182** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929072 | NR_148222,NR_148 | **MICA-AS1** | MICA antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.110 |
| 101929073 | NR_120650 | **LOC101929073** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929074 | NR_126366,NR_126 | **PIK3CD-AS2** | PIK3CD antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929076 | NR_120345 | **LOC101929076** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929077 | XR_941877,XR_941 | **LINC02334** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929080 | NR_110127 | **LINC02292** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929081 | NR_109912 | **CTD-2194D22.4** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929082 | NR_105010 | **LINC01333** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929083 | NR_104154 | **CASC6** | cancer susceptibility 6 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929084 | NR_110103 | **LINC02401** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929086 | NR_108090 | **LINC01447** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929087 | gene-LOC10192908 | **LOC101929087** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929088 | XR_001745218,XR_ | **LOC101929088** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929089 | NR_120572,NR_120 | **LOC101929089** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.186 |
| 101929093 | NR_110793 | **LINC01350** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929095 | NR_125911 | **C1QTNF7-AS1** | C1QTNF7 antisense RN/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929098 | XR_430278 | **LOC101929098** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929099 | NR_110786 | **LOC101929099** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.172 |
| 101929104 | gene-LOC1019291( | **LOC101929104** | . | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 101929105 | gene-LOC1019291( | **LOC101929105** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929106 | NR_110052 | **LOC101929106** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929107 | XR_245813 | **LOC101929107** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 101929109 | NR_134278 | **LOC101929109** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929110 | NR_110108,NR_11( | **CASC18** | cancer susceptibility 18 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929111 | NR_144465 | **LINC01149** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.957 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101929114 | XR_242272 | **LOC101929114** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929116 | NR_121584 | **LOC101929116** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929117 | NR_134472 | **LOC101929117** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929120 | NR_110716,NR_11( | **LINC01351** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929121 | NR_126377 | **LINC00437** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929122 | NR_121668 | **LOC101929122** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929123 | NR_125919 | **LINC02493** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929124 | NR_110427 | **LOC101929124** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929125 | NR_109859 | **LINC01730** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929127 | NR_121188,NR_12 | **PGM5P3-AS1** | PGM5P3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929128 | NR_125431 | **LOC101929128** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929129 | XR_001751593 | **LOC101929129** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929130 | NR_135551 | **LOC101929130** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929134 | NR_134662,NR_13 | **PIGY-DT** | PIGY divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929135 | gene-LOC10192913 | **LOC101929135** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929140 | NR_120423 | **LOC101929140** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.681 |
| 101929141 | NR_164151 | **LOC101929141** | coiled-coil domain-contai | transcribed_pseu | 1 | 1 | 2 | 2 | 0.750 |
| 101929142 | XR_001744432,XR_ | **LOC101929142** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929144 | NR_110745 | **LINC01858** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929145 | NR_132103,NR_13 | **PPP3CB-AS1** | PPP3CB antisense RNA | lncRNA | 4 | 6 | 5 | 7 | 1.367 |
| 101929147 | NR_125974,NR_12 | **WARS2-AS1** | WARS2 antisense RNA 1 | lncRNA | 18 | 19 | 19 | 20 | 1.046 |
| 101929148 | NR_110413 | **LOC101929148** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929151 | NR_135691 | **LINC02204** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 101929152 | NR_126419 | **P3H2-AS1** | P3H2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929153 | NR_104619 | **LINC02114** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929154 | NR_105012,NR_10 | **LOC101929154** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929157 | gene-PGM5P3 | **PGM5P3** | phosphoglucomutase 5 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929159 | NR_135550 | **DENND6A-DT** | DENND6A divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 101929160 | XR_001738350 | **LOC101929160** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.837 |
| 101929161 | NR_134641 | **LOC101929161** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929162 | NR_120474 | **LOC101929162** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 101929163 | NR_136244,NR_13( | **TSBP1-AS1** | TSBP1 and BTNL2 antise | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929164 | NR_110746 | **LINC01859** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929165 | NR_134476 | **LOC101929165** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929172 | NR_104677 | **LOC101929172** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929173 | NR_120346 | **THSD4-AS2** | THSD4 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929174 | XR_001748318,XR_ | **LOC101929174** | uncharacterized LOC101 | lncRNA | 1 | 2 | 2 | 3 | 1.310 |
| 101929176 | NR_109915 | **CTD-2297D10.2** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929178 | XR_254374 | **LOC101929178** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929179 | XR_001746589,XR_ | **LINC01388** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.177 |
| 101929180 | XR_242744 | **LINC02673** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929181 | NR_104624 | **LINC01647** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929184 | NR_125789 | **LINC01031** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929185 | XR_001752716 | **LOC101929185** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 101929188 | NR_134628 | **LOC101929188** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929191 | NR_120604 | **LINCR-0001** | uncharacterized LINCR-( | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929194 | NR_125920 | **LNCPRESS2** | lncRNA p53 regulated ar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929196 | NR_120348,NR_12( | **THSD4-AS1** | THSD4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929198 | NR_046726,NR_12 | **ATP13A4-AS1** | ATP13A4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929199 | NR_125921 | **LINC02261** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929200 | XR_001742582,XR_ | **LOC101929200** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 0.991 |
| 101929201 | XR_002956216 | **LOC101929201** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929202 | NR_121652 | **MKX-AS1** | MKX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929203 | gene-RNFT1P3 | **RNFT1P3** | ring finger protein, transr | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929204 | XR_002957426,XR_ | **LOC101929204** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929207 | NR_109860 | **LINC01729** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929208 | NR_133004 | **LOC101929208** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929210 | NR_125922 | **LOC101929210** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929212 | NR_104064,NR_10 | **SMIM2-AS1** | SMIM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.447 |
| 101929215 | NR_109930 | **THBS4-AS1** | THBS4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929216 | XR_246204,XR_428 | **LOC101929216** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929217 | NR_105004 | **LOC101929217** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929218 | NR_120652 | **LINC01517** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929221 | NR_120352,NR_12( | **INSYN1-AS1** | INSYN1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929222 | NR_104190 | **DISC1FP1** | DISC1 fusion partner 1 | lncRNA | 0 | 0 | 1 | 1 | 1.117 |
| 101929224 | NR_110787 | **DDX59-AS1** | DDX59 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929225 | NR_110101 | **MCM8-AS1** | MCM8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929227 | NR_132790 | **LOC101929227** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929229 | NR_125432 | **LOC101929229** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.574 |
| 101929230 | XR_001739325,XR_ | **LOC101929230** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929231 | NR_110240 | **MMADHC-DT** | MMADHC divergent trans | lncRNA | 1 | 0 | 2 | 1 | 0.709 |
| 101929234 | NR_110304 | **LOC101929234** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929237 | NR_125433 | **LOC101929237** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929238 | NR_110820 | **CFAP20DC-AS1** | CFAP20DC antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929239 | NR_110871,NR_11( | **PACRG-AS2** | PACRG antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929240 | XR_243770 | **LOC101929240** | U5 small nuclear ribonuc | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101929241 | NR_110165,NR_11( | **LINC02325** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.750 |
| 101929243 | NR_134625,NR_13 | **LOC101929243** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 0.729 |
| 101929244 | NR_109953 | **CASC20** | cancer susceptibility 20 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929247 | NR_121585 | **LINC01231** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929248 | XR_002956689,XR_ | **LOC101929248** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929251 | XR_001739332 | **LOC101929251** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929254 | gene-LRRC37A12P | **LRRC37A12P** | leucine rich repeat conta | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929255 | XR_938052 | **LOC101929255** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929256 | XR_001747404,XR_ | **LOC101929256** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929258 | XR_001745838,XR_ | **LOC101929258** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929259 | NR_120424 | **LOC101929259** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929260 | NR_110241 | **LINC01920** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929261 | NR_134277 | **LINC02123** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929265 | NR_110609 | **LINC01428** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929268 | NR_105002 | **LOC101929268** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929269 | NR_134308 | **LOC101929269** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929270 | XR_242681,XR_428 | **LOC101929270** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 101929272 | XR_001739342,XR_ | **DTNB-AS1** | DTNB antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929278 | XR_001740806,XR_ | **LOC101929278** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929279 | NR_120653 | **LOC101929279** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929280 | XR_243327 | **LOC101929280** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 101929282 | NR_110244,NR_11( | **LINC02612** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929284 | NR_109932 | **LINC02199** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929285 | XR_001744099,XR_ | **LOC101929285** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.749 |
| 101929286 | NR_126365 | **KCNMA1-AS3** | KCNMA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929288 | NR_135005 | **LINC01751** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929289 | XR_246494 | **LOC101929289** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.080 |
| 101929290 | XR_001745811,XR_ | **LOC101929290** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929291 | XR_001746953,XR_ | **LOC101929291** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929293 | gene-PTGES3P2 | **PTGES3P2** | prostaglandin E synthas | pseudogene | 7 | 5 | 8 | 6 | 0.728 |
| 101929294 | NR_125808 | **LOC101929294** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.113 |
| 101929295 | NR_110303 | **LOC101929295** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929297 | NR_125862 | **LOC101929297** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929298 | XR_427389 | **LOC101929298** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929302 | NR_121586 | **RFX3-AS1** | RFX3 antisense RNA 1 | lncRNA | 5 | 4 | 6 | 5 | 0.861 |
| 101929305 | XR_001738364,XR_ | **LOC101929305** | uncharacterized LOC101 | lncRNA | 4 | 3 | 5 | 4 | 0.880 |
| 101929307 | XR_925771,XR_925 | **LOC101929307** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929308 | gene-LOC1019293( | **LOC101929308** | . | pseudogene | 0 | 0 | 1 | 1 | 1.001 |
| 101929309 | XR_001744104,XR_ | **LOC101929309** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.152 |
| 101929310 | NR_120654 | **KCNMA1-AS2** | KCNMA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929312 | NR_110610 | **LINC01706** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929314 | XR_001746954,XR_ | **LOC101929314** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929315 | NR_125809 | **LOC101929315** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929316 | XR_245234,XR_940 | **PRICKLE2-DT** | PRICKLE2 divergent trar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929319 | NR_110248 | **LOC101929319** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929320 | XR_924257 | **LOC101929320** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929321 | XR_002956252 | **LOC101929321** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929322 | NR_157837,NR_157 | **LOC101929322** | integrator complex subur | transcribed_pseu | 0 | 0 | 1 | 1 | 0.982 |
| 101929326 | XR_241171 | **LOC101929326** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929328 | NR_120655 | **KCNMA1-AS1** | KCNMA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 101929329 | NR_109957 | **LAMP5-AS1** | LAMP5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929331 | NR_121587 | **LOC101929331** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929335 | NR_110150,NR_11( | **ADAMTS9-AS1** | ADAMTS9 antisense RN/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929337 | NR_125402 | **LINC02037** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929338 | NR_109935 | **SEMA5A-AS1** | SEMA5A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929340 | NR_120577,NR_12( | **LOC101929340** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929341 | NR_134310 | **LOC101929341** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929343 | XR_241172 | **LOC101929343** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929344 | NR_120426 | **LINC01198** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 101929347 | XR_001747511 | **LOC101929347** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929348 | XR_244242 | **LOC101929348** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929350 | NR_134584 | **LINC01665** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929351 | NR_121597,NR_12: | **CDC37L1-DT** | CDC37L1 divergent trans | lncRNA | 1 | 4 | 2 | 5 | 2.182 |
| 101929352 | NR_134478 | **LINC02664** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929353 | NR_125924 | **LOC101929353** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929355 | XM_017020910 | **CFAP97D2** | CFAP97 domain containi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929356 | XR_001739736,XR_ | **LOC101929356** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.647 |
| 101929357 | NR_110821 | **HP09053** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.759 |
| 101929359 | XR_001742497 | **LOC101929359** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929367 | XR_001738373,XR_ | **LOC101929367** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929371 | NR_109861 | **PARAL1** | PPARG activating RBM1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929372 | NM_001288707 | **LOC101929372** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.182 |
| 101929373 | XR_001747433,XR_ | **LOC101929373** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929374 | NR_110538 | **LINC01659** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929378 | NR_110249,NR_11( | **LINC01876** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929380 | NR_105018 | **LOC101929380** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929384 | NR_120475 | **SLC6A12-AS1** | SLC6A12 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929386 | XR_244977,XR_939 | **LOC101929386** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929387 | NR_110945,NR_11( | **LMF1-AS1** | LMF1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929388 | XR_001738376,XR_ | **LOC101929388** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929390 | NR_110251 | **LINC01247** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929395 | NR_110611 | **LINC01752** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929397 | NR_120656,NR_12( | **LINC01518** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929398 | XR_001745919 | **LOC101929398** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929400 | XM_024447360,XM_ | **LOC101929400** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929402 | NR_126027 | **EXTL3-AS1** | EXTL3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929406 | NR_110790 | **LINC01648** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929407 | NR_121599,NR_12: | **PTPRD-AS1** | PTPRD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929408 | XR_001751802,XR_ | **LOC101929408** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929411 | NR_135549 | **LOC101929411** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929412 | NR_104606 | **LINC02212** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929413 | NR_109866 | **LOC101929413** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929415 | NR_125813 | **LOC101929415** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929418 | XR_001739368,XR_ | **LOC101929418** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.894 |
| 101929420 | NR_110870 | **LOC101929420** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929422 | NR_146490 | **LINC02285** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929423 | NR_104031,NR_109 | **MEF2C-AS1** | MEF2C antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.887 |
| 101929425 | NR_144472 | **BTBD9-AS1** | BTBD9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929427 | NR_120532,NR_12( | **LOC101929427** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929428 | NR_110696 | **PTPRD-AS2** | PTPRD antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929431 | NR_120660 | **LOC101929431** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.019 |
| 101929432 | XR_001748950,XR_ | **LOC101929432** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929437 | NR_132102 | **PRRX2-AS1** | PRRX2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929439 | NR_120360 | **LOC101929439** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929440 | XR_243332 | **LOC101929440** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929441 | NR_123739 | **ERLNC1** | estrogen receptor respor | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929444 | XR_001737631 | **LOC101929444** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929445 | NR_134479 | **LINC02623** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929446 | XR_242531 | **LOC101929446** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929447 | NR_160030 | **IATPR** | ITGB1 adjacent tumor pr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929448 | NR_125925 | **LINC02428** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929450 | NR_125814,NR_12: | **LINC02099** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929452 | NR_110252 | **LOC101929452** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929454 | NR_109944 | **LINC02149** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929457 | NR_135692 | **LOC101929457** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929459 | XR_922459,XR_922 | **TMCC2-AS1** | TMCC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929460 | NR_134622 | **LOC101929460** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929464 | NR_125978 | **PHC2-AS1** | PHC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.429 |
| 101929467 | NR_125775 | **LURAP1L-AS1** | LURAP1L antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929468 | NR_125926 | **CXXC4-AS1** | CXXC4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929469 | NM_001365174,NM_ | **TEX52** | testis expressed 52 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929470 | NR_125817 | **LOC101929470** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929471 | gene-HINT2P1 | **HINT2P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929472 | NR_109945 | **CTD-2350J17.1** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929473 | NR_120578 | **LOC101929473** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929475 | XR_001747416,XR_ | **ITGB1-DT** | ITGB1 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 101929476 | NR_146491 | **LINC01698** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929478 | NR_120361,NR_12( | **LINGO1-AS2** | LINGO1 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929479 | NR_158179,NR_16( | **LOC101929479** | golgin A2 pseudogene | transcribed_pseu | 16 | 15 | 17 | 16 | 0.935 |
| 101929480 | XR_243334 | **LOC101929480** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929484 | NR_132622,NR_13: | **LINC01615** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929485 | XR_002959629 | **LOC101929485** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929486 | NR_109868 | **LINC01722** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929488 | NR_125818 | **LOC101929488** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929492 | XR_001745865,XR_ | **LOC101929492** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929494 | XR_429962,XR_429 | **LOC101929494** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929495 | NR_120601 | **LINC01339** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929497 | NR_120580 | **LINC02712** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929498 | XR_001747425 | **LOC101929498** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929504 | NR_125863 | **LINC02544** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.574 |
| 101929505 | NR_104625 | **LINC02150** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.082 |
| 101929506 | XR_001747517 | **LOC101929506** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.009 |
| 101929507 | XR_001746620,XR_ | **LOC101929507** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929510 | XR_241261 | **LOC101929510** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929511 | NR_135639 | **LINC01970** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.025 |
| 101929512 | NR_110593 | **LOC101929512** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929516 | NR_125979 | **PABPC4-AS1** | PABPC4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929517 | NR_120581 | **ETS1-AS1** | ETS1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929520 | NR_104061 | **LINC00993** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929523 | NR_134621 | **LOC101929523** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 0.915 |
| 101929524 | NR_109946 | **LOC101929524** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929526 | NR_109955 | **DTD1-AS1** | DTD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929528 | NR_105005 | **LOC101929528** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929529 | NR_125927 | **GSTCD-AS1** | GSTCD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929530 | gene-FANCD2P2 | **FANCD2P2** | FANCD2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.069 |
| 101929531 | XR_001739273,XR_ | **LINC01871** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 101929532 | NR_110255 | **LOC101929532** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929534 | XR_001740472,XR_ | **LOC101929534** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929535 | XR_926786 | **LOC101929535** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929536 | NR_135805 | **LOC101929536** | uncharacterized LOC101 | lncRNA | 1 | 0 | 2 | 1 | 0.773 |
| 101929538 | NR_135072 | **LOC101929538** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929539 | NR_110540 | **LINC01422** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929540 | XR_001747431,XR_ | **LOC101929540** | uncharacterized LOC101 | lncRNA | 1 | 2 | 2 | 3 | 1.385 |
| 101929541 | NR_125982,NR_12: | **LINC02608** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.913 |
| 101929542 | XR_244985 | **LOC101929542** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.092 |
| 101929544 | NR_134273,NR_13- | **LINC02217** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929547 | XR_244249,XR_937 | **LOC101929547** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929548 | NR_121601 | **FOCAD-AS1** | FOCAD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929549 | NR_110112 | **GAU1** | GALNT8 antisense upstr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929550 | NR_125819 | **LOC101929550** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929551 | NR_110256 | **LOC101929551** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929552 | NR_136400 | **LOC101929552** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929554 | gene-LOC10192955 | **LOC101929554** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929555 | NR_110873 | **LOC101929555** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929557 | NR_120582 | **LINC01395** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929559 | NR_110011,NR_11( | **LINC00211** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 101929560 | XR_932523 | **LOC101929560** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929563 | NR_121602 | **LOC101929563** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929565 | NR_125985 | **LINC01740** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929566 | XR_243337,XR_933 | **LOC101929566** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.014 |
| 101929567 | NR_110257 | **LINC01814** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929570 | NR_110258 | **KCNH7-AS1** | KCNH7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.772 |
| 101929572 | NR_110504 | **LOC101929572** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929574 | NR_120661 | **LOC101929574** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929575 | XR_244251 | **CFAP61-AS1** | CFAP61 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929577 | NR_125928 | **LOC101929577** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 101929578 | NR_164152 | **LOC101929578** | transcription factor CP2-l | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101929579 | NR_126332 | **LOC101929579** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929580 | NR_135738 | **GTF2IP23** | general transcription fact | transcribed_pseu | 2 | 2 | 3 | 3 | 1.094 |
| 101929582 | NR_121604 | **LINC01241** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929583 | NR_136299 | **LOC101929583** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101929584 | NR_120476,NR_12( | **LINC02443** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929586 | NR_120363 | **LOC101929586** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929589 | gene-RPL7P61 | **RPL7P61** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929590 | NR_120666 | **NRG3-AS1** | NRG3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929591 | NR_109956 | **KIZ-AS1** | KIZ antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929592 | NR_125986 | **ST3GAL3-AS1** | ST3GAL3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929594 | XR_001755627,XR_ | **LOC101929594** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929595 | NR_125929 | **CYP2U1-AS1** | CYP2U1 and SGMS2 an | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 101929596 | NR_110259 | **LINC02613** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929598 | gene-LOC10192959 | **LOC101929598** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929599 | NR_157804 | **LOC101929599** | putative POM121-like pro | transcribed_pseu | 0 | 0 | 1 | 1 | 1.001 |
| 101929601 | XM_005251121 | **LOC101929601** | putative exonuclease GC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929602 | NR_121605 | **IFT74-AS1** | IFT74 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929607 | NR_110039 | **LINC01990** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929608 | NR_109878 | **LINC01726** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929609 | XR_246317 | **LOC101929609** | uncharacterized LOC101 | lncRNA | 2 | 3 | 3 | 4 | 1.296 |
| 101929613 | NR_110947,NR_11( | **LOC101929613** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929614 | XR_001744488,XR_ | **LOC101929614** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.891 |
| 101929617 | XR_241749,XR_241 | **LOC101929617** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929620 | NR_135134 | **LINC01243** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929621 | NR_134679 | **LOC101929621** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929622 | NR_125820 | **LOC101929622** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929623 | NR_110028,NR_11( | **LINC01215** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929624 | NR_120667,NR_12( | **LINC01519** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929625 | NR_109880 | **LINC01727** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929626 | NR_125987 | **LOC101929626** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929627 | XM_005251122 | **LOC101929627** | putative exonuclease GC | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929628 | XR_001745926,XR_ | **LINC02842** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929631 | NR_110794 | **LINC01653** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929633 | NR_110574 | **LOC101929633** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929634 | NR_135293 | **LINC02280** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929637 | NR_126159 | **NTM-AS1** | NTM antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929638 | XR_001755475,XR_ | **LOC101929638** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929639 | NR_108108,NR_10( | **B4GALT1-AS1** | B4GALT1 antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.860 |
| 101929643 | XR_001739277,XR_ | **LOC101929643** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.971 |
| 101929645 | NR_109948 | **LOC101929645** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929646 | NR_120669 | **LINC02647** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929650 | XR_243528 | **LOC101929650** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929651 | NR_121680 | **LINC01398** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929653 | NR_110140 | **LOC101929653** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929655 | NR_120365 | **TMC3-AS1** | TMC3 antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 1.022 |
| 101929657 | NR_110306 | **LOC101929657** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929660 | NR_130777 | **LINC02109** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929662 | NR_120670 | **LOC101929662** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929663 | NR_110615 | **LINC01427** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929664 | NR_110541 | **HORMAD2-AS1** | HORMAD2 and MTMR3 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929667 | XR_244991,XR_427 | **LOC101929667** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929669 | gene-GEMIN2P1 | **GEMIN2P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929679 | NR_120366 | **LINC02883** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.660 |
| 101929680 | NR_110260 | **SCN1A-AS1** | SCN1A and SCN9A antis | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929681 | NR_104628 | **LINC02064** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929684 | NR_120671 | **LINC01520** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929685 | NR_109883 | **LNCNEF** | lncRNA neighboring enh | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929688 | NR_109755 | **LINC01251** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.069 |
| 101929690 | NR_120367 | **LINC01583** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929691 | XR_001739282,XR_ | **LOC101929691** | uncharacterized LOC101 | lncRNA | 1 | 2 | 2 | 3 | 1.334 |
| 101929692 | XM_024446615 | **LOC101929692** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 0.972 |
| 101929693 | NR_110861 | **RARA-AS1** | RARA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929694 | NR_110017 | **LINC02042** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929696 | NR_105052,NR_10( | **PSD2-AS1** | PSD2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929697 | NR_134939,NR_13 | **LINC01983** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.269 |
| 101929698 | NR_110619 | **LOC101929698** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929700 | XR_002959380,XR_ | **LINC01794** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929701 | NR_120368 | **LINC01584** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929703 | XR_002958367 | **LOC101929703** | uncharacterized LOC101 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.237 |
| 101929704 | XR_241754 | **LOC101929704** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929705 | NR_125864,NR_12( | **LOC101929705** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929707 | XR_001754538,XR_ | **LOC101929707** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929709 | NR_125822 | **LOC101929709** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 1.043 |
| 101929710 | NR_130776 | **LOC101929710** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929715 | NR_110597 | **ODC1-DT** | ODC1 divergent transcrip | lncRNA | 3 | 4 | 4 | 5 | 1.383 |
| 101929716 | NR_104137 | **ARMC2-AS1** | ARMC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929717 | NR_110823 | **LINC02044** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929718 | NR_110139 | **LOC101929718** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929719 | NR_130738 | **LOC101929719** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929721 | NR_125988 | **AGBL4-AS1** | AGBL4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929723 | NR_110262,NR_11( | **LINC01914** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929726 | NM_001315494,NM | **MYMX** | myomixer, myoblast fusic | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929727 | XR_001747535,XR_ | **LOC101929727** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929730 | NR_110797 | **LINC01352** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929732 | XR_001752059,XR_ | **LOC101929732** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929733 | NR_110575 | **LINC01954** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929736 | NR_108104 | **LINC01372** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.196 |
| 101929738 | XM_017029167 | **LOC101929738** | putative POM121-like pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929741 | NR_125930 | **METTL14-DT** | METTL14 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 0.833 |
| 101929743 | NR_120369,NR_12( | **LINC01586** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929745 | NR_134272 | **LINC02119** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929746 | NR_110623 | **ZNF341-AS1** | ZNF341 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929748 | NR_136301 | **LOC101929748** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.104 |
| 101929750 | XR_001738477,XR_ | **LOC101929750** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929752 | XR_001739286,XR_ | **LOC101929752** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929753 | NR_110576 | **MYO3B-AS1** | MYO3B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929754 | NR_121661 | **ZBTB20-AS5** | ZBTB20 antisense RNA 5 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929756 | XR_926958 | **LOC101929756** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929759 | XR_929025 | **LOC101929759** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929760 | NR_110542 | **PIK3IP1-DT** | PIK3IP1 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929762 | NR_125931 | **LOC101929762** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929765 | NR_120371 | **LINC01585** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929767 | NR_110868 | **LOC101929767** | uncharacterized LOC101 | lncRNA | 3 | 3 | 4 | 4 | 1.006 |
| 101929768 | NR_109951 | **OSMR-AS1** | OSMR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929769 | NR_132101 | **LINC01063** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929770 | XR_926854,XR_926 | **LOC101929770** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929771 | NR_125989 | **LINC01655** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929777 | XR_429986 | **LOC101929777** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929780 | NR_104217 | **NBPF25P** | NBPF member 25, pseu | transcribed_pseu | 2 | 2 | 3 | 3 | 0.935 |
| 101929788 | XR_254376 | **LOC101929788** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 101929790 | XR_001737737,XR_ | **LOC101929790** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 101929796 | NR_157049 | **NOTCH2NLR** | notch 2 N-terminal like R | transcribed_pseu | 3 | 3 | 4 | 4 | 1.085 |
| 101929798 | NR_135813 | **LOC101929798** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 101929800 | XR_929882 | **LOC101929800** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 101929805 | XM_011510255,XM_ | **LOC101929805** | neuroblastoma breakpoi | protein_coding | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 101929814 | XR_001738203,XR_ | **LOC101929814** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929815 | gene-LOC10192981 | **LOC101929815** | dopamine receptor D5 ps | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 101929817 | gene-LOC10192981 | **LOC101929817** | . | pseudogene | 1 | 1 | 2 | 2 | 1.283 |
| 101929823 | XR_001752717,XR_ | **LOC101929823** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.014 |
| 101929826 | XR_001737746,XR_ | **LINC01632** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929828 | XR_942193,XR_942 | **LOC101929828** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 101929846 | XR_428755,XR_946 | **LOC101929846** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929861 | XR_922753 | **LOC101929861** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929863 | XR_430321,XR_936 | **LOC101929863** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929866 | XR_001754620,XR_ | **LINC02597** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929878 | gene-LOC10192987 | **LOC101929878** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929882 | NR_135558 | **LOC101929882** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929894 | XR_001752367,XR_ | **LOC101929894** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.139 |
| 101929897 | NR_125823 | **LOC101929897** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929898 | XR_925675 | **LOC101929898** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929901 | NR_135817 | **FOXO6-AS1** | FOXO6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929902 | XR_001738524 | **LOC101929902** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929908 | XR_923242 | **LOC101929908** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929918 | XR_002957245,XR_ | **LOC101929918** | uncharacterized LOC101 | lncRNA | 5 | 6 | 6 | 7 | 1.049 |
| 101929923 | gene-LOC10192992 | **LOC101929923** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929926 | NM_001322244,NR | **TEX51** | testis expressed 51 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929935 | NR_135111 | **LOC101929935** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929937 | XM_017028182 | **LOC101929937** | uncharacterized LOC101 | protein_coding | 0 | 0 | 1 | 1 | 1.121 |
| 101929943 | gene-LOC10192994 | **LOC101929943** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101929947 | NR_157573 | **ITGA6-AS1** | ITGA6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929950 | NR_164156 | **LOC101929950** | puromycin-sensitive amir | transcribed_pseu | 5 | 3 | 6 | 4 | 0.770 |
| 101929951 | XR_930805 | **MACORIS** | macrophage enriched lin | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929959 | XM_011518094,XM_ | **LOC101929959** | ribosome biogenesis pro | protein_coding | 4 | 3 | 5 | 4 | 0.775 |
| 101929963 | XR_923598 | **LOC101929963** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929964 | XR_427768 | **LOC101929964** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929967 | XR_945096,XR_945 | **LOC101929967** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929974 | XR_001749407,XR_ | **LOC101929974** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929976 | XR_427200 | **LOC101929976** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929977 | XR_427677,XR_427 | **LOC101929977** | uncharacterized LOC101 | lncRNA | 2 | 1 | 3 | 2 | 0.983 |
| 101929983 | NM_001300891 | **PRAMEF27** | PRAME family member 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929989 | XM_011522782,XM_ | **LITAFD** | LITAF domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 101929996 | XR_939540 | **LOC101929996** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101929998 | NR_136254 | **LOC101929998** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930010 | NR_125866 | **DST-AS1** | DST antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930023 | XR_001749257,XR_ | **LINC02391** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930026 | XR_001746515,XR_ | **LOC101930026** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 101930028 | XR_002959827,XR_ | **LOC101930028** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930041 | gene-LOC10193004 | **LOC101930041** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101930048 | XR_001746605,XR_ | **LOC101930048** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930053 | XR_001746602,XR_ | **LOC101930053** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930071 | NR_126041 | **LOC101930071** | uncharacterized LOC101 | lncRNA | 3 | 2 | 4 | 3 | 0.759 |
| 101930085 | NR_136255 | **LOC101930085** | uncharacterized LOC101 | lncRNA | 2 | 2 | 3 | 3 | 0.962 |
| 101930090 | gene-LOC10193009 | **LOC101930090** | contactin associated prot | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101930091 | XR_001751585,XR_ | **LOC101930091** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930094 | NR_135518 | **LOC101930094** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930100 | XR_001754944,XR_ | **LOC101930100** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930105 | NR_146580,NR_146 | **FAM239A** | family with sequence sim | transcribed_pseu | 1 | 1 | 2 | 2 | 0.986 |
| 101930109 | XR_927288 | **LOC101930109** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930112 | XR_933895 | **LOC101930112** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 0.967 |
| 101930114 | NR_134509,NR_134 | **HSD11B1-AS1** | HSD11B1 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.122 |
| 101930129 | XR_001748086,XR_ | **LOC101930129** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 101930149 | XR_001745813,XR_ | **LOC101930149** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930150 | gene-NF1P9 | **NF1P9** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 101930162 | NR_146865 | **LINC02417** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930164 | XR_001749085,XR_ | **LINC02555** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930275 | XR_428319,XR_949 | **LOC101930275** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930276 | XR_427752,XR_427 | **LOC101930276** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930294 | NR_146492,NR_146 | **LINC02317** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930307 | XM_017015415,XM_ | **LOC101930307** | uncharacterized LOC101 | protein_coding | 1 | 2 | 2 | 3 | 1.230 |
| 101930370 | NR_134241,NR_134 | **LOC101930370** | uncharacterized LOC101 | lncRNA | 1 | 1 | 2 | 2 | 1.118 |
| 101930420 | XM_017007609 | **LOC101930420** | DNA primase large subu | protein_coding | 1 | 1 | 2 | 2 | 1.046 |
| 101930421 | NR_147612 | **LOC101930421** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930434 | XM_017022809 | **LOC101930434** | putative golgin subfamily | protein_coding | 2 | 2 | 3 | 3 | 1.013 |
| 101930452 | NR_120479 | **LINC02367** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 101930496 | XR_430037 | **LOC101930496** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 101930531 | gene-FRG1GP | **FRG1GP** | FSHD region gene 1 fam | pseudogene | 0 | 0 | 1 | 1 | 1.213 |
| 101930593 | XR_001754014,XR_ | **LOC101930593** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930665 | XR_429862,XR_934 | **LOC101930665** | uncharacterized LOC101 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930746 | NR_104056 | **LINC00945** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930747 | NR_104057 | **LINC00380** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930748 | NR_104058 | **LINC00367** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101930749 | NR_104059 | **LINC00397** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101937451 | NR_104062 | **LINC01030** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101954204 | NR_104063 | **LINC00644** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101954264 | NR_104073 | **RNVU1-4** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.121 |
| 101954266 | NR_104075 | **RNVU1-14** | RNA, variant U1 small nu | snRNA | 4 | 2 | 5 | 3 | 0.692 |
| 101954267 | NR_104076 | **RNVU1-15** | RNA, variant U1 small nu | snRNA | 2 | 2 | 3 | 3 | 0.901 |
| 101954269 | NR_104078 | **RNVU1-17** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101954271 | NR_104080 | **RNU6-9** | RNA, U6 small nuclear 9 | snRNA | 9 | 6 | 10 | 7 | 0.731 |
| 101954272 | NR_104081 | **RNVU1-3** | RNA, variant U1 small nu | snRNA | 0 | 1 | 1 | 2 | 1.359 |
| 101954273 | NR_104082 | **RNVU1-1** | RNA, variant U1 small nu | snRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101954275 | NR_104084 | **RNU6-7** | RNA, U6 small nuclear 7 | snRNA | 1 | 0 | 2 | 1 | 0.720 |
| 101954276 | NR_104085 | **RNVU1-6** | RNA, variant U1 small nu | snRNA | 0 | 1 | 1 | 2 | 1.609 |
| 101954277 | NR_104086 | **RNVU1-19** | RNA, variant U1 small nu | snRNA | 0 | 2 | 1 | 3 | 2.694 |
| 101954278 | NR_104088 | **RNU6-8** | RNA, U6 small nuclear 8 | snRNA | 1 | 1 | 2 | 2 | 1.213 |
| 101978719 | NR_104091 | **LINC00970** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 101978785 | NR_109832 | **PCAT14** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102030688 | gene-LOC10203068 | **LOC102030688** | testis expressed 28 pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102031319 | NR_104163 | **LOC102031319** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102060282 | NR_109831 | **RASSF1-AS1** | RASSF1 antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.426 |
| 102060414 | NR_104191 | **C2-AS1** | C2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102157400 | NR_138041 | **LINC00384** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102157401 | NR_109828 | **PCBP2-OT1** | PCBP2 overlapping trans | lncRNA | 1 | 0 | 2 | 1 | 0.750 |
| 102157402 | NM_001015891,NM | **AK6** | adenylate kinase 6 | protein_coding | 93 | 92 | 94 | 93 | 0.984 |
| 102191832 | NR_104273 | **FBXW7-AS1** | FBXW7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102216268 | NR_104332,NR_104 | **CISTR** | chondrogenesis-associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102216342 | NR_108096,NR_108 | **LINC01108** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102238594 | NR_108100 | **SPACA6P-AS** | SPACA6P antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102288414 | NM_001286086,NR_ | **C11orf98** | chromosome 11 open rea | protein_coding | 224 | 232 | 225 | 233 | 1.037 |
| 102388891 | gene-MCRIP2P1 | **MCRIP2P1** | MAPK regulated corepre | pseudogene | 0 | 0 | 1 | 1 | 1.110 |
| 102443352 | gene-LOC10244335 | **LOC102443352** | ubiquitin fold modifier 1 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102464817 | NR_106714,rna-MIR | **MIR5787** | microRNA 5787 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464823 | NR_106716,rna-MIR | **MIR6068** | microRNA 6068 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464824 | NR_106717,rna-MIR | **MIR6069** | microRNA 6069 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464825 | NR_106718,rna-MIR | **MIR6070** | microRNA 6070 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464826 | NR_106721,rna-MIR | **MIR6073** | microRNA 6073 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464827 | NR_106722,rna-MIR | **MIR6074** | microRNA 6074 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464828 | NR_106724,rna-MIR | **MIR6076** | hsa-miR-6076 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102464829 | NR_106726,rna-MIR | **MIR6078** | microRNA 6078 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464830 | NR_106727,rna-MIR | **MIR6079** | microRNA 6079 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464831 | NR_106728,rna-MIR | **MIR6080** | microRNA 6080 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464832 | NR_106731,rna-MIR | **MIR6083** | microRNA 6083 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464833 | NR_106732,rna-MIR | **MIR6084** | microRNA 6084 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 102464834 | NR_106733,rna-MIR | **MIR6085** | microRNA 6085 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102464836 | NR_106736,rna-MIR | **MIR6088** | hsa-miR-6088 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102464837 | NR_106737,NR_106 | **MIR6089** | microRNA 6089 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465133 | NR_106740,rna-MIR | **MIR6125** | microRNA 6125 | miRNA | 0 | 0 | 1 | 1 | 1.002 |
| 102465134 | NR_106741,rna-MIR | **MIR6126** | microRNA 6126 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465135 | NR_106743,rna-MIR | **MIR6128** | microRNA 6128 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465136 | NR_106744,rna-MIR | **MIR378J** | microRNA 378j | miRNA | 1 | 0 | 2 | 1 | 0.524 |
| 102465137 | NR_106745,rna-MIR | **MIR6129** | microRNA 6129 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102465138 | NR_106747,rna-MIF | **MIR6131** | microRNA 6131 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465139 | NR_106749,rna-MIF | **MIR6133** | microRNA 6133 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465140 | NR_106750,rna-MIF | **MIR6134** | microRNA 6134 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465141 | NR_106751,rna-MIF | **MIR6165** | microRNA 6165 | miRNA | 0 | 0 | 1 | 1 | 1.428 |
| 102465246 | NR_106752,rna-MIF | **MIR6499** | microRNA 6499 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465247 | NR_106753,rna-MIF | **MIR548AY** | microRNA 548ay | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465248 | NR_106756,rna-MIF | **MIR6501** | microRNA 6501 | miRNA | 0 | 0 | 1 | 1 | 0.989 |
| 102465249 | NR_106757,rna-MIF | **MIR6502** | microRNA 6502 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465250 | NR_106758,rna-MIF | **MIR6503** | microRNA 6503 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465251 | NR_106759,rna-MIF | **MIR6504** | microRNA 6504 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465252 | NR_106761,rna-MIF | **MIR6506** | microRNA 6506 | miRNA | 0 | 0 | 1 | 1 | 0.996 |
| 102465253 | NR_106762,rna-MIF | **MIR6507** | microRNA 6507 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465254 | NR_106764,rna-MIF | **MIR6509** | microRNA 6509 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465255 | NR_106767,rna-MIF | **MIR6512** | microRNA 6512 | miRNA | 0 | 1 | 1 | 2 | 1.568 |
| 102465256 | NR_106768,rna-MIF | **MIR6513** | microRNA 6513 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465257 | NR_106769,rna-MIF | **MIR6514** | hsa-miR-6514-3p | . | 0 | 0 | 1 | 1 | 1.151 |
| 102465427 | NR_106772,rna-MIF | **MIR6715B** | microRNA 6715b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465428 | NR_106774,rna-MIF | **MIR6717** | microRNA 6717 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465429 | NR_106775,rna-MIF | **MIR6511B1** | microRNA 6511b-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465430 | NR_106776,rna-MIF | **MIR6718** | microRNA 6718 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465431 | NR_106780,rna-MIF | **MIR6722** | microRNA 6722 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465433 | NR_106782,rna-MIF | **MIR6724-1** | microRNA 6724-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465434 | NR_106784,rna-MIF | **MIR6726** | hsa-miR-6726-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465435 | NR_106785,rna-MIF | **MIR6727** | hsa-miR-6727-3p | . | 0 | 3 | 1 | 4 | 3.649 |
| 102465436 | NR_106786,rna-MIF | **MIR6728** | hsa-miR-6728-3p | . | 2 | 1 | 3 | 2 | 0.725 |
| 102465437 | NR_106789,rna-MIF | **MIR6731** | hsa-miR-6731-3p | . | 1 | 0 | 2 | 1 | 0.472 |
| 102465438 | NR_106790,rna-MIF | **MIR6732** | microRNA 6732 | miRNA | 6 | 3 | 7 | 4 | 0.621 |
| 102465439 | NR_106791,rna-MIF | **MIR6733** | hsa-miR-6733-3p | . | 1 | 2 | 2 | 3 | 1.467 |
| 102465440 | NR_106793,rna-MIF | **MIR6735** | microRNA 6735 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465441 | NR_106795,rna-MIF | **MIR6737** | hsa-miR-6737-3p | . | 0 | 0 | 1 | 1 | 0.670 |
| 102465442 | NR_106796,rna-MIF | **MIR6738** | hsa-miR-6738-3p | . | 0 | 1 | 1 | 2 | 1.867 |
| 102465443 | NR_106798,rna-MIF | **MIR6740** | microRNA 6740 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465444 | NR_106800,rna-MIF | **MIR6742** | hsa-miR-6742-3p | . | 1 | 1 | 2 | 2 | 0.775 |
| 102465445 | NR_106801,rna-MIF | **MIR6743** | microRNA 6743 | miRNA | 1 | 0 | 2 | 1 | 0.486 |
| 102465446 | NR_106804,rna-MIF | **MIR6746** | hsa-miR-6746-3p | . | 0 | 1 | 1 | 2 | 2.269 |
| 102465447 | NR_106805,rna-MIF | **MIR6747** | hsa-miR-6747-3p | . | 1 | 0 | 2 | 1 | 0.647 |
| 102465448 | NR_106806,rna-MIF | **MIR6748** | microRNA 6748 | miRNA | 6 | 6 | 7 | 7 | 0.946 |
| 102465449 | NR_106809,rna-MIF | **MIR6751** | hsa-miR-6751-3p | . | 1 | 0 | 2 | 1 | 0.625 |
| 102465450 | NR_106810,rna-MIF | **MIR6752** | microRNA 6752 | miRNA | 1 | 1 | 2 | 2 | 0.891 |
| 102465451 | NR_106811,rna-MIF | **MIR6753** | hsa-miR-6753-5p | . | 1 | 0 | 2 | 1 | 0.625 |
| 102465452 | NR_106813,rna-MIF | **MIR6755** | microRNA 6755 | miRNA | 0 | 1 | 1 | 2 | 1.804 |
| 102465453 | NR_106814,rna-MIF | **MIR6756** | hsa-miR-6756-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465454 | NR_106816,rna-MIF | **MIR6758** | microRNA 6758 | miRNA | 2 | 1 | 3 | 2 | 0.752 |
| 102465455 | NR_106818,rna-MIF | **MIR6760** | microRNA 6760 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465456 | NR_106819,rna-MIF | **MIR6761** | microRNA 6761 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465457 | NR_106820,rna-MIF | **MIR6762** | microRNA 6762 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465458 | NR_106823,rna-MIF | **MIR6765** | hsa-miR-6765-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465459 | NR_106825,rna-MIF | **MIR6767** | microRNA 6767 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465460 | NR_106826,rna-MIF | **MIR6768** | microRNA 6768 | miRNA | 1 | 1 | 2 | 2 | 0.672 |
| 102465461 | NR_106828,rna-MIF | **MIR6770-1** | microRNA 6770-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465462 | NR_106829,rna-MIF | **MIR6771** | microRNA 6771 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465463 | NR_106830,rna-MIF | **MIR6772** | microRNA 6772 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465464 | NR_106833,rna-MIF | **MIR6775** | hsa-miR-6775-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465465 | NR_106834,rna-MIF | **MIR6776** | hsa-miR-6776-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465466 | NR_106835,rna-MIF | **MIR6777** | hsa-miR-6777-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465467 | NR_106837,rna-MIF | **MIR6779** | microRNA 6779 | miRNA | 1 | 1 | 2 | 2 | 1.017 |
| 102465468 | NR_106839,rna-MIF | **MIR6781** | hsa-miR-6781-3p | . | 0 | 1 | 1 | 2 | 1.286 |
| 102465469 | NR_106840,rna-MIF | **MIR6782** | microRNA 6782 | miRNA | 0 | 0 | 1 | 1 | 1.066 |
| 102465470 | NR_106842,rna-MIF | **MIR6784** | hsa-miR-6784-3p | . | 0 | 0 | 1 | 1 | 0.876 |
| 102465471 | NR_106844,rna-MIF | **MIR6786** | microRNA 6786 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465472 | NR_106845,rna-MIF | **MIR6787** | microRNA 6787 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465473 | NR_106848,rna-MIF | **MIR6790** | microRNA 6790 | miRNA | 0 | 0 | 1 | 1 | 0.678 |
| 102465474 | NR_106849,rna-MIF | **MIR6791** | hsa-miR-6791-3p | . | 1 | 1 | 2 | 2 | 1.003 |
| 102465475 | NR_106850,rna-MIF | **MIR6792** | hsa-miR-6792-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465476 | NR_106853,rna-MIF | **MIR6795** | hsa-miR-6795-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465477 | NR_106854,rna-MIF | **MIR6796** | microRNA 6796 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465478 | NR_106855,rna-MIF | **MIR6797** | microRNA 6797 | miRNA | 2 | 2 | 3 | 3 | 0.906 |
| 102465479 | NR_106857,rna-MIF | **MIR6799** | microRNA 6799 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465480 | NR_106858,rna-MIF | **MIR6800** | microRNA 6800 | miRNA | 0 | 0 | 1 | 1 | 1.296 |
| 102465481 | NR_106860,rna-MIF | **MIR6802** | hsa-miR-6802-3p | . | 4 | 2 | 5 | 3 | 0.612 |
| 102465482 | NR_106862,rna-MIF | **MIR6804** | hsa-miR-6804-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465483 | NR_106863,rna-MIF | **MIR6805** | microRNA 6805 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465484 | NR_106864,rna-MIF | **MIR6806** | microRNA 6806 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465485 | NR_106867,rna-MIF | **MIR6809** | hsa-miR-6809-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465486 | NR_106869,rna-MIF | **MIR6811** | microRNA 6811 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465487 | NR_106870,rna-MIF | **MIR6812** | microRNA 6812 | miRNA | 0 | 1 | 1 | 2 | 1.996 |
| 102465488 | NR_106872,rna-MIF | **MIR6814** | hsa-miR-6814-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465489 | NR_106873,rna-MIF | **MIR6815** | microRNA 6815 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465490 | NR_106874,rna-MIF | **MIR6816** | microRNA 6816 | miRNA | 1 | 0 | 2 | 1 | 0.663 |
| 102465491 | NR_106877,rna-MIF | **MIR6819** | hsa-miR-6819-3p | . | 2 | 0 | 3 | 1 | 0.357 |
| 102465492 | NR_106878,rna-MIF | **MIR6820** | microRNA 6820 | miRNA | 0 | 1 | 1 | 2 | 1.760 |
| 102465493 | NR_106879,rna-MIF | **MIR6821** | hsa-miR-6821-5p | . | 8 | 14 | 9 | 15 | 1.569 |
| 102465494 | NR_106881,rna-MIF | **MIR6823** | hsa-miR-6823-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465495 | NR_106882,rna-MIF | **MIR6824** | hsa-miR-6824-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465496 | NR_106884,rna-MIF | **MIR6826** | microRNA 6826 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465497 | NR_106886,rna-MIF | **MIR6828** | microRNA 6828 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465498 | NR_106888,rna-MIF | **MIR6830** | hsa-miR-6830-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465499 | NR_106889,rna-MIF | **MIR6831** | hsa-miR-6831-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465500 | NR_106891,rna-MIF | **MIR6833** | microRNA 6833 | miRNA | 1 | 1 | 2 | 2 | 0.906 |
| 102465501 | NR_106892,rna-MIF | **MIR6834** | hsa-miR-6834-5p | . | 5 | 3 | 6 | 4 | 0.771 |
| 102465502 | NR_106893,rna-MIF | **MIR6835** | microRNA 6835 | miRNA | 3 | 2 | 4 | 3 | 0.701 |
| 102465503 | NR_106895,rna-MIF | **MIR6836** | hsa-miR-6836-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465504 | NR_106897,rna-MIF | **MIR6838** | hsa-miR-6838-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465505 | NR_106898,rna-MIF | **MIR6839** | microRNA 6839 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465506 | NR_106900,rna-MIF | **MIR6841** | hsa-miR-6841-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465507 | NR_106901,rna-MIF | **MIR6842** | microRNA 6842 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465508 | NR_106902,rna-MIF | **MIR6843** | hsa-miR-6843-3p | . | 0 | 0 | 1 | 1 | 1.195 |
| 102465509 | NR_106905,rna-MIF | **MIR6846** | hsa-miR-6846-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465510 | NR_106906,rna-MIF | **MIR6847** | microRNA 6847 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465511 | NR_106907,rna-MIF | **MIR6848** | microRNA 6848 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465512 | NR_106910,rna-MIF | **MIR6851** | hsa-miR-6851-3p | . | 1 | 1 | 2 | 2 | 1.023 |
| 102465513 | NR_106911,rna-MIF | **MIR6852** | microRNA 6852 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465514 | NR_106913,rna-MIF | **MIR6854** | hsa-miR-6854-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465515 | NR_106915,rna-MIF | **MIR6856** | microRNA 6856 | miRNA | 0 | 0 | 1 | 1 | 0.797 |
| 102465516 | NR_106916,rna-MIF | **MIR6857** | hsa-miR-6857-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465517 | NR_106917,rna-MIF | **MIR6858** | hsa-miR-6858-5p | . | 1 | 0 | 2 | 1 | 0.601 |
| 102465518 | NR_106920,rna-MIF | **MIR6860** | microRNA 6860 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465519 | NR_106921,rna-MIF | **MIR6861** | microRNA 6861 | miRNA | 1 | 0 | 2 | 1 | 0.508 |
| 102465520 | NR_106922,rna-MIF | **MIR6862-1** | microRNA 6862-1 | miRNA | 0 | 0 | 1 | 1 | 1.073 |
| 102465521 | NR_106924,rna-MIF | **MIR6864** | hsa-miR-6864-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465522 | NR_106925,rna-MIF | **MIR6865** | microRNA 6865 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465523 | NR_106927,rna-MIF | **MIR6867** | microRNA 6867 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465524 | NR_106929,rna-MIF | **MIR6869** | microRNA 6869 | miRNA | 9 | 8 | 10 | 9 | 0.917 |
| 102465525 | NR_106930,rna-MIF | **MIR6870** | hsa-miR-6870-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465526 | NR_106932,rna-MIF | **MIR6872** | microRNA 6872 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465527 | NR_106936,rna-MIF | **MIR6876** | microRNA 6876 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465528 | NR_106937,rna-MIF | **MIR6877** | microRNA 6877 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465529 | NR_106938,rna-MIF | **MIR6878** | microRNA 6878 | miRNA | 1 | 1 | 2 | 2 | 0.739 |
| 102465530 | NR_106941,rna-MIF | **MIR6881** | microRNA 6881 | miRNA | 0 | 0 | 1 | 1 | 0.837 |
| 102465531 | NR_106942,rna-MIF | **MIR6882** | hsa-miR-6882-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465532 | NR_106943,rna-MIF | **MIR6883** | hsa-miR-6883-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465533 | NR_106945,rna-MIF | **MIR6885** | hsa-miR-6885-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465534 | NR_106946,rna-MIF | **MIR6886** | microRNA 6886 | miRNA | 0 | 0 | 1 | 1 | 1.300 |
| 102465535 | NR_106948,rna-MIF | **MIR6888** | microRNA 6888 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465536 | NR_106950,rna-MIF | **MIR6890** | hsa-miR-6890-3p | . | 2 | 0 | 3 | 1 | 0.302 |
| 102465537 | NR_106951,rna-MIF | **MIR6891** | microRNA 6891 | miRNA | 1 | 1 | 2 | 2 | 1.089 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102465538 | NR_106952,rna-MIF | **MIR6892** | hsa-miR-6892-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465539 | NR_106955,rna-MIF | **MIR6895** | hsa-miR-6895-3p | . | 1 | 1 | 2 | 2 | 1.159 |
| 102465665 | NR_106957,rna-MIF | **MIR7107** | microRNA 7107 | miRNA | 0 | 0 | 1 | 1 | 0.809 |
| 102465666 | NR_106959,rna-MIF | **MIR7109** | microRNA 7109 | miRNA | 1 | 0 | 2 | 1 | 0.787 |
| 102465667 | NR_106960,rna-MIF | **MIR7110** | microRNA 7110 | miRNA | 1 | 1 | 2 | 2 | 1.015 |
| 102465668 | NR_106961,rna-MIF | **MIR7111** | microRNA 7111 | miRNA | 4 | 4 | 5 | 5 | 0.991 |
| 102465669 | NR_106963,rna-MIF | **MIR7113** | microRNA 7113 | miRNA | 3 | 3 | 4 | 4 | 0.968 |
| 102465683 | NR_106970,rna-MIF | **MIR6511A3** | microRNA 6511a-3 | miRNA | 0 | 0 | 1 | 1 | 0.830 |
| 102465684 | NR_106971,rna-MIF | **MIR6511A4** | microRNA 6511a-4 | miRNA | 0 | 0 | 1 | 1 | 0.836 |
| 102465688 | NR_106972,rna-MIF | **MIR7150** | microRNA 7150 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465689 | NR_106974,rna-MIF | **MIR7152** | hsa-miR-7152-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465690 | NR_106975,rna-MIF | **MIR7153** | hsa-miR-7153-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465691 | NR_106976,rna-MIF | **MIR7154** | hsa-miR-7154-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465692 | NR_106979,rna-MIF | **MIR7157** | hsa-miR-7157-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465693 | NR_106980,rna-MIF | **MIR7158** | hsa-miR-7158-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465694 | NR_106981,rna-MIF | **MIR7161** | hsa-miR-7161-5p | . | 0 | 0 | 1 | 1 | 1.008 |
| 102465695 | NR_106983,rna-MIF | **MIR7160** | hsa-miR-7160-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465696 | NR_106984,rna-MIF | **MIR486-2** | hsa-miR-486-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465800 | NR_106989,rna-MIF | **MIR7702** | microRNA 7702 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465801 | NR_106990,rna-MIF | **MIR7703** | hsa-miR-7703 | . | 2 | 2 | 3 | 3 | 0.965 |
| 102465802 | NR_106991,rna-MIF | **MIR7704** | hsa-miR-7704 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465803 | NR_106993,rna-MIF | **MIR7706** | microRNA 7706 | miRNA | 0 | 0 | 1 | 1 | 1.002 |
| 102465832 | NR_106994,rna-MIF | **MIR7843** | microRNA 7843 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465833 | NR_106995,rna-MIF | **MIR4433B** | microRNA 4433b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465834 | NR_106998,rna-MIF | **MIR7844** | microRNA 7844 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465835 | NR_106999,rna-MIF | **MIR7845** | microRNA 7845 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465836 | NR_107000,rna-MIF | **MIR7846** | microRNA 7846 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465837 | NR_107003,rna-MIF | **MIR7849** | microRNA 7849 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465838 | NR_107004,rna-MIF | **MIR7850** | microRNA 7850 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465839 | NR_107006,rna-MIF | **MIR7852** | microRNA 7852 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465840 | NR_107008,rna-MIF | **MIR7854** | microRNA 7854 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465841 | NR_107009,rna-MIF | **MIR7855** | microRNA 7855 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465842 | NR_107010,rna-MIF | **MIR7856** | microRNA 7856 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465854 | NR_107011,rna-MIF | **MIR548BA** | hsa-miR-548ba | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465855 | NR_107013,rna-MIF | **MIR7973-2** | microRNA 7973-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465856 | NR_107014,rna-MIF | **MIR7974** | hsa-miR-7974 | . | 0 | 1 | 1 | 2 | 1.784 |
| 102465857 | NR_107016,rna-MIF | **MIR7976** | microRNA 7976 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465858 | NR_107017,rna-MIF | **MIR7977** | hsa-miR-7977 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465859 | NR_107018,rna-MIF | **MIR7978** | microRNA 7978 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465860 | NR_107021,rna-MIF | **MIR8054** | microRNA 8054 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465861 | NR_107022,rna-MIF | **MIR8055** | microRNA 8055 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465862 | NR_107023,rna-MIF | **MIR8056** | microRNA 8056 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465863 | NR_107025,rna-MIF | **MIR8058** | microRNA 8058 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465864 | NR_107027,rna-MIF | **MIR8060** | microRNA 8060 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465865 | NR_107029,rna-MIF | **MIR8062** | microRNA 8062 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465866 | NR_107031,rna-MIF | **MIR8064** | microRNA 8064 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465867 | NR_107032,rna-MIF | **MIR8065** | microRNA 8065 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465868 | NR_107033,rna-MIF | **MIR8066** | microRNA 8066 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465869 | NR_107034,rna-MIF | **MIR8067** | microRNA 8067 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465870 | NR_107037,rna-MIF | **MIR8070** | microRNA 8070 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465871 | NR_107038,rna-MIF | **MIR8071-1** | microRNA 8071-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465872 | NR_107040,rna-MIF | **MIR8073** | microRNA 8073 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465873 | NR_107041,rna-MIF | **MIR8074** | microRNA 8074 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465874 | NR_107042,rna-MIF | **MIR8075** | microRNA 8075 | miRNA | 5 | 5 | 6 | 6 | 0.914 |
| 102465875 | NR_107044,rna-MIF | **MIR8077** | microRNA 8077 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465876 | NR_107046,rna-MIF | **MIR8079** | microRNA 8079 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465877 | NR_107047,rna-MIF | **MIR8080** | microRNA 8080 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465878 | NR_107049,rna-MIF | **MIR8082** | microRNA 8082 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465879 | NR_107052,rna-MIF | **MIR8085** | microRNA 8085 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465880 | NR_107053,rna-MIF | **MIR8086** | microRNA 8086 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465881 | NR_107054,rna-MIF | **MIR8087** | microRNA 8087 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465882 | NR_107056,rna-MIF | **MIR8089** | microRNA 8089 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465906 | NR_107057,rna-MIF | **MIR7112** | hsa-miR-7112-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465907 | NR_107058,rna-MIF | **MIR6862-2** | microRNA 6862-2 | miRNA | 0 | 0 | 1 | 1 | 1.050 |
| 102465908 | NR_107060,rna-MIF | **MIR6770-2** | microRNA 6770-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465909 | NR_107062,rna-MIF | **MIR6859-2** | hsa-miR-6859-3p | . | 2 | 3 | 3 | 4 | 1.661 |
| 102465910 | NR_107063,rna-MIF | **MIR6859-3** | microRNA 6859-3 | miRNA | 1 | 3 | 2 | 4 | 2.078 |
| 102465944 | NR_106720,rna-MIF | **MIR6072** | microRNA 6072 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465974 | NR_106777,rna-MIF | **MIR6719** | microRNA 6719 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465975 | NR_106821,rna-MIF | **MIR6763** | microRNA 6763 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465976 | NR_106865,rna-MIF | **MIR6807** | hsa-miR-6807-5p | . | 4 | 2 | 5 | 3 | 0.602 |
| 102465977 | NR_106887,rna-MIF | **MIR6829** | hsa-miR-6829-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102465978 | NR_106909,rna-MIF | **MIR6850** | microRNA 6850 | miRNA | 12 | 14 | 13 | 15 | 1.102 |
| 102465985 | NR_106965,rna-MIF | **MIR6511B2** | microRNA 6511b-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102465993 | NR_107001,rna-MIF | **MIR7847** | microRNA 7847 | miRNA | 0 | 0 | 1 | 1 | 1.409 |
| 102465995 | NR_107048,rna-MIF | **MIR8081** | microRNA 8081 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466081 | NR_106713,rna-MIF | **MIR5739** | microRNA 5739 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466103 | NR_106723,rna-MIF | **MIR6075** | microRNA 6075 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466104 | NR_106738,rna-MIF | **MIR6090** | microRNA 6090 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466162 | NR_106755,rna-MIF | **MIR548AZ** | microRNA 548az | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466189 | NR_106771,rna-MIF | **MIR6715A** | microRNA 6715a | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466190 | NR_106779,rna-MIF | **MIR6721** | microRNA 6721 | miRNA | 2 | 0 | 3 | 1 | 0.452 |
| 102466191 | NR_106794,rna-MIF | **MIR6736** | hsa-miR-6736-3p | . | 0 | 0 | 1 | 1 | 0.741 |
| 102466192 | NR_106808,rna-MIF | **MIR6750** | hsa-miR-6750-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466193 | NR_106815,rna-MIF | **MIR6757** | microRNA 6757 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466194 | NR_106831,rna-MIF | **MIR6773** | hsa-miR-6773-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466195 | NR_106838,rna-MIF | **MIR6780A** | hsa-miR-6780a-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466196 | NR_106852,rna-MIF | **MIR6794** | microRNA 6794 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466197 | NR_106868,rna-MIF | **MIR6810** | microRNA 6810 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466198 | NR_106875,rna-MIF | **MIR6817** | microRNA 6817 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466199 | NR_106883,rna-MIF | **MIR6825** | microRNA 6825 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466200 | NR_106903,rna-MIF | **MIR6844** | hsa-miR-6844 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466201 | NR_106912,rna-MIF | **MIR6853** | microRNA 6853 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466202 | NR_106919,rna-MIF | **MIR6769B** | microRNA 6769b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466203 | NR_106934,rna-MIF | **MIR6874** | hsa-miR-6874-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466204 | NR_106940,rna-MIF | **MIR6880** | hsa-miR-6880-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466205 | NR_106947,rna-MIF | **MIR6887** | microRNA 6887 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466222 | NR_106956,rna-MIF | **MIR7106** | hsa-miR-7106-3p | . | 0 | 1 | 1 | 2 | 1.728 |
| 102466223 | NR_106964,rna-MIF | **MIR7114** | hsa-miR-7114-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466225 | NR_106967,rna-MIF | **MIR6077** | microRNA 6077 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466227 | NR_106985,rna-MIF | **MIR7162** | hsa-miR-7162-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466235 | NR_106986,rna-MIF | **MIR7515** | microRNA 7515 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466247 | NR_106996,rna-MIF | **MIR1273H** | microRNA 1273h | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466250 | NR_107012,rna-MIF | **MIR7973-1** | hsa-miR-7973 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466251 | NR_107028,rna-MIF | **MIR8061** | microRNA 8061 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466252 | NR_107036,rna-MIF | **MIR8069-1** | microRNA 8069-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466253 | NR_107043,rna-MIF | **MIR8076** | microRNA 8076 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466259 | NR_107061,rna-MIF | **MIR6770-3** | hsa-miR-6770-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466268 | NR_106766,rna-MIF | **MIR6511A1** | microRNA 6511a-1 | miRNA | 0 | 0 | 1 | 1 | 0.840 |
| 102466270 | NR_106799,rna-MIF | **MIR6741** | hsa-miR-6741-3p | . | 1 | 2 | 2 | 3 | 1.769 |
| 102466271 | NR_106953,rna-MIF | **MIR6893** | hsa-miR-6893-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466515 | NR_106715,rna-MIF | **MIR1199** | microRNA 1199 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466516 | NR_106719,rna-MIF | **MIR6071** | microRNA 6071 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466518 | NR_106729,rna-MIF | **MIR6081** | microRNA 6081 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466519 | NR_106734,rna-MIF | **MIR6086** | microRNA 6086 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466615 | NR_106742,rna-MIF | **MIR6127** | microRNA 6127 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466616 | NR_106748,rna-MIF | **MIR6132** | microRNA 6132 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466656 | NR_106754,rna-MIF | **MIR6500** | microRNA 6500 | miRNA | 0 | 0 | 1 | 1 | 1.253 |
| 102466657 | NR_106760,rna-MIF | **MIR6505** | microRNA 6505 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466658 | NR_106765,rna-MIF | **MIR6510** | microRNA 6510 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466659 | NR_106770,rna-MIF | **MIR6515** | microRNA 6515 | miRNA | 1 | 1 | 2 | 2 | 1.379 |
| 102466719 | NR_106773,rna-MIF | **MIR6716** | microRNA 6716 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466720 | NR_106778,rna-MIF | **MIR6720** | microRNA 6720 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466721 | NR_106783,rna-MIF | **MIR892C** | microRNA 892c | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466722 | NR_106788,rna-MIF | **MIR6730** | microRNA 6730 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466723 | NR_106792,rna-MIF | **MIR6734** | hsa-miR-6734-3p | . | 1 | 0 | 2 | 1 | 0.544 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102466724 | NR_106797,rna-MIF | **MIR6739** | microRNA 6739 | miRNA | 0 | 1 | 1 | 2 | 1.178 |
| 102466725 | NR_106802,rna-MIF | **MIR6744** | microRNA 6744 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466726 | NR_106803,rna-MIF | **MIR6745** | microRNA 6745 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466727 | NR_106807,rna-MIF | **MIR6749** | hsa-miR-6749-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466728 | NR_106812,rna-MIF | **MIR6754** | microRNA 6754 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466729 | NR_106817,rna-MIF | **MIR6759** | hsa-miR-6759-3p | . | 0 | 0 | 1 | 1 | 1.008 |
| 102466730 | NR_106822,rna-MIF | **MIR6764** | microRNA 6764 | miRNA | 3 | 2 | 4 | 3 | 0.786 |
| 102466731 | NR_106827,rna-MIF | **MIR6769A** | microRNA 6769a | miRNA | 0 | 2 | 1 | 3 | 3.277 |
| 102466732 | NR_106832,rna-MIF | **MIR6774** | microRNA 6774 | miRNA | 1 | 0 | 2 | 1 | 0.577 |
| 102466733 | NR_106836,rna-MIF | **MIR6778** | hsa-miR-6778-3p | . | 1 | 0 | 2 | 1 | 0.629 |
| 102466734 | NR_106841,rna-MIF | **MIR6783** | hsa-miR-6783-3p | . | 1 | 4 | 2 | 5 | 2.168 |
| 102466735 | NR_106846,rna-MIF | **MIR6788** | hsa-miR-6788-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466736 | NR_106847,rna-MIF | **MIR6789** | hsa-miR-6789-3p | . | 5 | 6 | 6 | 7 | 1.067 |
| 102466737 | NR_106851,rna-MIF | **MIR6793** | microRNA 6793 | miRNA | 0 | 0 | 1 | 1 | 1.438 |
| 102466738 | NR_106856,rna-MIF | **MIR6798** | microRNA 6798 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466739 | NR_106861,rna-MIF | **MIR6803** | hsa-miR-6803-3p | . | 0 | 0 | 1 | 1 | 1.122 |
| 102466740 | NR_106866,rna-MIF | **MIR6808** | hsa-miR-6808-3p | . | 3 | 0 | 4 | 1 | 0.270 |
| 102466741 | NR_106871,rna-MIF | **MIR6813** | hsa-miR-6813-3p | . | 1 | 2 | 2 | 3 | 1.832 |
| 102466742 | NR_106876,rna-MIF | **MIR6818** | microRNA 6818 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466743 | NR_106880,rna-MIF | **MIR6822** | microRNA 6822 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466744 | NR_106885,rna-MIF | **MIR6827** | hsa-miR-6827-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466745 | NR_106890,rna-MIF | **MIR6832** | microRNA 6832 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466746 | NR_106894,rna-MIF | **MIR6780B** | microRNA 6780b | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466747 | NR_106899,rna-MIF | **MIR6840** | microRNA 6840 | miRNA | 6 | 8 | 7 | 9 | 1.156 |
| 102466748 | NR_106904,rna-MIF | **MIR6845** | hsa-miR-6845-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466749 | NR_106908,rna-MIF | **MIR6849** | hsa-miR-6849-3p | . | 1 | 0 | 2 | 1 | 0.585 |
| 102466750 | NR_106914,rna-MIF | **MIR6855** | microRNA 6855 | miRNA | 0 | 1 | 1 | 2 | 1.155 |
| 102466751 | NR_106918,rna-MIF | **MIR6859-1** | hsa-miR-6859-3p | . | 3 | 3 | 4 | 4 | 1.002 |
| 102466752 | NR_106923,rna-MIF | **MIR6863** | microRNA 6863 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466753 | NR_106928,rna-MIF | **MIR6868** | hsa-miR-6868-3p | . | 0 | 0 | 1 | 1 | 0.850 |
| 102466754 | NR_106933,rna-MIF | **MIR6873** | hsa-miR-6873-3p | . | 1 | 1 | 2 | 2 | 1.031 |
| 102466755 | NR_106935,rna-MIF | **MIR6875** | microRNA 6875 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466756 | NR_106939,rna-MIF | **MIR6879** | microRNA 6879 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466757 | NR_106944,rna-MIF | **MIR6884** | microRNA 6884 | miRNA | 0 | 1 | 1 | 2 | 1.739 |
| 102466758 | NR_106949,rna-MIF | **MIR6889** | hsa-miR-6889-3p | . | 0 | 1 | 1 | 2 | 1.295 |
| 102466759 | NR_106954,rna-MIF | **MIR6894** | hsa-miR-6894-3p | . | 5 | 3 | 6 | 4 | 0.732 |
| 102466806 | NR_106958,rna-MIF | **MIR7108** | hsa-miR-7108-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466812 | NR_106969,rna-MIF | **MIR6511A2** | microRNA 6511a-2 | miRNA | 0 | 0 | 1 | 1 | 0.728 |
| 102466814 | NR_106973,rna-MIF | **MIR7151** | hsa-miR-7151-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466815 | NR_106977,rna-MIF | **MIR7155** | hsa-miR-7155-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466816 | NR_106982,rna-MIF | **MIR7159** | hsa-miR-7159-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466854 | NR_106992,rna-MIF | **MIR7705** | microRNA 7705 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466864 | NR_106997,rna-MIF | **MIR6516** | microRNA 6516 | miRNA | 0 | 0 | 1 | 1 | 0.959 |
| 102466865 | NR_107002,rna-MIF | **MIR7848** | microRNA 7848 | miRNA | 0 | 0 | 1 | 1 | 0.785 |
| 102466866 | NR_107007,rna-MIF | **MIR7853** | microRNA 7853 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466872 | NR_107015,rna-MIF | **MIR7975** | hsa-miR-7975 | . | 0 | 0 | 1 | 1 | 1.000 |
| 102466873 | NR_107019,rna-MIF | **MIR8052** | microRNA 8052 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466874 | NR_107024,rna-MIF | **MIR8057** | microRNA 8057 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466875 | NR_107030,rna-MIF | **MIR8063** | microRNA 8063 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466876 | NR_107035,rna-MIF | **MIR8068** | microRNA 8068 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466877 | NR_107039,rna-MIF | **MIR8072** | microRNA 8072 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 102466878 | NR_107045,rna-MIF | **MIR8078** | microRNA 8078 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466879 | NR_107050,rna-MIF | **MIR8083** | microRNA 8083 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466880 | NR_107055,rna-MIF | **MIR8088** | microRNA 8088 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466889 | NR_107059,rna-MIF | **MIR8071-2** | microRNA 8071-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466906 | NR_106739,rna-MIF | **MIR6124** | microRNA 6124 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466911 | NR_106843,rna-MIF | **MIR6785** | microRNA 6785 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466912 | NR_106931,rna-MIF | **MIR6871** | microRNA 6871 | miRNA | 1 | 0 | 2 | 1 | 0.934 |
| 102466918 | NR_107026,rna-MIF | **MIR8059** | microRNA 8059 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466953 | NR_106730,rna-MIF | **MIR6082** | microRNA 6082 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466967 | NR_106746,rna-MIF | **MIR6130** | microRNA 6130 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466972 | NR_106763,rna-MIF | **MIR6508** | microRNA 6508 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466982 | NR_106787,rna-MIF | **MIR6729** | microRNA 6729 | miRNA | 3 | 2 | 4 | 3 | 0.847 |
| 102466983 | NR_106824,rna-MIF | **MIR6766** | microRNA 6766 | miRNA | 1 | 0 | 2 | 1 | 0.655 |
| 102466984 | NR_106859,rna-MIF | **MIR6801** | microRNA 6801 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466985 | NR_106896,rna-MIF | **MIR6837** | microRNA 6837 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466986 | NR_106926,rna-MIF | **MIR6866** | microRNA 6866 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102466995 | NR_106978,rna-MIF | **MIR7156** | hsa-miR-7156-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 102467003 | NR_107005,rna-MIF | **MIR7851** | microRNA 7851 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467004 | NR_107020,rna-MIF | **MIR8053** | microRNA 8053 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467005 | NR_107051,rna-MIF | **MIR8084** | microRNA 8084 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467073 | NR_104613 | **HRAT5** | heart tissue-associated tı | lncRNA | 1 | 0 | 2 | 1 | 0.623 |
| 102467074 | NR_104617 | **LINC01377** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467075 | NR_104618 | **LINC01017** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467077 | NR_104633 | **LINC00603** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467079 | NR_104655 | **LINC02180** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467080 | NR_104658,NR_10 | **LOC102467080** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467081 | NR_104662 | **LOC102467081** | uncharacterized LOC102 | lncRNA | 4 | 5 | 5 | 6 | 1.037 |
| 102467146 | NR_104663 | **MAFTRR** | MAF transcriptional regu | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467147 | NR_104664 | **LINC01948** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467212 | NR_104670 | **LINC02115** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467213 | NR_104671 | **LINC01950** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467214 | NR_104672 | **LINC02200** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467216 | NR_104673 | **LOC102467216** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467217 | NR_104674 | **LOC102467217** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467222 | NR_130773,NR_13( | **LOC102467222** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467223 | NR_104678 | **LINC02214** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467224 | NR_104997 | **LINC02147** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467225 | NR_104998 | **LINC02215** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467226 | NR_104999 | **LOC102467226** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102467655 | NR_105003 | **LINC02219** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102477328 | NR_105007 | **LINC02056** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102503427 | NR_105008 | **LOC102503427** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102503429 | NR_105009 | **LINC01335** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102524628 | NR_105015 | **RASGRF2-AS1** | RASGRF2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546175 | NR_105016 | **LINC01338** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546226 | NR_105021 | **LINC02060** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546227 | NR_105028 | **LINC01340** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546228 | NR_105042 | **LINC02039** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546229 | NR_105044 | **LOC102546229** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546294 | NR_105057 | **LOC102546294** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.417 |
| 102546298 | NR_105061 | **NDST1-AS1** | NDST1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102546299 | NR_105065 | **LOC102546299** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102557615 | NR_108020 | **LINC01947** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102577424 | NR_108030 | **LINC01574** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102577425 | gene-ARHGAP23P1 | **ARHGAP23P1** | Rho GTPase activating p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102577426 | NR_108031 | **LINC01962** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102578074 | NR_110138 | **PCAT5** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102606462 | gene-PRELID2P1 | **PRELID2P1** | PRELI domain containing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102606463 | NR_110124,NR_11( | **LINC01152** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102606465 | NR_109849 | **LOC102606465** | uncharacterized LOC102 | lncRNA | 7 | 8 | 8 | 9 | 1.141 |
| 102606466 | NR_109872 | **LOC102606466** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102659288 | NR_110014,NR_11( | **KCCAT333** | renal clear cell carcinom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102659353 | NR_110375 | **THRIL** | TNF and HNRNPL relate | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 102682016 | NR_110373,NR_11( | **LINC01159** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723099 | NR_130107 | **GHET1** | gastric carcinoma prolife | lncRNA | 1 | 1 | 2 | 2 | 0.888 |
| 102723165 | NR_110372 | **LINC01169** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723166 | NR_110370 | **STAM-AS1** | STAM antisense RNA 1 ( | lncRNA | 0 | 1 | 1 | 2 | 1.114 |
| 102723167 | NR_110369 | **MIR133A1HG** | MIR133A1 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723168 | id-IGHV2-70D | **IGHV2-70D** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 102723169 | id-IGHV1-69D | **IGHV1-69D** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 102723170 | id-IGHV3-64D | **IGHV3-64D** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 102723305 | XR_002958729,XR_ | **LOC102723305** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723313 | NR_146188 | **LOC102723313** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723314 | gene-PRELID3BP11 | **PRELID3BP11** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723316 | NR_132316 | **FRG1DP** | FSHD region gene 1 fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102723318 | NR_120427 | **LINC01053** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723320 | NR_120374 | **CERS3-AS1** | CERS3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723321 | XR_922079 | **LOC102723321** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723322 | NR_134311 | **LOC102723322** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.799 |
| 102723323 | XR_001752178,XR_ | **LOC102723323** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723324 | XR_001746556,XR_ | **LOC102723324** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.135 |
| 102723330 | NR_132279 | **LINC02729** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723331 | XR_427627 | **LOC102723331** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 102723332 | NR_120429 | **LINC00412** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.320 |
| 102723334 | XR_428139,XR_927 | **LOC102723334** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.113 |
| 102723335 | NR_135693 | **LOC102723335** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723338 | XR_001741755 | **LOC102723338** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723339 | XR_001742599 | **LOC102723339** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723340 | XR_001749274,XR_ | **LOC102723340** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 102723341 | XR_001744329,XR_ | **LOC102723341** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723342 | XR_429419 | **LOC102723342** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.021 |
| 102723344 | NR_120375 | **LINC02568** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723345 | NR_135320 | **LOC102723345** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723346 | NR_138040 | **HCG21** | HLA complex group 21 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723348 | XR_001737754,XR_ | **LOC102723348** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723350 | XR_001747486,XR_ | **LINC02636** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723354 | NR_110546 | **LINC02298** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723356 | NR_125796,NR_125 | **ZFPM2-AS1** | ZFPM2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723360 | NM_001322975,XM_ | **LOC102723360** | uncharacterized LOC102 | protein_coding | 1 | 1 | 2 | 2 | 0.843 |
| 102723362 | NR_110577 | **LINC01884** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723364 | XR_427356,XR_941 | **LOC102723364** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723368 | XR_428397 | **LOC102723368** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723370 | XR_001748151,XR_ | **LOC102723370** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723373 | NR_119378 | **LOC102723373** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723376 | NR_110795 | **LOC102723376** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723377 | NR_120672 | **CDH23-AS1** | CDH23 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723378 | NR_120583 | **LINC01495** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723380 | XR_430386 | **LOC102723380** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723381 | XR_001749802 | **LOC102723381** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723385 | NR_119379,NR_119 | **LOC102723385** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 102723389 | XR_001739336,XR_ | **LOC102723389** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723390 | NR_146067 | **FRG1EP** | FSHD region gene 1 fam | transcribed_pseu | 1 | 1 | 2 | 2 | 0.909 |
| 102723392 | XR_429233 | **LOC102723392** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723395 | XR_001745846,XR_ | **LOC102723395** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723396 | XR_429682 | **LOC102723396** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723401 | XR_427010 | **LOC102723401** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723403 | XR_001748160,XR_ | **LOC102723403** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723406 | XR_001749809,XR_ | **LOC102723406** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723409 | XR_001743859,XR_ | **LOC102723409** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723413 | XR_427162,XR_923 | **LOC102723413** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 102723414 | XR_429949 | **LOC102723414** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723415 | XR_001741660 | **LOC102723415** | uncharacterized LOC102 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723416 | gene-CDC27P3 | **CDC27P3** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723423 | gene-DUX4L25 | **DUX4L25** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723426 | NR_110654 | **LINC01496** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723427 | NR_120514 | **LOC102723427** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723430 | XR_001740853,XR_ | **LOC102723430** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.848 |
| 102723436 | XR_001738150 | **LOC102723436** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723439 | NR_120673 | **LOC102723439** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723441 | XR_427680,XR_925 | **CTD-2154B17.1** | uncharacterized CTD-21 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723442 | XR_146494,NR_146 | **LINC01754** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723444 | XR_001742856,XR_ | **LOC102723444** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723445 | XR_001744341,XR_ | **LOC102723445** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723446 | XR_001745202,XR_ | **LOC102723446** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723447 | XR_928547 | **LOC102723447** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723448 | NR_110824 | **LINC01986** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723449 | gene-DUX4L24 | **DUX4L24** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723451 | NM_001364711 | **FAM243B** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723458 | XR_001741759,XR_ | **LOC102723458** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.849 |
| 102723464 | XR_932375 | **LOC102723464** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 102723465 | NR_146472 | **ELF3-AS1** | ELF3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723468 | XR_001746932,XR_ | **LOC102723468** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723471 | NR_135668,NR_135 | **LHX1-DT** | LHX1 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723472 | gene-DUX4L23 | **DUX4L23** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723475 | NM_001330065,NM_ | **KCNE1B** | potassium voltage-gated | protein_coding | 0 | 0 | 1 | 1 | 1.014 |
| 102723480 | XR_001737685,XR_ | **LOC102723480** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.119 |
| 102723481 | NR_135687 | **LINC02206** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723483 | NR_110624,NR_110 | **CSE1L-AS1** | CSE1L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.878 |
| 102723487 | NR_110874,NR_110 | **LINC01497** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723490 | XR_001749824,XR_ | **LOC102723490** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723493 | NR_135686 | **LOC102723493** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 102723495 | gene-DUX4L22 | **DUX4L22** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723498 | gene-CDC27P4 | **CDC27P4** | . | pseudogene | 0 | 0 | 1 | 1 | 1.022 |
| 102723505 | NR_110876 | **ROCR** | regulator of chondrogen | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723506 | XR_001753516,XR_ | **LOC102723506** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723507 | XR_001755516,XR_ | **LOC102723507** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 102723508 | NR_110456,NR_145 | **KANTR** | KDM5C adjacent transcr | lncRNA | 1 | 1 | 2 | 2 | 0.875 |
| 102723510 | NR_120306 | **LCMT1-AS1** | LCMT1 antisense RNA 1 | lncRNA | 9 | 9 | 10 | 10 | 0.981 |
| 102723512 | XR_002959673 | **LOC102723512** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723513 | NR_110749 | **ZNF30-AS1** | ZNF30 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723516 | XR_429358,XR_943 | **LOC102723516** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723517 | NR_110877 | **LOC102723517** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723518 | gene-DUX4L21 | **DUX4L21** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723525 | XR_427495,XR_925 | **LINC02498** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723526 | NR_134270,NR_134 | **LINC02218** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723529 | XR_001738385,XR_ | **LOC102723529** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723530 | XR_427014,XR_939 | **LOC102723530** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723533 | XR_428146,XR_927 | **LOC102723533** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.377 |
| 102723534 | NR_160687,NR_160 | **LOC102723534** | HECT and RLD domain c | transcribed_pseu | 0 | 1 | 1 | 2 | 1.206 |
| 102723536 | XR_950945,XR_950 | **LOC102723536** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723538 | gene-DUX4L20 | **DUX4L20** | double homeobox 4 like . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723539 | XR_001748173 | **LOC102723539** | uncharacterized LOC102 | lncRNA | 1 | 2 | 2 | 3 | 1.112 |
| 102723543 | XR_426890 | **LOC102723543** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723544 | NR_120482 | **LOC102723544** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723546 | XR_001755966,XR_ | **LOC102723546** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723547 | XM_006724857,XM_ | **CSAG2** | CSAG family member 2, | protein_coding | 2 | 2 | 3 | 3 | 0.909 |
| 102723548 | XR_429557,XR_932 | **LOC102723548** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723552 | XR_002958558 | **ANKRD20A21P** | ankyrin repeat domain 2( | transcribed_pseu | 0 | 0 | 1 | 1 | 0.937 |
| 102723553 | NM_001313692,XM_ | **SMIM11B** | small integral membrane | protein_coding | 19 | 19 | 20 | 20 | 0.989 |
| 102723555 | NM_001351597,XM_ | **SPDYE16** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723557 | NR_134485 | **LMNB1-DT** | LMNB1 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.209 |
| 102723560 | XR_933661,XR_933 | **LOC102723560** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723561 | XR_001742404,XR_ | **LOC102723561** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.777 |
| 102723562 | NR_120483 | **LINC01498** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723564 | XR_001751436,XR_ | **LOC102723564** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.010 |
| 102723566 | NR_136302 | **LOC102723566** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.965 |
| 102723567 | XR_001753000,XR_ | **LINC02074** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723568 | XR_001748174,XR_ | **LOC102723568** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723570 | XR_430342 | **CDC27P9** | cell division cycle 27 pse | transcribed_pseu | 3 | 3 | 4 | 4 | 1.051 |
| 102723574 | gene-HAUS6P3 | **HAUS6P3** | HAUS augmin like compl | pseudogene | 1 | 1 | 2 | 2 | 0.946 |
| 102723575 | XR_950135,XR_950 | **LOC102723575** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723576 | XR_001741777,XR_ | **LOC102723576** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723578 | NR_110629 | **LINC01440** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723582 | NR_125405 | **LOC102723582** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.822 |
| 102723584 | XR_430343 | **CDC27P10** | cell division cycle 27 pse | transcribed_pseu | 3 | 3 | 4 | 4 | 1.043 |
| 102723585 | gene-LOC10272358 | **LOC102723585** | ornithine aminotransfera | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723590 | NR_110631 | **BMP7-AS1** | BMP7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723591 | XR_430558,XR_430 | **LOC102723591** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723594 | XR_427017 | **LOC102723594** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723596 | XR_001740591,XR_ | **LOC102723596** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723603 | XR_430344 | **CDC27P11** | cell division cycle 27 pse | transcribed_pseu | 2 | 2 | 3 | 3 | 1.030 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102723604 | NR_126331 | **LOC102723604** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723605 | NR_120515,NR_12( | **LINC01445** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723608 | XR_429954 | **LOC102723608** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723617 | NR_110750 | **LINC01766** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723618 | gene-LOC10272361 | **LOC102723618** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723619 | NR_146497 | **ATXN2-AS** | ATXN2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 102723623 | NM_001382446,XM_ | **LOC102723623** | golgin subfamily A memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723624 | XR_428544,XR_929 | **LOC102723624** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.804 |
| 102723626 | gene-TUBB8P8 | **TUBB8P8** | tubulin beta 8 class VIII ( | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 102723629 | XR_001747276,XR_ | **LINC02677** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723631 | NM_001291527,NM_ | **CT45A10** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723633 | XR_943044,XR_943 | **LOC102723633** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 102723634 | gene-LOC10272363 | **LOC102723634** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723635 | XR_428405,XR_928 | **LOC102723635** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723636 | gene-LOC10272363 | **LOC102723636** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723638 | XR_001742461,XR_ | **LOC102723638** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723639 | XR_001749329,XR_ | **LOC102723639** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723640 | NR_135684,NR_135 | **LINC02259** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723641 | NR_110878 | **HID1-AS1** | HID1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723644 | NR_120584 | **LINC01499** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723648 | XR_001744105,XR_ | **LOC102723648** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.545 |
| 102723649 | NR_125867 | **LOC102723649** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723654 | XR_001742463,XR_ | **LOC102723654** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723656 | XR_428152,XR_927 | **LOC102723656** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723657 | XR_001751600,XR_ | **LOC102723657** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723660 | gene-SOWAHCP3 | **SOWAHCP3** | . | pseudogene | 0 | 0 | 1 | 1 | 1.075 |
| 102723661 | NR_125991 | **LINC02790** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723663 | XR_001740595,XR_ | **LOC102723663** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723665 | NR_135921 | **LOC102723665** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.962 |
| 102723668 | gene-LOC10272366 | **LOC102723668** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723670 | XR_001750770,XR_ | **LOC102723670** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723672 | NR_134325 | **LOC102723672** | uncharacterized LOC102 | lncRNA | 2 | 3 | 3 | 4 | 1.260 |
| 102723675 | XR_001741617,XR_ | **LOC102723675** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723678 | XR_001746498,XR_ | **LOC102723678** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723680 | NM_001291540,NM_ | **CT45A9** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723684 | XR_428154 | **LOC102723684** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723686 | XR_001745433 | **LOC102723686** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723688 | gene-LOC10272368 | **LOC102723688** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723690 | XR_002956371,XR_ | **LOC102723690** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723692 | NR_135179 | **LOC102723692** | uncharacterized LOC102 | lncRNA | 3 | 4 | 4 | 5 | 1.038 |
| 102723694 | XR_002956728,XR_ | **LOC102723694** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.986 |
| 102723696 | XR_001740875,XR_ | **LOC102723696** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723699 | XR_001750778,XR_ | **LINC02284** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723701 | NR_125821 | **LOC102723701** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.025 |
| 102723704 | NR_125932 | **LOC102723704** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723708 | XR_001752364,XR_ | **LOC102723708** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723709 | NR_121606 | **LOC102723709** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723711 | gene-CDC27P7 | **CDC27P7** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723714 | XR_001751610,XR_ | **LOC102723714** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.298 |
| 102723716 | XR_001745877 | **LOC102723716** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723722 | XM_017029174 | **LOC102723722** | uncharacterized LOC102 | protein_coding | 1 | 1 | 2 | 2 | 0.738 |
| 102723724 | XR_001744390,XR_ | **LOC102723724** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723725 | XR_429367,XR_943 | **LOC102723725** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723727 | NR_135818,NR_135 | **LPGAT1-AS1** | LPGAT1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723728 | XM_006720996 | **LOC102723728** | nodal modulator 3-like | protein_coding | 62 | 66 | 63 | 67 | 1.058 |
| 102723729 | NR_125824 | **LOC102723729** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723730 | NR_168373 | **LOC102723730** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723733 | XR_427503 | **LOC102723733** | uncharacterized LOC102 | lncRNA | 1 | 0 | 2 | 1 | 0.838 |
| 102723737 | NM_001291535,XM_ | **CT45A8** | cancer/testis antigen fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723739 | XR_001739411,XR_ | **LOC102723739** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723740 | XR_925952,XR_925 | **LOC102723740** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723741 | XR_001742884,XR_ | **LINC02863** | long intergenic non-prote | lncRNA | 7 | 6 | 8 | 7 | 0.900 |
| 102723742 | NR_110547 | **LINC01500** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723749 | XR_001751754,XR_ | **LOC102723749** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723750 | XM_017022789,XM_ | **LOC102723750** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 0.978 |
| 102723752 | XR_427695,XR_925 | **LOC102723752** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723757 | XR_001749103,XR_ | **LOC102723757** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723758 | XR_001745045,XR_ | **LOC102723758** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723759 | XR_001740900,XR_ | **LOC102723759** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 102723760 | XR_426674 | **LOC102723760** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723761 | XR_001738462,XR_ | **LINC02773** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723763 | XR_001741552,XR_ | **LOC102723763** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723764 | NR_146499 | **LINC02364** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723765 | XR_001748247,XR_ | **LOC102723765** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723766 | NR_125933,NR_125 | **LINC02362** | long intergenic non-prote | lncRNA | 1 | 2 | 2 | 3 | 1.247 |
| 102723769 | NR_110761 | **LOC102723769** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723775 | NR_120595,NR_120 | **LINC01315** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723777 | gene-LOC10272377 | **LOC102723777** | . | pseudogene | 1 | 1 | 2 | 2 | 1.162 |
| 102723778 | NR_125935 | **LINC02497** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723780 | NR_132320 | **FRG1FP** | FSHD region gene 1 fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102723784 | XR_426740,XR_947 | **LOC102723784** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.914 |
| 102723786 | XR_429763,XR_933 | **LOC102723786** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723789 | XR_001744112,XR_ | **LOC102723789** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723791 | XR_001744950,XR_ | **LOC102723791** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723795 | XR_001745446,XR_ | **LOC102723795** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.922 |
| 102723796 | NM_001367365,XM_ | **TLE7** | TLE family member 7 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723798 | XR_001753832,XR_ | **LOC102723798** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723803 | XR_002956872,XR_ | **LOC102723803** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.726 |
| 102723809 | NR_110550 | **LOC102723809** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723811 | XR_002958449 | **LOC102723811** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.316 |
| 102723814 | XR_430332 | **LOC102723814** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 102723817 | XR_001738493,XR_ | **CNIH3-AS2** | CNIH3 antisense RNA 2, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723818 | NR_110580 | **LINC01248** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723819 | XR_429957 | **LOC102723819** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723824 | NR_110584 | **EML4-AS1** | EML4 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.972 |
| 102723825 | XR_001739239,XR_ | **LOC102723825** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723828 | NR_125936 | **LINC02506** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723831 | NR_125868 | **LOC102723831** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723833 | NR_125992,NR_125 | **USH2A-AS2** | USH2A antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723834 | XR_001738498,XR_ | **LOC102723834** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723838 | NR_135076 | **LOC102723838** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723839 | NR_131946 | **LINC02224** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723842 | XR_428160 | **LOC102723842** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723846 | XR_002959785,XR_ | **LOC102723846** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723849 | NM_001351351 | **SPDYE17** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723850 | XR_001746730,XR_ | **LOC102723850** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723854 | NR_110585 | **LINC01819** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723855 | XR_428608 | **LOC102723855** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723859 | NM_001291466,XM_ | **TBC1D3E** | TBC1 domain family mer | protein_coding | 3 | 3 | 4 | 4 | 1.053 |
| 102723862 | XR_001748344,XR_ | **LOC102723862** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723870 | XR_426677 | **LOC102723870** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.273 |
| 102723872 | XR_002956529,XR_ | **LOC102723872** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.907 |
| 102723875 | NR_125788 | **LINC01065** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723876 | XR_001752373,XR_ | **LOC102723876** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723878 | XR_001748257,XR_ | **LOC102723878** | uncharacterized LOC102 | lncRNA | 19 | 18 | 20 | 19 | 0.930 |
| 102723879 | XR_001748077,XR_ | **LOC102723879** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723883 | NR_125869 | **LOC102723883** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723885 | NR_120517 | **SRI-AS1** | SRI antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.616 |
| 102723886 | NR_135822 | **LYPLAL1-AS1** | LYPLAL1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723895 | NR_120585 | **LINC02552** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.872 |
| 102723896 | XR_427577 | **LOC102723896** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723897 | XR_001737556 | **WASH9P** | WAS protein family hom | transcribed_pseu | 10 | 11 | 11 | 12 | 1.121 |
| 102723899 | NM_001365443 | **LOC102723899** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723904 | XR_940034,XR_940 | **LOC102723904** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.853 |
| 102723906 | XR_002959826,XR_ | **LOC102723906** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723910 | XR_001749890,XR_ | **LOC102723910** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102723911 | XR_430523,XR_938 | **LOC102723911** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723914 | XR_427579 | **LOC102723914** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.082 |
| 102723920 | XR_001741954,XR_ | **LINC02515** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723922 | XR_001743911,XR_ | **LOC102723922** | uncharacterized LOC102 | lncRNA | 3 | 3 | 4 | 4 | 1.073 |
| 102723927 | NR_110592 | **LINC01238** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723932 | XR_428556,XR_929 | **LNCARSR** | lncRNA regulator of Akt s | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723933 | XR_429960 | **LOC102723933** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723934 | gene-LOC10272393 | **LOC102723934** | . | pseudogene | 0 | 0 | 1 | 1 | 1.057 |
| 102723935 | XR_001738515,XR_ | **LOC102723935** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.264 |
| 102723944 | XR_001743921,XR_ | **LOC102723944** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723948 | XR_001746584,XR_ | **LOC102723948** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723952 | gene-LOC10272395 | **LOC102723952** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723955 | XR_001738210,XR_ | **LOC102723955** | phosphodiesterase 4D in | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102723961 | XR_430026,XR_935 | **LOC102723961** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723963 | XR_429135 | **LOC102723963** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723966 | XR_428993 | **LOC102723966** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723967 | XR_001741422 | **LOC102723967** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723968 | NR_130763 | **LOC102723968** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723971 | NM_001375657 | **LOC102723971** | lipocalin 1-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102723977 | gene-UBE2V1P11 | **UBE2V1P11** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102723981 | gene-RPL23AP84 | **RPL23AP84** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.006 |
| 102723983 | XR_429136 | **LOC102723983** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 102723985 | XR_001751634,XR_ | **LOC102723985** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723989 | XR_428560,XR_930 | **LOC102723989** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723994 | XR_428445 | **LOC102723994** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102723996 | NM_001363770,XM_ | **LOC102723996** | ICOS ligand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724000 | NR_121615 | **LINC01626** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724001 | XR_001751639,XR_ | **LOC102724001** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724008 | XR_001739457,XR_ | **LOC102724008** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724009 | NR_120665 | **KIF1C-AS1** | KIF1C antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724015 | XR_001750808,XR_ | **LOC102724015** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.225 |
| 102724018 | NR_135055 | **FRG2KP** | FSHD region gene 2 fam | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724019 | XR_427412 | **LOC102724019** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724020 | NR_120484 | **LOC102724020** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724023 | NM_001363758,NM_ | **GATD3B** | glutamine amidotransfer | protein_coding | 35 | 38 | 36 | 39 | 1.094 |
| 102724027 | XR_001746617 | **LOC102724027** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724030 | XR_001749159,XR_ | **LOC102724030** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724034 | NR_120378 | **LOC102724034** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724035 | gene-NDUFA5P2 | **NDUFA5P2** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724036 | XR_001746804,XR_ | **LOC102724036** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724039 | XR_428677,XR_930 | **LINC02654** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724046 | XR_001738490,XR_ | **LOC102724046** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724047 | XR_429776,XR_429 | **WWOX-AS1** | WWOX antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724048 | XR_001740643,XR_ | **LOC102724048** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724050 | NR_120486,NR_120 | **LOC102724050** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724053 | NR_125873 | **LINC02529** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724055 | XR_001751766,XR_ | **LOC102724055** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724057 | XR_001746521,XR_ | **LOC102724057** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 102724058 | NR_110598 | **LOC102724058** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724062 | XM_011546026 | **LOC102724062** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724064 | NR_135761 | **LOC102724064** | uncharacterized LOC102 | lncRNA | 3 | 2 | 4 | 3 | 0.858 |
| 102724068 | XR_001740934,XR_ | **LOC102724068** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 102724070 | gene-LOC10272407 | **LOC102724070** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724072 | XR_001739475,XR_ | **LOC102724072** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724076 | NR_125785 | **LINC01038** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724077 | NR_126355 | **LINC01389** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.902 |
| 102724078 | XR_001751468,XR_ | **LOC102724078** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724080 | XR_001746546,XR_ | **LOC102724080** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724081 | XR_001739767,XR_ | **LOC102724081** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.065 |
| 102724082 | XR_001747682,XR_ | **LOC102724082** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724084 | NR_120307 | **LOC102724084** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.124 |
| 102724087 | XR_001744438,XR_ | **LOC102724087** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724092 | XR_430497 | **LOC102724092** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724093 | XR_429585 | **LOC102724093** | golgin subfamily A memt | transcribed_pseu | 1 | 0 | 2 | 1 | 0.917 |
| 102724094 | NR_120519,NR_120 | **MUC12-AS1** | MUC12 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.728 |
| 102724096 | NR_125874 | **LOC102724096** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724097 | NR_123731 | **TTC39A-AS1** | TTC39A antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724100 | XR_949285 | **SLC35F3-AS1** | SLC35F3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724101 | NM_001330061,NR_ | **TP53TG3E** | TP53 target 3 family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724102 | XR_428448 | **LOC102724102** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724104 | XR_001740659,XR_ | **LOC102724104** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.965 |
| 102724105 | NR_125345 | **ZNF528-AS1** | ZNF528 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724117 | XR_429586 | **LOC102724117** | golgin subfamily A memt | transcribed_pseu | 1 | 1 | 2 | 2 | 0.953 |
| 102724120 | XR_001740940 | **LOC102724120** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724122 | XR_427722 | **LOC102724122** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724127 | NM_001330066,NR_ | **TP53TG3F** | TP53 target 3 family mer | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724130 | NR_149137,NR_149 | **LINC02564** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724135 | NR_158192 | **LOC102724135** | uncharacterized LOC102 | transcribed_pseu | 14 | 14 | 15 | 15 | 0.975 |
| 102724142 | XR_001739488,XR_ | **LOC102724142** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724143 | XR_927091 | **LOC102724143** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724145 | XR_427423 | **LOC102724145** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724146 | XR_002957404,XR_ | **LOC102724146** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.058 |
| 102724148 | gene-LOC10272414 | **LOC102724148** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724149 | XR_429273 | **LOC102724149** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.240 |
| 102724150 | XR_001755912,XR_ | **LOC102724150** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724152 | NR_134620 | **LOC102724152** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724153 | NR_110552 | **LOC102724153** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724156 | NR_135137,NR_135 | **LOC102724156** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724158 | XR_001741809,XR_ | **LOC102724158** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724159 | NM_001368238,NR_ | **LOC102724159** | periodic tryptophan prote | protein_coding | 39 | 38 | 40 | 39 | 0.957 |
| 102724163 | NR_120308 | **LOC102724163** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724165 | XR_001748396,XR_ | **LINC02703** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724167 | NR_110659 | **PABPC5-AS1** | PABPC5 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724168 | NR_149134,NR_149 | **LINC02542** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 102724178 | gene-LOC10272417 | **LOC102724178** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724181 | gene-LOC10272418 | **LOC102724181** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724183 | XR_001752900,XR_ | **LOC102724183** | Wnt family member 9-like | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724188 | NR_110544 | **LINC01674** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724190 | NR_110553 | **LINC02289** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724191 | gene-LOC10272419 | **LOC102724191** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724193 | XR_930443 | **LOC102724193** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724194 | XR_427194,XR_923 | **LOC102724194** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724200 | XM_011546082 | **LOC102724200** | trafficking protein particle | protein_coding | 16 | 14 | 17 | 15 | 0.874 |
| 102724201 | NR_125875,NR_125 | **TBX18-AS1** | TBX18 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724202 | XR_428680 | **LOC102724202** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724207 | XR_001752130 | **LOC102724207** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724208 | XR_001753528,XR_ | **LINC01900** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724210 | XR_001741823,XR_ | **LOC102724210** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724214 | XR_932105 | **LOC102724214** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724219 | NM_001322044,XM_ | **LOC102724219** | uncharacterized LOC102 | protein_coding | 2 | 2 | 3 | 3 | 1.111 |
| 102724220 | XR_428059,XR_943 | **LOC102724220** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724222 | XR_426851 | **LOC102724222** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724223 | gene-LOC10272422 | **LOC102724223** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724224 | NR_110599 | **LINC01117** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724227 | XR_001749032,XR_ | **LOC102724227** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724231 | NM_001351479,NM_ | **C3orf86** | chromosome 3 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724233 | XR_427040,XR_940 | **LINC02576** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724234 | XR_427872,XR_926 | **LOC102724234** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724236 | gene-LOC10272423 | **LOC102724236** | . | pseudogene | 2 | 3 | 3 | 4 | 1.150 |
| 102724237 | XM_006717347 | **LOC102724237** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724238 | NR_126048 | **LOC102724238** | uncharacterized LOC102 | lncRNA | 1 | 2 | 2 | 3 | 1.103 |
| 102724245 | XR_001747397,XR_ | **LOC102724245** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724246 | NR_110796 | **TTC39C-AS1** | TTC39C antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 0.843 |
| 102724253 | XR_429514,XR_932 | **LOC102724253** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724261 | XR_429056 | **LOC102724261** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724262 | XR_001752779,XR_ | **LOC102724262** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.854 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102724264 | NR_134483,NR_13 | **LINC02658** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724265 | NM_001319657 | **LOC102724265** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 0.947 |
| 102724269 | gene-LOC10272426 | **LOC102724269** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724273 | XR_001754000,XR_ | **LOC102724273** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.409 |
| 102724279 | NM_001302493 | **CLEC4O** | C-type lectin domain fam | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724288 | XR_001739816 | **LOC102724288** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724289 | XR_001740970,XR_ | **LOC102724289** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724290 | XR_001754011 | **LOC102724290** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724294 | NR_146498 | **LINC02311** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724297 | NR_125406 | **CCR5AS** | CCR5 antisense RNA | lncRNA | 1 | 0 | 2 | 1 | 0.653 |
| 102724301 | NR_120587 | **LOC102724301** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724307 | XR_428804 | **CYP17A1-AS1** | CYP17A1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724312 | NR_125994,NR_12 | **LINC01770** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724316 | NR_003930,NR_11 | **SVIL-AS1** | SVIL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724319 | XR_001738099,XR_ | **LOC102724319** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724321 | NR_110600 | **LINC01628** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724322 | XR_001746655,XR_ | **LOC102724322** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.110 |
| 102724323 | NR_120674 | **LOC102724323** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724327 | XR_427954 | **LOC102724327** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724329 | XR_426856,XR_426 | **LOC102724329** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.884 |
| 102724330 | XR_001745897,XR_ | **LOC102724330** | uncharacterized LOC102 | lncRNA | 4 | 4 | 5 | 5 | 1.115 |
| 102724333 | XR_428684 | **LOC102724333** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724334 | XM_006723918 | **LOC102724334** | histone H2B type F-S-like | protein_coding | 0 | 1 | 1 | 2 | 1.555 |
| 102724338 | XR_944093 | **LINC02305** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724339 | XR_001745317 | **CTB-30L5.1** | uncharacterized CTB-30l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724340 | XR_001739818,XR_ | **LOC102724340** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724341 | NR_120675,NR_12 | **NEURL1-AS1** | NEURL1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724344 | NR_135182,NR_13 | **LINC02188** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724350 | XR_001747683,XR_ | **LINC02637** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724351 | XR_001747579,XR_ | **LOC102724351** | uncharacterized LOC102 | lncRNA | 2 | 1 | 3 | 2 | 0.837 |
| 102724354 | NR_136540 | **LINC01669** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724355 | XR_430359,XR_937 | **LOC102724355** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724357 | NR_134619 | **LOC102724357** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724358 | XR_426859 | **LOC102724358** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724360 | NR_134912,NR_13 | **HOMER3-AS1** | HOMER3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724362 | NR_146466,NR_14 | **SPINT1-AS1** | SPINT1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724363 | XR_002956579 | **LOC102724363** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724364 | XR_922650 | **SEC22B4P** | SEC22 homolog B4, pse | transcribed_pseu | 2 | 2 | 3 | 3 | 0.881 |
| 102724365 | gene-LOC10272436 | **LOC102724365** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724368 | NR_111921 | **LINC02585** | long intergenic non-prote | lncRNA | 1 | 3 | 2 | 4 | 1.780 |
| 102724370 | XR_430337 | **LOC102724370** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724373 | XR_001739521,XR_ | **LINC02831** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724378 | NR_160696,NR_16 | **LOC102724378** | uncharacterized LOC102 | lncRNA | 2 | 3 | 3 | 4 | 1.086 |
| 102724379 | XR_001743974 | **LOC102724379** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724380 | XR_001750846,XR_ | **LINC02316** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724382 | XR_001738570,XR_ | **LOC102724382** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 102724386 | NR_120521 | **LINC01393** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.776 |
| 102724389 | XR_940224 | **LOC102724389** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724392 | NR_134268,NR_13 | **LINC02197** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 102724393 | XR_429600 | **LOC102724393** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724397 | XR_430055,XR_430 | **LOC102724397** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724398 | XM_006723919,XM_ | **CH507-42P11.6** | uncharacterized CH507- | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724404 | NR_136204,NR_13 | **LOC102724404** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.902 |
| 102724406 | XR_942814,XR_942 | **SIM1-AS1** | SIM1 antisense RNA 1, t | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724407 | XR_428232 | **LOC102724407** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724410 | XR_429009,XR_948 | **LOC102724410** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724416 | XR_947461,XR_947 | **LOC102724416** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724417 | XR_001753555,XR_ | **LOC102724417** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724419 | XR_001740997,XR_ | **LOC102724419** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724420 | XR_001754995 | **LOC102724420** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 102724421 | NR_120490 | **LOC102724421** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724427 | XR_430184,XR_936 | **LOC102724427** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724428 | NM_001320643,XM | **SIK1B** | salt inducible kinase 1B | protein_coding | 2 | 2 | 3 | 3 | 1.016 |
| 102724429 | XR_001737878,XR_ | **LOC102724429** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724430 | gene-KRT8P50 | **KRT8P50** | keratin 8 pseudogene 50 | pseudogene | 0 | 0 | 1 | 1 | 1.114 |
| 102724431 | XR_246688,XR_428 | **LOC102724431** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724433 | NR_146500 | **LINC02420** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724434 | NR_130921,NR_13 | **LOC102724434** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724437 | gene-LOC10272443 | **LOC102724437** | profilin-1-like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724438 | XR_001740693,XR_ | **LOC102724438** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724439 | XR_428810,XR_946 | **LOC102724439** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724443 | XR_942829 | **LOC102724443** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724446 | XR_426948 | **LOC102724446** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724447 | gene-LOC10272444 | **LOC102724447** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724449 | XR_002958653,XR_ | **LOC102724449** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.211 |
| 102724450 | NR_125997 | **RNF207-AS1** | RNF207 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724452 | NR_135683 | **LOC102724452** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724458 | XR_427816,XR_941 | **LOC102724458** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.952 |
| 102724463 | XR_001744001,XR_ | **LOC102724463** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724465 | XR_001751744,XR_ | **LOC102724465** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724467 | NR_120309 | **LOC102724467** | uncharacterized LOC102 | lncRNA | 2 | 3 | 3 | 4 | 1.184 |
| 102724468 | gene-LOC10272446 | **LOC102724468** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724470 | NR_146509 | **LINC01887** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724473 | NM_001098413,XM | **GAGE10** | G antigen 10 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724474 | XM_011537532 | **LOC102724474** | WAS/WASL-interacting p | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724475 | XR_001744487 | **LOC102724475** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724479 | XR_001740531,XR_ | **LOC102724479** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.139 |
| 102724481 | XR_426708,XR_947 | **LINC01702** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724482 | XR_427046,XR_940 | **LOC102724482** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724484 | NR_120522 | **CHN2-AS1** | CHN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724485 | XM_011546045 | **LOC102724485** | putative cyclin-Y-like pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724488 | NM_001370182,NM | **LOC102724488** | synaptotagmin-15 | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 102724489 | XR_429280,XR_931 | **LOC102724489** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724491 | XR_430541,XR_430 | **LOC102724491** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724495 | XR_428238 | **LOC102724495** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724497 | XR_001739541,XR_ | **LOC102724497** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 102724502 | NR_135522 | **LINC01690** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724507 | XR_001746680,XR_ | **LOC102724507** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.940 |
| 102724508 | NR_110880,NR_11 | **THCAT158** | thyroid cancer-associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724510 | XR_429281,XR_931 | **LOC102724510** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724511 | NR_125878 | **LOC102724511** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724515 | NR_125792 | **LINC01291** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724517 | XR_001752820 | **LOC102724517** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.794 |
| 102724520 | XR_427882,XR_427 | **LOC102724520** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724521 | XR_001755744,XR_ | **LOC102724521** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724523 | XR_429709 | **LOC102724523** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724525 | gene-LOC10272452 | **LOC102724525** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724527 | XR_002956583 | **LOC102724527** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724528 | XR_001738294,XR_ | **LOC102724528** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.113 |
| 102724530 | XR_001742755,XR_ | **LOC102724530** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724532 | NR_135480 | **LOC102724532** | uncharacterized LOC102 | lncRNA | 5 | 8 | 6 | 9 | 1.427 |
| 102724533 | XR_001747291,XR_ | **LOC102724533** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724539 | NR_125998 | **LINC01714** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724542 | XR_001739571,XR_ | **LOC102724542** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724545 | XR_001754469,XR_ | **LOC102724545** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724548 | XR_426710,XR_947 | **HHLA3-AS1** | HHLA3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724550 | NR_110826 | **LINC02015** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724551 | XR_001743007,XR_ | **LOC102724551** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724552 | NR_125999 | **RERE-AS1** | RERE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724553 | XR_001751520,XR_ | **LOC102724553** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724555 | NR_111922 | **ASB15-AS1** | ASB15 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724557 | XR_001742517 | **LOC102724557** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724560 | NM_001321073,NM | **CBSL** | cystathionine beta-synth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724566 | XR_001751649,XR_ | **LOC102724566** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 102724571 | NR_132738 | **LNCTAM34A** | long non coding transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724572 | XR_001737665,XR_ | **LOC102724572** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102724577 | XR_927926 | **LOC102724577** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724579 | NR_136323 | **LOC102724579** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724580 | NR_136300 | **LOC102724580** | methylenetetrahydrofolat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724584 | XR_937688 | **LOC102724584** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724586 | XR_001744290,XR_ | **LOC102724586** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724587 | XR_001751538,XR_ | **LOC102724587** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724589 | NR_120677 | **LINC02626** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724591 | XR_002956328 | **LOC102724591** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.879 |
| 102724593 | NR_134489 | **LOC102724593** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724594 | NM_001320646,NM | **U2AF1L5** | U2 small nuclear RNA au | protein_coding | 291 | 313 | 292 | 314 | 1.076 |
| 102724596 | NR_110882,NR_11( | **LOC102724596** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 1.330 |
| 102724601 | NR_121197 | **RABGAP1L-DT** | RABGAP1L divergent tra | lncRNA | 0 | 2 | 1 | 3 | 2.637 |
| 102724602 | gene-LOC10272460 | **LOC102724602** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724603 | XR_001747448,XR_ | **LOC102724603** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724604 | NR_125407 | **LOC102724604** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724608 | XR_430484 | **LOC102724608** | uncharacterized LOC102 | lncRNA | 1 | 0 | 2 | 1 | 0.757 |
| 102724612 | NR_125825 | **LOC102724612** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724615 | XR_001753551,XR_ | **LOC102724615** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724617 | XR_001741037,XR_ | **LINC02031** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724618 | XR_001749081,XR_ | **LOC102724618** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724623 | NR_125826 | **LINC01414** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724624 | NR_164158 | **LOC102724624** | uncharacterized protein l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724625 | XR_001753094,XR_ | **LOC102724625** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724627 | XR_001747601,XR_ | **LINC02674** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724631 | NM_207355,NR_11( | **POTEB3** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724632 | XR_001752306,XR_ | **LOC102724632** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 102724637 | XR_001742791,XR_ | **LOC102724637** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724638 | XR_001755434,XR_ | **LOC102724638** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724642 | XM_024453280 | **LOC102724642** | anaphase-promoting con | protein_coding | 5 | 5 | 6 | 6 | 0.900 |
| 102724643 | XR_945929,XR_945 | **FAM245B** | family with sequence sim | lncRNA | 1 | 1 | 2 | 2 | 1.133 |
| 102724646 | NR_168402 | **LOC102724646** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724651 | NR_110798 | **LINC01919** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724652 | NM_001314050,NM | **CRYAA2** | crystallin alpha A2 | protein_coding | 0 | 0 | 1 | 1 | 1.035 |
| 102724653 | XR_430420,XR_938 | **LOC102724653** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724655 | gene-AQP7P5 | **AQP7P5** | aquaporin 7 pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724657 | XM_017010138,XM | **LOC102724657** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 102724659 | NR_126000 | **C1orf167-AS1** | C1orf167 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724660 | XR_428245,XR_428 | **LOC102724660** | uncharacterized LOC102 | lncRNA | 2 | 1 | 3 | 2 | 0.936 |
| 102724661 | NR_126001 | **LINC01645** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724663 | NR_120491 | **PPFIA2-AS1** | PPFIA2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724668 | NR_132360 | **DPY19L1P2** | DPY19L1 pseudogene 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724670 | XR_928388 | **LOC102724670** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.907 |
| 102724672 | XR_001741438,XR_ | **LOC102724672** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724677 | gene-LOC10272467 | **LOC102724677** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724678 | NR_110545 | **LINC01423** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724679 | NR_149133 | **LINC02556** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724680 | XR_429164,XR_945 | **LOC102724680** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724682 | XR_001750883,XR_ | **LOC102724682** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724684 | XR_428583,XR_930 | **LOC102724684** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724687 | XR_001745952,XR_ | **LOC102724687** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 102724691 | NR_110603 | **MRPS9-AS2** | MRPS9 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724698 | NR_146510,NR_146 | **LINC01905** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724699 | NR_125409 | **LINC02043** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.096 |
| 102724700 | XR_427615,XR_939 | **LOC102724700** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724701 | XR_001755105,XR_ | **LOC102724701** | uncharacterized LOC102 | lncRNA | 6 | 4 | 7 | 5 | 0.814 |
| 102724706 | gene-UBE2V1P8 | **UBE2V1P8** | ubiquitin conjugating en | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724708 | NR_136223,NR_136 | **LOC102724708** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.119 |
| 102724710 | NR_125827 | **LOC102724710** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724711 | XR_002957236 | **LOC102724711** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724714 | NR_135566,NR_135 | **LINC01857** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724715 | XR_002958137,XR_ | **LOC102724715** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.737 |
| 102724719 | NR_120678 | **LOC102724719** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724720 | NR_157807 | **LOC102724720** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.059 |
| 102724723 | XR_001745165,XR_ | **LOC102724723** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724726 | gene-LOC10272472 | **LOC102724726** | CXADR, Ig-like cell adhe | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724731 | XR_429943,XR_429 | **LOC102724731** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.947 |
| 102724732 | XR_429997 | **LOC102724732** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724734 | XR_001754519,XR_ | **LOC102724734** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724736 | XR_427895,XR_926 | **LOC102724736** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724737 | gene-LOC10272473 | **LOC102724737** | . | pseudogene | 0 | 0 | 1 | 1 | 0.991 |
| 102724738 | NR_136256 | **LOC102724738** | solute carrier family 25 m | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724740 | XR_001755043,XR_ | **LOC102724740** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724742 | gene-PRAMEF28P | **PRAMEF28P** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724744 | XR_002959412,XR_ | **LOC102724744** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724745 | XR_001753466,XR_ | **LOC102724745** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724748 | XR_001742445,XR_ | **LOC102724748** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.245 |
| 102724749 | XR_001744027,XR_ | **LOC102724749** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724754 | XR_426873 | **LOC102724754** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724760 | NR_135695 | **LOC102724760** | immunoglobulin heavy va | transcribed_pseu | 0 | 0 | 1 | 1 | 1.090 |
| 102724763 | XR_001740737,XR_ | **LINC02040** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724765 | XR_001744049,XR_ | **LOC102724765** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 102724768 | XR_428752 | **LOC102724768** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724772 | XR_428360,XR_929 | **LOC102724772** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724774 | NR_131251 | **LINC01594** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.116 |
| 102724775 | XR_950387 | **LOC102724775** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724776 | NR_125937 | **LOC102724776** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724777 | gene-LOC10272477 | **LOC102724777** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724778 | XR_428753,XR_945 | **LOC102724778** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724780 | XR_001741713 | **LOC102724780** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 102724784 | NR_120590 | **LOC102724784** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724785 | XR_001741525,XR_ | **LOC102724785** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724793 | XR_428823 | **LOC102724793** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724800 | XR_001755061,XR_ | **LOC102724800** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724801 | XR_938106 | **LOC102724801** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724802 | XR_001751785 | **LOC102724802** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724804 | NR_125828,NR_125 | **LOC102724804** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724805 | XR_940344,XR_940 | **LOC102724805** | uncharacterized LOC102 | lncRNA | 0 | 1 | 1 | 2 | 1.604 |
| 102724808 | XR_001741072,XR_ | **LOC102724808** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724810 | NR_151718 | **LINC02062** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.137 |
| 102724814 | NR_110555 | **LOC102724814** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.894 |
| 102724817 | XR_001740751,XR_ | **LOC102724817** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724818 | XR_428473,XR_929 | **LOC102724818** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724820 | NR_110604,NR_110 | **LANCL1-AS1** | LANCL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724822 | gene-LOC10272482 | **LOC102724822** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724826 | NR_126465,NR_126 | **ZNF337-AS1** | ZNF337 antisense RNA 1 | lncRNA | 5 | 5 | 6 | 6 | 1.147 |
| 102724827 | NR_110543 | **MIATNB** | MIAT neighbor | lncRNA | 1 | 1 | 2 | 2 | 0.957 |
| 102724830 | XR_001738323,XR_ | **LOC102724830** | uncharacterized LOC102 | lncRNA | 1 | 1 | 2 | 2 | 0.876 |
| 102724832 | XR_001741719,XR_ | **LOC102724832** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 102724834 | XR_429171 | **LINC02822** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724838 | XR_428318 | **LOC102724838** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724843 | NM_001322047,XM | **LOC102724843** | uncharacterized LOC102 | protein_coding | 9 | 7 | 10 | 8 | 0.772 |
| 102724845 | XR_001750659,XR_ | **LINC00596** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724847 | XR_933518,XR_933 | **LOC102724847** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724848 | XR_427154 | **LOC102724848** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724849 | NR_110607 | **LOC102724849** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724850 | XR_001752857,XR_ | **LOC102724850** | uncharacterized LOC102 | lncRNA | 9 | 7 | 10 | 8 | 0.827 |
| 102724851 | XR_001744059,XR_ | **LOC102724851** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.058 |
| 102724853 | gene-NDUFA5P10 | **NDUFA5P10** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724855 | NR_110562 | **LINC02113** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724856 | XR_426658,XR_426 | **LOC102724856** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724857 | XR_001738325,XR_ | **LOC102724857** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724858 | XR_001745961,XR_ | **LOC102724858** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724859 | XR_001752139,XR_ | **LOC102724859** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724861 | XR_001739874,XR_ | **LOC102724861** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724862 | NM_001291463,XM | **TBC1D3I** | TBC1 domain family mer | protein_coding | 1 | 1 | 2 | 2 | 1.274 |
| 102724863 | XR_428756 | **LOC102724863** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102724866 | gene-NDUFA5P11 | **NDUFA5P11** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724868 | gene-TPT1P11 | **TPT1P11** | tumor protein, translatior | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724874 | NR_125830 | **LOC102724874** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724875 | XR_427156 | **LOC102724875** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724877 | XM_011513352,XM_ | **LOC102724877** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 0.951 |
| 102724880 | XR_001745798,XR_ | **LOC102724880** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724881 | XR_001745820 | **LOC102724881** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724883 | XR_001747661 | **LOC102724883** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.847 |
| 102724890 | NR_110556,NR_110 | **LINC02293** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724892 | XR_426717 | **LOC102724892** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 102724895 | NR_146458 | **LIVAR** | liver cell viability associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724900 | XR_430432,XR_938 | **LOC102724900** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724903 | XR_428133 | **LOC102724903** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724904 | NR_160669 | **LOC102724904** | methylenetetrahydrofola | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724906 | XR_927982 | **LOC102724906** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724907 | XR_001752046 | **LOC102724907** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.823 |
| 102724908 | NR_135636 | **LOC102724908** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724913 | NR_126324 | **LINC01899** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724916 | XR_001741744,XR_ | **LOC102724916** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724917 | XR_001750693,XR_ | **LINC02327** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724919 | NR_126002 | **PDC-AS1** | PDC antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.525 |
| 102724922 | gene-LOC10272492 | **LOC102724922** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 102724927 | NR_120311 | **LINC02861** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724928 | NR_158158 | **CCNYL3** | cyclin Y like 3 (pseudoge | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102724929 | XR_428592,XR_428 | **LOC102724929** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724933 | NR_120492 | **LINC02412** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724934 | XR_001750706,XR_ | **LOC102724934** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724938 | XR_932342 | **LOC102724938** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724940 | XR_001752171 | **LINC02128** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724943 | XR_001742591,XR_ | **LOC102724943** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 102724945 | XR_001750942,XR_ | **LOC102724945** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724946 | XR_001745190 | **LOC102724946** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724948 | XR_001739319,XR_ | **LOC102724948** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724949 | XR_001740451 | **LOC102724949** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724950 | XR_001754588,XR_ | **LOC102724950** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724951 | NM_001322036,XM | **LOC102724951** | uncharacterized LOC102 | protein_coding | 2 | 3 | 3 | 4 | 1.139 |
| 102724954 | NR_126003 | **RGS2-AS1** | RSG2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724955 | XR_001739643,XR_ | **LOC102724955** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724956 | XR_429947 | **LOC102724956** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724957 | NM_001293172,XM | **LOC102724957** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724958 | NR_110760 | **LOC102724958** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724960 | XR_429176,XR_945 | **LOC102724960** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724965 | XM_024453277,XM_ | **LOC102724965** | uncharacterized LOC102 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724968 | XR_001754596,XR_ | **LOC102724968** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102724971 | XM_011543804 | **LOC102724971** | putative V-set and immu | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 102724977 | XR_001751026 | **LOC102724977** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725019 | XR_001743875 | **LOC102725019** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725021 | NR_157593,NR_157 | **LOC102725021** | uncharacterized LOC102 | lncRNA | 1 | 2 | 2 | 3 | 1.360 |
| 102725022 | NR_135834 | **LINC02352** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.097 |
| 102725044 | XR_001750660,XR_ | **LOC102725044** | uncharacterized LOC102 | lncRNA | 3 | 3 | 4 | 4 | 1.061 |
| 102725045 | NR_147061 | **LINC02588** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725048 | XR_943256 | **LOC102725048** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725065 | XR_937789 | **LOC102725065** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725068 | NR_149132 | **MICB-DT** | MICB divergent transcrip | lncRNA | 2 | 2 | 3 | 3 | 1.012 |
| 102725072 | NR_135922 | **LOC102725072** | Putative uncharacterized | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 102725079 | NR_131941,NR_131 | **LINC01878** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725080 | NR_134450 | **LOC102725080** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725082 | XR_001739869 | **LOC102725082** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 102725101 | id-LOC102725101 | **LOC102725101** | immunoglobulin heavy va | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 102725105 | NR_146519 | **CDH18-AS1** | CDH18 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725112 | XR_001747385,XR_ | **LOC102725112** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725116 | XR_001752202,XR_ | **LOC102725116** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725121 | NR_148357 | **LOC102725121** | DEAD/H-box helicase 11 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.150 |
| 102725140 | XR_922232 | **LMX1A-AS1** | LMX1A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725148 | XR_935615,XR_935 | **LOC102725148** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725159 | XR_940032 | **LOC102725159** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725165 | XR_931989 | **LOC102725165** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725168 | XR_933709,XR_933 | **LOC102725168** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725176 | XR_936005,XR_936 | **LINC01595** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725180 | XM_017027551,XR_ | **LOC102725180** | collagen alpha-1(VII) cha | protein_coding | 0 | 0 | 1 | 1 | 0.918 |
| 102725191 | NR_136261,NR_136 | **LOC102725191** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725193 | NR_146199,NR_146 | **CAMTA1-AS2** | CAMTA1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725201 | XR_001754583,XR_ | **CEP250-AS1** | CEP250 antisense RNA 1 | lncRNA | 12 | 6 | 13 | 7 | 0.560 |
| 102725220 | XR_939055,XR_939 | **LOC102725220** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725227 | XR_935311 | **LOC102725227** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725228 | XR_944296 | **LOC102725228** | uncharacterized LOC102 | lncRNA | 4 | 5 | 5 | 6 | 1.072 |
| 102725231 | XR_001743043,XR_ | **LOC102725231** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725238 | XR_001752890,XR_ | **LOC102725238** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725254 | NR_134910 | **LOC102725254** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725258 | XR_001749117,XR_ | **LOC102725258** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 102725509 | NR_110731 | **LINC01232** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.364 |
| 102725532 | XR_001756092 | **LOC102725532** | uncharacterized LOC102 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102725541 | NR_110426 | **ELDR** | EGFR long non-coding c | lncRNA | 0 | 0 | 1 | 1 | 0.845 |
| 102800310 | NR_110457 | **HAGLROS** | HAGLR opposite strand l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102800314 | NR_110497 | **MIR7515HG** | MIR7515 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102800315 | NR_110498,NR_110 | **LINC01246** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102800316 | NR_110525 | **LINC01222** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 102800317 | NM_001289912 | **TPTEP2-CSNK1E** | TPTEP2-CSNK1E readth | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 102800446 | NR_110643 | **LINC01230** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102800447 | NR_110564 | **LINC01828** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 102929163 | gene-LOC10292916 | **LOC102929163** | ADP ribosylation factor li | pseudogene | 0 | 0 | 1 | 1 | 1.049 |
| 103021164 | NR_117099 | **CASC21** | cancer susceptibility 21 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103021165 | NR_120364 | **CASC19** | cancer susceptibility 19 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103021294 | NR_131907 | **ABALON** | apoptotic BCL2L1-antise | lncRNA | 4 | 4 | 5 | 5 | 0.908 |
| 103021295 | NR_110982 | **LOC103021295** | uncharacterized LOC103 | lncRNA | 15 | 13 | 16 | 14 | 0.868 |
| 103021296 | NR_110983,NR_110 | **SLC26A9-AS1** | SLC26A9 and RAB7B an | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103091863 | gene-NDUFA5P8 | **NDUFA5P8** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 103091864 | NR_117096 | **SNHG22** | small nucleolar RNA hos | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103091865 | NR_111942 | **BRWD1-AS2** | BRWD1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.068 |
| 103091866 | NR_111954,NR_111 | **LINC01145** | long intergenic non-prote | lncRNA | 6 | 6 | 7 | 7 | 1.102 |
| 103106903 | NR_120347 | **LINC01276** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103156999 | gene-LOC10315699 | **LOC103156999** | dynein light chain Tctex-t | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 103157000 | NR_117094 | **PAUPAR** | PAX6 upstream antisens | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103164619 | NR_119373 | **PCAT2** | prostate cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103171574 | NR_120379 | **LOC103171574** | uncharacterized LOC103 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103191607 | NR_120400 | **LINC02333** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103283057 | NR_147074 | **LINC01362** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103312105 | NR_120554,NR_120 | **LINC02759** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103344718 | NM_001293171 | **HOTS** | H19 opposite tumor supp | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 103344926 | NR_120606 | **LINCR-0002** | uncharacterized LincR-0 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103344928 | NR_145481 | **KIAA1614-AS1** | KIAA1614 antisense RNA | lncRNA | 6 | 7 | 7 | 8 | 1.100 |
| 103344929 | NR_121648 | **BGLT3** | beta globin locus transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103344930 | NR_121649 | **LINC01391** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103344931 | NR_120684 | **LOC103344931** | uncharacterized LOC103 | lncRNA | 2 | 2 | 3 | 3 | 1.022 |
| 103344932 | NR_121185,NR_121 | **PGM5P4-AS1** | PGM5P4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.877 |
| 103352539 | NR_121647 | **LINC01410** | long intergenic non-prote | lncRNA | 2 | 3 | 3 | 4 | 1.053 |
| 103352541 | NR_121624 | **LOC103352541** | uncharacterized LOC103 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103352670 | NR_122034 | **LINC01419** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103456507 | XR_001749887,XR_ | **LINC01442** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504726 | NR_128712,rna-MIR | **MIR3670-3** | microRNA 3670-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504727 | NR_128715,rna-MIR | **MIR6724-2** | microRNA 6724-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504729 | NR_128709,rna-MIR | **MIR3179-4** | microRNA 3179-4 | miRNA | 0 | 0 | 1 | 1 | 0.974 |
| 103504730 | NR_128707,rna-MIR | **MIR9500** | microRNA 9500 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504731 | NR_128711,rna-MIR | **MIR3648-2** | microRNA 3648-2 | miRNA | 0 | 0 | 1 | 1 | 0.957 |
| 103504732 | NR_128719,rna-MIR | **MIR941-5** | microRNA 941-5 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504733 | NR_128717,rna-MIR | **MIR6724-4** | microRNA 6724-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 103504734 | NR_128710,rna-MIF | **MIR1244-4** | microRNA 1244-4 | miRNA | 2 | 3 | 3 | 4 | 1.210 |
| 103504735 | NR_128708,rna-MIF | **MIR548BB** | microRNA 548bb | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504736 | NR_128718,rna-MIF | **MIR8069-2** | microRNA 8069-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504737 | NR_130470,rna-MIF | **MIR8485** | hsa-miR-8485 | . | 0 | 0 | 1 | 1 | 1.000 |
| 103504738 | NR_128720,rna-MIF | **MIR6859-4** | hsa-miR-6859-3p | . | 2 | 3 | 3 | 4 | 1.068 |
| 103504739 | NR_128716,rna-MIF | **MIR6724-3** | microRNA 6724-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504740 | NR_128713,rna-MIF | **MIR3670-4** | microRNA 3670-4 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103504741 | NR_128721,rna-MIF | **MIR5701-3** | microRNA 5701-3 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103581031 | NR_125366 | **CASC23** | cancer susceptibility 23 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103611157 | NR_125715 | **TGFB2-OT1** | TGFB2 overlapping trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103625681 | NR_125724 | **LLPH-DT** | LLPH divergent transcrip | lncRNA | 3 | 2 | 4 | 3 | 0.763 |
| 103625683 | NR_125725 | **LINC00456** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103625684 | NR_125730 | **RNU6-2** | RNA, U6 small nuclear 2 | snRNA | 19 | 20 | 20 | 21 | 1.068 |
| 103689843 | NR_125745 | **LINC01046** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689844 | NR_125746 | **LINC01288** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689845 | NR_125747 | **LINC01050** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689846 | NR_125748 | **ADAMTS19-AS1** | ADAMTS19 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689911 | NR_125777 | **CATIP-AS2** | CATIP antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689912 | NR_125749,NR_125 | **TBX2-AS1** | TBX2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689913 | NR_125752 | **LINC00383** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.601 |
| 103689914 | gene-LOC10368991 | **LOC103689914** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 1 | 1 | 2 | 1.504 |
| 103689915 | NR_125753 | **DLEU1-AS1** | DLEU1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103689916 | gene-LOC10368991 | **LOC103689916** | coiled-coil-helix-coiled-cc | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 103689917 | NR_125754 | **LINC01337** | long intergenic non-prote | lncRNA | 3 | 1 | 4 | 2 | 0.451 |
| 103689918 | NR_125757 | **LINC01378** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695363 | NR_125758 | **FOXG1-AS1** | FOXG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695364 | NR_125759 | **PKNOX2-AS1** | PKNOX2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695365 | NR_125760 | **LINC01435** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695366 | NR_125761 | **LINC01461** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.211 |
| 103695431 | NR_125762 | **LINC01048** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695432 | NR_125763 | **LINC01167** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695433 | NR_125764 | **LINC01322** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695434 | NR_125765 | **LINC01396** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695435 | NR_125766,NR_125 | **BBOX1-AS1** | BBOX1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103695436 | NR_125769 | **LINC01269** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103724386 | NR_125770 | **LINC00377** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103724387 | NR_125771 | **LINC01058** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103724388 | NR_125772 | **LINC01068** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 103724389 | NR_125774 | **LINC01170** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.866 |
| 103724390 | NR_125776 | **LINC01287** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752554 | NR_125783 | **MYCNUT** | MYCN upstream transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752555 | NR_125784 | **SPATA17-AS1** | SPATA17 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752581 | NR_125786 | **LINC01055** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752583 | NR_125787 | **LINC01075** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752584 | NR_125790,NR_125 | **CCND2-AS1** | CCND2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 103752585 | NR_125791 | **RORB-AS1** | RORB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752586 | NR_125793 | **BIRC6-AS2** | BIRC6 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752587 | NR_125795 | **FOXC2-AS1** | FOXC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752588 | NR_125801 | **PACERR** | PTGS2 antisense NFKB: | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103752589 | NR_125805 | **TMEM92-AS1** | TMEM92 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103908604 | NR_147619 | **LOC103908604** | uncharacterized LOC103 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 103908605 | NR_126050 | **LOC103908605** | uncharacterized LOC103 | lncRNA | 0 | 0 | 1 | 1 | 1.154 |
| 104054148 | NR_126152 | **LOC104054148** | uncharacterized LOC104 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104169670 | NR_126167 | **RXYLT1-AS1** | RXYLT1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104169671 | NR_126347 | **LINC01036** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266956 | NR_126345 | **LINC01044** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266957 | NR_126346 | **KBTBD11-OT1** | KBTBD11 overlapping tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266958 | NR_126348 | **LINC01151** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266959 | NR_126349 | **LINC01195** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266960 | NR_126350 | **LINC01201** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266961 | NR_126351 | **LINC01221** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104266963 | NR_126352 | **LINC01264** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104310350 | NR_126353 | **LINC01327** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104310351 | NR_126354 | **LINC01331** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104310353 | NR_126356 | **LINC01399** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.604 |
| 104326051 | NR_126358 | **MAFA-AS1** | MAFA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326052 | NR_126359 | **NRIR** | negative regulator of inte | lncRNA | 1 | 0 | 2 | 1 | 0.793 |
| 104326053 | NR_126360 | **LINC00363** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326054 | NR_126361 | **LINC00399** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326055 | NR_126362 | **APOA1-AS** | APOA1 antisense RNA | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326057 | NR_126369,NR_126 | **GACAT1** | gastric cancer associatec | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326058 | NR_126371 | **SMAD1-AS1** | SMAD1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326188 | NR_126372 | **LINC01202** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326189 | NR_126373 | **LMO7DN-IT1** | LMO7DN intronic transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326190 | NR_126374 | **LINC01309** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104326193 | NR_126376 | **DLX2-DT** | DLX2 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355135 | NR_126378 | **LINC00431** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.712 |
| 104355136 | NR_126379 | **LINC01033** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355137 | NR_126380 | **LINC01072** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355138 | NR_126381 | **LINC01162** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355139 | NR_126382 | **LINC01397** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.808 |
| 104355140 | NR_126383 | **LINC00375** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355141 | NR_126384 | **LINC01143** | long intergenic non-prote | lncRNA | 3 | 3 | 4 | 4 | 0.902 |
| 104355143 | NR_126385 | **TXNDC12-AS1** | TXNDC12 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355145 | NR_126386 | **NCOA7-AS1** | NCOA7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355146 | NR_126387 | **LINC00396** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355147 | NR_126388,NR_126 | **LINC00428** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355149 | NR_126390 | **LINC01039** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.025 |
| 104355150 | NR_126391 | **LINC01054** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355152 | NR_126396 | **LINC01090** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355218 | NR_126397 | **LINC01177** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355219 | NR_126425 | **LHX5-AS1** | LHX5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355220 | NR_126400 | **LINC01219** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355285 | NR_126401 | **LINC01256** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355286 | NR_126402 | **LINC01307** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355287 | NR_126403 | **LINC01317** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355288 | NR_126404 | **LINC01320** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355289 | NR_126405 | **LINC01324** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355290 | NR_126406 | **MIR217HG** | MIR217 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355291 | NR_126407 | **LINC01392** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355292 | NR_126408 | **LINC01525** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355293 | NR_126409 | **LINC00376** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355294 | NR_126410 | **LINC01386** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355295 | NR_126411 | **SGMS1-AS1** | SGMS1 antisense RNA 1 | lncRNA | 1 | 0 | 2 | 1 | 0.860 |
| 104355296 | NR_126412,NR_126 | **SCEL-AS1** | SCEL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355297 | NR_126414 | **ABCA9-AS1** | ABCA9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104355426 | NR_126418 | **LENG8-AS1** | LENG8 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.007 |
| 104384744 | NR_126420 | **TET2-AS1** | TET2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104413890 | NR_126422 | **ZBTB20-AS3** | ZBTB20 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104413891 | NR_126423 | **SAPCD1-AS1** | SAPCD1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104413892 | NR_126424 | **F10-AS1** | F10 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472519 | NR_126434 | **STX18-IT1** | STX18 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472713 | NR_126437,NR_126 | **PCAT29** | prostate cancer associat | lncRNA | 24 | 24 | 25 | 25 | 0.977 |
| 104472714 | NR_126441 | **DISC1-IT1** | DISC1 intronic transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472715 | NR_146177 | **SNHG14** | small nucleolar RNA hos | lncRNA | 5 | 4 | 6 | 5 | 0.867 |
| 104472716 | NR_126447 | **WARS2-IT1** | WARS2 intronic transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472717 | NR_126448,NR_126 | **LINC01224** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472718 | NR_126452 | **LINC00508** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104472848 | NR_126453 | **IRAIN** | IGF1R antisense imprint | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104502416 | NR_126463 | **FOXP1-AS1** | FOXP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104502417 | NR_126469 | **MGAT3-AS1** | MGAT3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104533120 | NR_126470 | **TRIM31-AS1** | TRIM31 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104548971 | NR_126480 | **SALRNA1** | senescence associated l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104548972 | NR_126481 | **SALRNA3** | senescence associated l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104548973 | NR_126482 | **SALRNA2** | senescence associated l | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104564224 | NR_126487 | **LUNAR1** | leukemia-associated non | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 104564225 | NR_126491 | **MHRT** | myosin heavy chain assc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104613533 | NR_126501 | **LOC104613533** | uncharacterized LOC104 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104644205 | NR_130771,NR_13( | **ENPP7P13** | ectonucleotide pyrophos | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 104797536 | NR_126557 | **LINC01402** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104797537 | NR_126559 | **GACAT3** | gastric cancer associatec | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104797538 | NR_126560,NR_12( | **KCNMB2-AS1** | KCNMB2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104798195 | NR_126564 | **GS1-594A7.3** | uncharacterized LOC104 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 104909134 | NM_001256299,NM | **LINC02210-CRHR1** | LINC02210-CRHR1 read | protein_coding | 0 | 0 | 1 | 1 | 0.999 |
| 104968399 | NR_130143,NR_13( | **LOC104968399** | uncharacterized LOC104 | lncRNA | 0 | 0 | 1 | 1 | 0.818 |
| 105180390 | NM_001382563 | **SPDYE13** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105180391 | NM_001382547 | **SPDYE15** | speedy/RINGO cell cycle | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105221694 | NR_130765,NR_13( | **BISPR** | BST2 interferon stimulate | lncRNA | 28 | 23 | 29 | 24 | 0.832 |
| 105274304 | NR_130916 | **LOC105274304** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.743 |
| 105369140 | NR_160528,NR_16( | **LOC105369140** | NBPF member 6 pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105369143 | XR_001739797 | **LOC105369143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369146 | NR_136264 | **LOC105369146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369147 | NR_148213,NR_14( | **LOC105369147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 105369149 | XR_001748470,XR_ | **LOC105369149** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369150 | XR_001748211,XR_ | **LINC02750** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369151 | XR_931426 | **LOC105369151** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.015 |
| 105369154 | NR_123722 | **PKD1P6-NPIPP1** | PKD1P6-NPIPP1 readth | transcribed_pseu | 12 | 12 | 13 | 13 | 0.999 |
| 105369161 | XR_938320 | **LOC105369161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 105369164 | XR_001739341,XR_ | **LOC105369164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.956 |
| 105369165 | XR_001739464,XR_ | **LOC105369165** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369167 | XR_940196,XR_940 | **LOC105369167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369168 | XR_002959400,XR_ | **LOC105369168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369171 | XR_943200 | **LOC105369171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369176 | XM_011543080 | **LOC105369176** | putative tripartite motif-co | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369177 | XR_001742458,XR_ | **LOC105369177** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369180 | XR_949578 | **LOC105369180** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 105369182 | XR_950960 | **LOC105369182** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369183 | XR_001752118,XR_ | **LOC105369183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369187 | NR_135033 | **LOC105369187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369192 | NR_134236,NR_13( | **PPM1K-DT** | PPM1K divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369194 | XR_001740871,XR_ | **LOC105369194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369199 | NR_160532,NR_16( | **LOC105369199** | NBPF member 6 pseudo | transcribed_pseu | 0 | 0 | 1 | 1 | 1.014 |
| 105369201 | NR_160702,NR_16( | **LOC105369201** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369202 | XR_936354 | **LOC105369202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369203 | XR_002957694,XR_ | **LOC105369203** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369209 | NR_160555 | **LOC105369209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369212 | NR_158193 | **LOC105369212** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369214 | XM_011514190 | **LOC105369214** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 105369219 | NR_164369 | **SIRPB3P** | signal regulatory protein | transcribed_pseu | 0 | 0 | 1 | 1 | 1.340 |
| 105369220 | gene-LOC10536922 | **LOC105369220** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369222 | gene-ILRUNP1 | **ILRUNP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369225 | XR_001752909,XR_ | **LOC105369225** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.673 |
| 105369228 | XR_001742417 | **LOC105369228** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.930 |
| 105369246 | XM_011523514 | **LOC105369246** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369249 | XR_929633 | **LOC105369249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369250 | XR_001741577,XR_ | **LOC105369250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369266 | NR_158162 | **LOC105369266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369274 | NM_001365389 | **LOC105369274** | olfactory receptor 4N4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369289 | XR_929529 | **LOC105369289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369292 | XR_937592 | **LOC105369292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369293 | XR_001746429,XR_ | **LOC105369293** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369294 | XR_001755058,XR_ | **LOC105369294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369295 | XR_001755022,XR_ | **SETD4-AS1** | SETD4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369297 | XR_950938,XR_950 | **LOC105369297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369298 | XR_929517 | **LOC105369298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369299 | XR_937652 | **LOC105369299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.874 |
| 105369301 | XR_001755024,XR_ | **LOC105369301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.062 |
| 105369302 | XR_001754972,XR_ | **LOC105369302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369304 | XR_001754958,XR_ | **LOC105369304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.030 |
| 105369305 | XR_937700 | **LOC105369305** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369306 | NR_147887 | **LOC105369306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369308 | XR_001755027 | **LOC105369308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369309 | XR_001748217,XR_ | **LOC105369309** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369310 | XR_950121 | **LOC105369310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369312 | XR_950123 | **LOC105369312** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 105369313 | XR_001748219 | **LOC105369313** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.820 |
| 105369315 | XR_001748220,XR_ | **LOC105369315** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 105369317 | XR_001748231,XR_ | **LINC02739** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369318 | XR_950140 | **LOC105369318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.151 |
| 105369319 | XR_950141,XR_950 | **LINC02705** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369320 | XR_950145 | **LOC105369320** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369321 | XR_001748239,XR_ | **LOC105369321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369322 | XR_001748241,XR_ | **LOC105369322** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.204 |
| 105369323 | XR_950150 | **LOC105369323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369325 | XR_950153,XR_950 | **LOC105369325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 105369326 | XR_950155 | **LOC105369326** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369329 | XR_002957248,XR_ | **LOC105369329** | uncharacterized LOC105 | lncRNA | 11 | 13 | 12 | 14 | 1.114 |
| 105369331 | XR_001748243,XR_ | **LOC105369331** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369332 | NR_135084 | **LOC105369332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369333 | XR_002957251 | **LOC105369333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369334 | XR_950178 | **LOC105369334** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369335 | XR_950179 | **LOC105369335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369339 | XR_950186,XR_950 | **LOC105369339** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.374 |
| 105369340 | NR_135086,NR_13( | **PPP1R14B-AS1** | PPP1R14B antisense RN | lncRNA | 1 | 2 | 2 | 3 | 1.119 |
| 105369341 | XR_001748069,XR_ | **LOC105369341** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369343 | NR_133638,NR_13( | **MIR194-2HG** | MIR194-2 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369344 | XR_001748261,XR_ | **LOC105369344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 105369346 | XR_950206 | **LINC02736** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369347 | XR_001748269,XR_ | **RELA-DT** | RELA divergent transcrip | lncRNA | 1 | 1 | 2 | 2 | 1.066 |
| 105369349 | XR_950211 | **LOC105369349** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.664 |
| 105369350 | XR_950212 | **LOC105369350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369351 | XR_950213 | **LOC105369351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369352 | XR_001748271,XR_ | **LOC105369352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.089 |
| 105369354 | XR_950219 | **LOC105369354** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369355 | XR_950230 | **LOC105369355** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369358 | XR_001748277 | **LOC105369358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369359 | gene-LOC1053693! | **LOC105369359** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369360 | XR_001748275,XR_ | **LINC02754** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369362 | XR_950242,XR_950 | **LOC105369362** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369363 | XR_001748279,XR_ | **LOC105369363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369364 | XR_950253 | **LINC02701** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369366 | XR_950255,XR_950 | **LOC105369366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369367 | XR_950257,XR_950 | **LOC105369367** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.034 |
| 105369368 | XR_001748070 | **LOC105369368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369370 | XR_950269 | **LOC105369370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369371 | XR_950274 | **LOC105369371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369372 | XR_950278 | **LOC105369372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369373 | XR_950279 | **LOC105369373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369376 | XR_950284 | **LOC105369376** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369377 | XR_001748292 | **LOC105369377** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369378 | XR_001748291,XR_ | **PDE2A-AS2** | PDE2A antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369379 | XR_001748293,XR_ | **PDE2A-AS1** | PDE2A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369380 | XR_001748492,XR_ | **LOC105369380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.850 |
| 105369381 | XR_001748495,XR_ | **LOC105369381** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369382 | XR_950296 | **LOC105369382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369383 | XR_950297 | **LOC105369383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.018 |
| 105369386 | XR_950302 | **LOC105369386** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369388 | XR_001748296,XR_ | **LOC105369388** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369389 | XR_001748298,XR_ | **LOC105369389** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369391 | NR_145823 | **LOC105369391** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369392 | XR_950316 | **LOC105369392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369393 | XR_950317 | **LOC105369393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105369395 | XR_950328,XR_950 | **LOC105369395** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369397 | XR_950336,XR_950 | **LOC105369397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369399 | XR_950340 | **LOC105369399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369400 | XR_950341 | **LOC105369400** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369401 | XR_950342 | **LOC105369401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369402 | XR_950343 | **LOC105369402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369403 | XR_001748314 | **LOC105369403** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369405 | XR_950347 | **LOC105369405** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369406 | XR_950348,XR_950 | **LOC105369406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369408 | XR_950354 | **LOC105369408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369409 | XR_001748502 | **LOC105369409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369410 | XR_950358 | **LOC105369410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369413 | XR_950361,XR_950 | **LINC02734** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369416 | XR_001748522 | **LOC105369416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369420 | XR_950379 | **LOC105369420** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369421 | XR_001748531 | **LOC105369421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369422 | XR_950390 | **LOC105369422** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369423 | NR_135090 | **LINC02711** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369427 | XR_947881 | **LINC02748** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369428 | XR_001748324,XR_ | **LINC02756** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369429 | XR_947892,XR_947 | **LOC105369429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369431 | NR_135091 | **LINC02746** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369435 | XR_947901,XR_947 | **LOC105369435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 105369436 | XR_947905,XR_947 | **LINC02700** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369438 | NR_135093,NR_135 | **LOC105369438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369439 | XR_001748075,XR_ | **LOC105369439** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369440 | XR_001748336 | **LOC105369440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369441 | XR_947931 | **LOC105369441** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369443 | NR_135097 | **LINC02737** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369446 | gene-TOMM20P1 | **TOMM20P1** | TOMM20 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369448 | XR_001748338 | **LOC105369448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369450 | XR_947939 | **LOC105369450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369451 | XR_947940 | **LOC105369451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369452 | XR_947941 | **LOC105369452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369453 | XR_947942 | **LOC105369453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369454 | XR_001748076,XR_ | **LINC02713** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369455 | XR_947946 | **LOC105369455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369456 | XR_947948 | **LOC105369456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369457 | XR_947949 | **LOC105369457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369458 | XR_947951,XR_947 | **LOC105369458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369460 | XR_002957262 | **LOC105369460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369463 | XR_001748343 | **LOC105369463** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369464 | XR_001748347,XR_ | **LOC105369464** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369466 | XR_947965 | **LOC105369466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369468 | XR_001748356,XR_ | **LOC105369468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369469 | XR_001748353,XR_ | **LOC105369469** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369473 | NR_135099 | **LINC02719** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369474 | XR_947985 | **LOC105369474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369475 | XR_947986 | **LOC105369475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369477 | XR_001748363,XR_ | **LOC105369477** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.884 |
| 105369482 | XR_001748368,XR_ | **LINC02715** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369483 | XR_948003 | **LOC105369483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369484 | XR_948004 | **LOC105369484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369486 | NR_135100 | **LINC02732** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369487 | XR_001748379 | **LOC105369487** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369488 | XR_948008 | **LOC105369488** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369489 | XR_948009 | **LOC105369489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369490 | NR_149131 | **LINC02550** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369491 | XR_948011 | **LOC105369491** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369496 | XR_948016,XR_948 | **LOC105369496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369498 | XR_948020 | **LOC105369498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 105369501 | XR_948024 | **LOC105369501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369504 | XR_948035,XR_948 | **LOC105369504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369505 | XR_948040,XR_948 | **LOC105369505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369506 | XR_948042 | **LOC105369506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369507 | NR_135102,NR_135 | **LOC105369507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369509 | NR_135108 | **LOC105369509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369511 | XR_948048 | **LOC105369511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369512 | XR_001748394,XR_ | **LINC02698** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369513 | XR_001748401,XR_ | **LOC105369513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369515 | XR_948060 | **LOC105369515** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369517 | XR_001748406,XR_ | **LOC105369517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369519 | XR_001748408,XR_ | **LOC105369519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369520 | XR_001748413 | **LOC105369520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369525 | XR_948077 | **NECTIN1-AS1** | NECTIN1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369526 | XR_948080,XR_948 | **LOC105369526** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369527 | XR_948084,XR_948 | **LOC105369527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369528 | XR_002957267,XR_ | **LINC02744** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369529 | XR_948100 | **LOC105369529** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369530 | XR_948101 | **LOC105369530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369531 | XR_001748417,XR_ | **LOC105369531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369532 | NR_133008 | **LOC105369532** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369533 | XR_948108 | **LOC105369533** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369534 | XR_948109 | **LOC105369534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369535 | XM_017018646,XM_ | **LOC105369535** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.077 |
| 105369536 | XR_001748420,XR_ | **LOC105369536** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369539 | XR_948114,XR_948 | **LOC105369539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369540 | XR_948116 | **LOC105369540** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369541 | XR_948118,XR_948 | **LINC02727** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369543 | XR_948124 | **LOC105369543** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369544 | XR_948125,XR_948 | **LOC105369544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369545 | XR_948127 | **LOC105369545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369547 | XR_948132,XR_948 | **CCDC15-DT** | CCDC15 divergent trans | lncRNA | 1 | 1 | 2 | 2 | 0.906 |
| 105369549 | XR_001748430,XR_ | **LOC105369549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369550 | NR_132372 | **STT3A-AS1** | STT3A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369551 | XR_948140 | **LOC105369551** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.024 |
| 105369552 | XR_948141 | **LOC105369552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369557 | XR_948146 | **HP11014** | uncharacterized HP1101 | lncRNA | 0 | 0 | 1 | 1 | 0.943 |
| 105369558 | XR_948147 | **LOC105369558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369559 | XR_001748433,XR_ | **LOC105369559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369561 | XR_001748437,XR_ | **LOC105369561** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369562 | XR_001748079 | **LOC105369562** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369563 | XR_001748439 | **LINC02725** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369564 | NR_146647 | **LINC02098** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369565 | XR_948162,XR_948 | **LOC105369565** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369568 | XR_001748441,XR_ | **LOC105369568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369571 | XR_948174 | **LOC105369571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369572 | XR_948175 | **LOC105369572** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369574 | XR_001748451,XR_ | **LOC105369574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369575 | XR_001748457 | **LOC105369575** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 105369576 | XR_001748458,XR_ | **LOC105369576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369577 | XR_948198,XR_948 | **LOC105369577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369578 | XR_001748462,XR_ | **LOC105369578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369579 | XR_001748461,XR_ | **LOC105369579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369580 | XR_948205,XR_948 | **LOC105369580** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369583 | XR_948212 | **LOC105369583** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369584 | XR_948213 | **LINC02706** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369586 | XR_948216 | **LINC02697** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369587 | XR_001748469,XR_ | **LOC105369587** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369588 | XR_948218,XR_948 | **LINC02717** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369589 | XR_002957215,XR_ | **LINC02684** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369591 | XM_017018655,XM_ | **LOC105369591** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369592 | XR_001748948,XR_ | **LOC105369592** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369593 | XR_931533 | **LOC105369593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369594 | XR_001748949 | **LOC105369594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369595 | NR_134624 | **LOC105369595** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105369597 | XR_001748952,XR_ | **LINC02455** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.864 |
| 105369601 | XR_001748953,XR_ | **LOC105369601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105369602 | XR_931547,XR_931 | **LOC105369602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105369606 | XR_001748962,XR_ | **LINC02827** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369607 | XR_931556 | **LOC105369607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369608 | XR_001748965,XR_ | **LOC105369608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369609 | XR_931560,XR_931 | **PARP11-AS1** | PARP11 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369611 | XR_931567,XR_931 | **LOC105369611** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369612 | XR_931569,XR_931 | **LOC105369612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369614 | XR_001748966 | **LOC105369614** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 1.028 |
| 105369616 | XR_931575 | **LOC105369616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369617 | XR_001748970,XR_ | **LOC105369617** | uncharacterized LOC105 | lncRNA | 1 | 3 | 2 | 4 | 1.484 |
| 105369618 | XR_001748971,XR_ | **LOC105369618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.841 |
| 105369621 | XR_001748974,XR_ | **LOC105369621** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369622 | XR_931587 | **LOC105369622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369623 | XR_931588 | **LOC105369623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369624 | XR_931589 | **LOC105369624** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369625 | XR_001748976,XR_ | **LOC105369625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369626 | XR_931590,XR_931 | **LOC105369626** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369631 | XR_001748985,XR_ | **LOC105369631** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369632 | NR_135083 | **LOC105369632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369634 | XR_931601 | **LOC105369634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369635 | NR_135032 | **MIR200CHG** | MIR200C and MIR141 ho | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369645 | XR_001748989,XR_ | **LOC105369645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369647 | XR_001748994,XR_ | **LOC105369647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369649 | XR_002957400 | **LOC105369649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369652 | XR_931347 | **LINC02390** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.735 |
| 105369655 | XR_931351,XR_931 | **LOC105369655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369656 | XR_001749002,XR_ | **LOC105369656** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.702 |
| 105369657 | XR_001749003,XR_ | **LOC105369657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 105369658 | XR_001749004 | **LOC105369658** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369663 | XR_931366 | **LOC105369663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105369666 | XR_931369 | **LOC105369666** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369667 | XR_001749014,XR_ | **LOC105369667** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369668 | XR_001749013,XR_ | **LOC105369668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369669 | XM_011520896 | **LOC105369669** | uncharacterized LOC105 | protein_coding | 1 | 1 | 2 | 2 | 1.172 |
| 105369670 | XR_931376 | **LOC105369670** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369672 | XR_002957403 | **LOC105369672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369673 | XR_001749020,XR_ | **LOC105369673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369677 | XR_931397 | **LOC105369677** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369678 | NR_146522 | **LINC02378** | long intergenic non-prote | lncRNA | 2 | 0 | 3 | 1 | 0.527 |
| 105369682 | XR_931409 | **LOC105369682** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369684 | NR_146523 | **LINC02468** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369685 | XR_001749038,XR_ | **LOC105369685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369686 | XR_931417 | **LOC105369686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369687 | XR_001749039,XR_ | **LOC105369687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369688 | XR_931419 | **LOC105369688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369689 | XR_931420,XR_931 | **LOC105369689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369690 | XR_931423,XR_931 | **LOC105369690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369691 | NR_135030,NR_135 | **LOC105369691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.180 |
| 105369692 | XR_001749044 | **LOC105369692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369696 | XR_001749446 | **LOC105369696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369697 | XR_001749445 | **LOC105369697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369698 | XR_001749046 | **LOC105369698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369699 | XR_001749047,XR_ | **LOC105369699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369701 | XR_931444,XR_931 | **LOC105369701** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369704 | XR_931449 | **LOC105369704** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369705 | XR_001749052,XR_ | **LOC105369705** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369706 | XR_001749055,XR_ | **LOC105369706** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369709 | XR_001749449,XR_ | **LOC105369709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369710 | XR_931461,XR_931 | **LOC105369710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369711 | XR_931466,XR_931 | **LOC105369711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369714 | XR_931471,XR_931 | **LOC105369714** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369715 | XR_001749060,XR_ | **LOC105369715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369716 | XR_931477 | **LOC105369716** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369717 | XR_931478,XR_931 | **LINC02386** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369718 | XR_931482 | **LOC105369718** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369719 | XR_001749067,XR_ | **LOC105369719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369720 | XR_001749072,XR_ | **LOC105369720** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 105369722 | XR_931497 | **LOC105369722** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369723 | NR_135029 | **LINC02422** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.862 |
| 105369724 | XR_001749077,XR_ | **LOC105369724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369725 | XR_931503 | **LOC105369725** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.742 |
| 105369726 | XR_931504 | **LOC105369726** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369728 | NR_157802 | **LOC105369728** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369730 | XR_944853 | **LINC02406** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369734 | NR_146526 | **LINC02471** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369735 | XR_944865 | **LOC105369735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369736 | XR_001749087,XR_ | **LOC105369736** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369738 | NR_135026,NR_135 | **LINC02451** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369739 | NR_135028 | **LINC02450** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369740 | NR_146866 | **LINC02461** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369742 | XR_944885 | **LOC105369742** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369743 | XR_001749096,XR_ | **LOC105369743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369744 | XR_944889 | **LOC105369744** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369745 | XR_001749098,XR_ | **LOC105369745** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369746 | XR_944896 | **LOC105369746** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369747 | NR_135024 | **LOC105369747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369748 | XR_001749110,XR_ | **LOC105369748** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.097 |
| 105369750 | XR_001749115,XR_ | **LOC105369750** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369752 | XR_944910 | **LOC105369752** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369753 | XR_944923 | **LOC105369753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369755 | XR_944925 | **LOC105369755** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.551 |
| 105369756 | XR_944926 | **LOC105369756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369757 | XR_944927,XR_944 | **LOC105369757** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369758 | NR_147178,NR_147 | **DDN-AS1** | DDN and PRKAG1 antise | lncRNA | 0 | 0 | 1 | 1 | 1.077 |
| 105369759 | XR_001749126,XR_ | **LOC105369759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369760 | XR_944935,XR_944 | **LOC105369760** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.994 |
| 105369761 | XR_944937 | **LOC105369761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369763 | XR_001749129,XR_ | **LOC105369763** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369764 | XR_001749143,XR_ | **LOC105369764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.231 |
| 105369767 | XR_944957 | **LOC105369767** | uncharacterized LOC105 | lncRNA | 8 | 8 | 9 | 9 | 0.929 |
| 105369768 | XR_944958 | **LOC105369768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369771 | XR_001749149,XR_ | **LOC105369771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369772 | XR_944963,XR_944 | **LOC105369772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 105369774 | XR_944967,XR_944 | **LOC105369774** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369775 | XR_944977 | **LOC105369775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369776 | XR_944980 | **SMUG1-AS1** | SMUG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369777 | XR_944983,XR_944 | **LOC105369777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369778 | gene-LOC10536977 | **LOC105369778** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369779 | XR_944987 | **LOC105369779** | uncharacterized LOC105 | lncRNA | 7 | 7 | 8 | 8 | 0.928 |
| 105369780 | XR_944989,XR_944 | **LOC105369780** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369781 | NR_135023 | **LOC105369781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369782 | XR_944995 | **LOC105369782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369783 | XR_001749165 | **LOC105369783** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.035 |
| 105369784 | XR_001749166,XR_ | **LOC105369784** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369785 | NR_135022 | **LINC02403** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369786 | XR_945004 | **LOC105369786** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369787 | XR_945005 | **LOC105369787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369788 | XR_945006 | **LOC105369788** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369789 | XR_945007 | **LOC105369789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369791 | XR_001749167,XR_ | **LOC105369791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369792 | XR_945011,XR_945 | **LINC02448** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369793 | XR_945013 | **LOC105369793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369795 | XR_945015,XR_945 | **LOC105369795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369797 | XR_945017 | **LOC105369797** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105369798 | XR_945018 | **LOC105369798** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369801 | XR_001749172,XR_ | **LOC105369801** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369803 | XR_002957417,XR_ | **LOC105369803** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369804 | XR_945027 | **LOC105369804** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369806 | XR_945028 | **LOC105369806** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369807 | NR_146529 | **LINC02454** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369808 | XR_001749180,XR_ | **LOC105369808** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369809 | XR_945036,XR_945 | **LOC105369809** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369810 | NR_146530 | **LINC02425** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369811 | XR_001749185,XR_ | **LOC105369811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369812 | XR_001749186,XR_ | **LOC105369812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369813 | XR_001749187,XR_ | **LOC105369813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369815 | XR_945050 | **LINC02442** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369816 | XR_001749188,XR_ | **LOC105369816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.931 |
| 105369818 | XR_001749193,XR_ | **LOC105369818** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369819 | XR_945057 | **LOC105369819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.862 |
| 105369820 | XR_001749194,XR_ | **LOC105369820** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.910 |
| 105369822 | XR_001749195 | **LINC02373** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.825 |
| 105369823 | XR_001749451,XR_ | **LOC105369823** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369826 | XR_945070 | **LINC02821** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369827 | XR_001749197,XR_ | **LOC105369827** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369828 | XR_001749196,XR_ | **LOC105369828** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369831 | XR_945081 | **LOC105369831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369832 | XR_001749198,XR_ | **LOC105369832** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369833 | XR_001749200 | **LOC105369833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369838 | XR_945088,XR_945 | **LOC105369838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369839 | XR_001749104,XR_ | **LOC105369839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369840 | XR_001749109,XR_ | **LINC02445** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369841 | XR_945095 | **LINC02394** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369842 | XR_001749204,XR_ | **LOC105369842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369843 | XR_001749209,XR_ | **LOC105369843** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369844 | XR_001749214,XR_ | **LOC105369844** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.956 |
| 105369846 | XR_001749215,XR_ | **LOC105369846** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369847 | XR_001749218,XR_ | **LOC105369847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369848 | NR_146531 | **LNCOG** | lncRNA osteogenesis as | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369850 | XR_001749220,XR_ | **LOC105369850** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.577 |
| 105369851 | XR_945115 | **LOC105369851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369853 | XR_945118,XR_945 | **LOC105369853** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369854 | XR_945120,XR_945 | **LINC02464** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369855 | XR_945123 | **LOC105369855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369856 | XR_001749452 | **LOC105369856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369859 | XR_945130 | **LOC105369859** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369860 | NR_135021 | **LINC02424** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369863 | XR_001749221,XR_ | **LOC105369863** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 105369864 | XR_945137 | **LOC105369864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369865 | NR_146533,NR_146 | **PPP1R12A-AS1** | PPP1R12A antisense RN | lncRNA | 2 | 4 | 3 | 5 | 1.439 |
| 105369867 | XR_001749222 | **LOC105369867** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369869 | XM_011539062 | **LOC105369869** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369872 | XR_945148 | **LOC105369872** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369873 | XR_001749232,XR_ | **LOC105369873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369874 | XR_945150 | **LOC105369874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369875 | XR_945151 | **LOC105369875** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369876 | XR_001749236,XR_ | **LINC02820** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369877 | XR_001749240,XR_ | **LOC105369877** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369878 | XR_001749241,XR_ | **LOC105369878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369879 | NR_135020 | **LOC105369879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369880 | XR_945160 | **LOC105369880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369881 | XR_945161 | **LOC105369881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369885 | XR_945166 | **LOC105369885** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369886 | XR_945167 | **LOC105369886** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369887 | XR_945168 | **LOC105369887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369890 | XR_001749246 | **LOC105369890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369891 | NR_135019 | **LINC02399** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369892 | XR_945183 | **LOC105369892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369893 | NR_135018 | **LINC02392** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.120 |
| 105369895 | XR_945187,XR_945 | **LOC105369895** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369896 | XR_001749251 | **LOC105369896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369897 | XR_001749249,XR_ | **LINC02823** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369898 | XR_945194,XR_945 | **LOC105369898** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369900 | XR_945199,XR_945 | **LINC02404** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369901 | XR_001749253,XR_ | **LOC105369901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369902 | XR_945203 | **LOC105369902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369903 | XR_945207 | **LOC105369903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369904 | XR_001749260,XR_ | **LOC105369904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369905 | XR_001749261,XR_ | **LOC105369905** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369906 | XR_945212 | **LINC02413** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369907 | XR_945213 | **LOC105369907** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369908 | XR_945216,XR_945 | **LOC105369908** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369909 | XR_001749262 | **LOC105369909** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369911 | NR_135017 | **LOC105369911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369912 | XR_001749263,XR_ | **LOC105369912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369913 | XR_945223 | **LOC105369913** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369914 | XM_011539068,XR_ | **LOC105369914** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105369915 | XR_001749264,XR_ | **LOC105369915** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.622 |
| 105369917 | XR_001749265 | **LOC105369917** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369919 | XR_001749273 | **LOC105369919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369920 | NR_135016 | **LINC02410** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369921 | NR_135014,NR_135 | **LOC105369921** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369923 | XR_945238 | **LOC105369923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369924 | XR_945239 | **LINC02452** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369925 | XR_001749162 | **LOC105369925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369927 | XR_945248,XR_945 | **LOC105369927** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369928 | XR_945250 | **LOC105369928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369929 | XR_002957447 | **LINC02409** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369930 | XR_945255 | **LOC105369930** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369932 | XR_002957448 | **LOC105369932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369933 | XR_945258 | **LOC105369933** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369935 | XR_945260,XR_945 | **LOC105369935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369937 | XR_001749282 | **LOC105369937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369938 | XR_001749278,XR_ | **LOC105369938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369942 | XR_001749285,XR_ | **LINC02456** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 105369944 | XR_001749289 | **LOC105369944** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369945 | NR_135004 | **LOC105369945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369946 | XR_001749291,XR_ | **LOC105369946** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369947 | XR_945286 | **LOC105369947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369948 | XR_945288 | **LINC02385** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369949 | XR_001749294,XR_ | **LOC105369949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.262 |
| 105369950 | XR_945290 | **LOC105369950** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369952 | XR_945292 | **LOC105369952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369953 | XR_001749296 | **LOC105369953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369954 | NR_131986 | **KCCAT198** | renal clear cell carcinom | lncRNA | 5 | 5 | 6 | 6 | 0.859 |
| 105369955 | XR_945295 | **LOC105369955** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |
| 105369956 | XR_945297 | **LOC105369956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369957 | XR_001749297,XR_ | **LOC105369957** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.094 |
| 105369958 | XR_001749300,XR_ | **LOC105369958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.147 |
| 105369959 | XR_945309 | **LOC105369959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369960 | XR_945310 | **LOC105369960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369961 | XR_001749306 | **LOC105369961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369963 | XR_945316 | **LOC105369963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369964 | XR_945318,XR_945 | **LOC105369964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369965 | XR_001749307,XR_ | **LOC105369965** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369968 | XR_001749315,XR_ | **LOC105369968** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.839 |
| 105369969 | XR_945328 | **LOC105369969** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369971 | NR_135803 | **FIGNL2-DT** | FIGNL2 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369973 | gene-HNRNPA1P69 | **HNRNPA1P69** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105369974 | XR_945332 | **LOC105369974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105369975 | XR_945333 | **LOC105369975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369976 | XR_945334 | **LOC105369976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369980 | NR_135001,NR_13 | **LOC105369980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369981 | XR_945338,XR_945 | **LOC105369981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369983 | XR_001749317,XR_ | **LOC105369983** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369984 | XR_945342 | **LINC02356** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369987 | gene-IMMP1LP2 | **IMMP1LP2** | inner mitochondrial mem | pseudogene | 0 | 0 | 1 | 1 | 1.255 |
| 105369989 | XR_945346 | **LOC105369989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369990 | XR_945347,XR_945 | **LOC105369990** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369991 | XR_945349 | **LOC105369991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369993 | XR_945351,XR_945 | **LOC105369993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369994 | XR_945358,XR_945 | **LOC105369994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369995 | XR_945360,XR_945 | **LOC105369995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369996 | NR_146536 | **LINC02459** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369998 | XR_001749319,XR_ | **LOC105369998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105369999 | XR_001749328,XR_ | **LOC105369999** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370000 | XR_002957428,XR_ | **LOC105370000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370002 | XR_001749336,XR_ | **LOC105370002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370003 | XR_945388,XR_945 | **LOC105370003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370004 | XR_001749337 | **LINC02463** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370005 | XR_945392 | **LOC105370005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370007 | XR_945394 | **LOC105370007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370008 | XR_945395 | **LOC105370008** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370010 | XR_001749340,XR_ | **LOC105370010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.084 |
| 105370011 | XR_001749341,XR_ | **LOC105370011** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370012 | XR_945405 | **LOC105370012** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370013 | XR_945412 | **LINC02460** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370014 | NR_134998,NR_13 | **LINC02423** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370015 | XR_945415,XR_945 | **LINC02440** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370016 | NR_134997 | **LINC02439** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370017 | XR_001749169 | **LOC105370017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370018 | XR_945422 | **LOC105370018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370019 | XR_945423,XR_945 | **LOC105370019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370020 | XR_945426,XR_945 | **LOC105370020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370021 | XR_945429 | **LOC105370021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370022 | XR_945431 | **LOC105370022** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370024 | NR_134996 | **LOC105370024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370025 | XR_945436,XR_945 | **LOC105370025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370026 | XR_945438 | **LOC105370026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370027 | XR_001749346,XR_ | **LOC105370027** | uncharacterized LOC105 | lncRNA | 3 | 0 | 4 | 1 | 0.267 |
| 105370029 | XR_945449 | **LOC105370029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370030 | XR_001749349,XR_ | **LOC105370030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370031 | XR_945457,XR_945 | **LOC105370031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370032 | XR_001749352,XR_ | **LOC105370032** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370033 | XR_001749355 | **LOC105370033** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370034 | XR_001749356,XR_ | **LOC105370034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370035 | XR_002957437 | **LOC105370035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370041 | XR_945475 | **LOC105370041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 105370042 | XR_945477,XR_945 | **LOC105370042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370044 | XR_945481 | **LOC105370044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370047 | XR_945483,XR_945 | **LOC105370047** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370050 | XR_945488 | **LOC105370050** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370051 | XR_001749362 | **LOC105370051** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370052 | XR_001749364,XR_ | **LOC105370052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370053 | XR_945492 | **LOC105370053** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370054 | XR_945493 | **LOC105370054** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370055 | XR_945494 | **LOC105370055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370056 | XR_001749370 | **LOC105370056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370057 | XR_001749368,XR_ | **LINC02826** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370058 | XR_945503 | **LOC105370058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370059 | NR_146291 | **LINC02350** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370060 | XR_001749385,XR_ | **LINC02824** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370061 | XR_001749174,XR_ | **LOC105370061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370062 | XR_001749389,XR_ | **LOC105370062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370063 | XR_945516,XR_945 | **LOC105370063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370064 | XR_001749391 | **LOC105370064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370065 | NR_146537 | **LINC02376** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370066 | XR_945526 | **LOC105370066** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370067 | XR_945528 | **LOC105370067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370068 | NR_134995 | **LOC105370068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370069 | XR_945530 | **LOC105370069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370070 | NR_131985 | **LINC02441** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370071 | XR_945534 | **LOC105370071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370073 | XR_945538 | **LOC105370073** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370074 | XR_001749393,XR_ | **LOC105370074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370076 | XR_945542,XR_945 | **LOC105370076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370077 | XR_001749395,XR_ | **LOC105370077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370078 | NR_146538 | **LINC02419** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370079 | XR_945555 | **LOC105370079** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370080 | XR_001749396,XR_ | **LOC105370080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370082 | XR_945557,XR_945 | **LOC105370082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370083 | XR_945561 | **LOC105370083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370084 | XR_945565 | **LOC105370084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370085 | NR_146868 | **LINC02414** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370086 | XR_001749413,XR_ | **LOC105370086** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370087 | XR_001749183,XR_ | **LOC105370087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370088 | XR_945573 | **LOC105370088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370090 | XR_945577 | **LOC105370090** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370091 | XR_001749415,XR_ | **LOC105370091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370092 | XM_017020297,XR_ | **LOC105370092** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370094 | XR_001749425,XR_ | **LOC105370094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370101 | XR_941719 | **LOC105370101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 105370102 | XR_941720 | **LOC105370102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370103 | XR_941721,XR_941 | **LOC105370103** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 105370104 | XR_941728 | **LOC105370104** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370105 | XR_001749768,XR_ | **LOC105370105** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370108 | XR_001749774,XR_ | **LOC105370108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370109 | XR_001749785,XR_ | **LOC105370109** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370111 | XR_941742,XR_941 | **LOC105370111** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370112 | XR_001749786 | **LOC105370112** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370113 | XR_941745,XR_941 | **LOC105370113** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370114 | XR_001749788,XR_ | **LOC105370114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370115 | XR_001749789,XR_ | **LOC105370115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370117 | XR_941755,XR_941 | **LOC105370117** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.428 |
| 105370118 | XR_941759 | **LOC105370118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370119 | XR_001749796,XR_ | **LOC105370119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370120 | XR_941761,XR_941 | **LOC105370120** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370121 | XR_941763 | **LOC105370121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 105370122 | XR_001749797,XR_ | **LOC105370122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370124 | XR_941767 | **LOC105370124** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.231 |
| 105370125 | XR_001749799,XR_ | **LINC02340** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.087 |
| 105370126 | XR_001749961,XR_ | **LOC105370126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370128 | XR_941785 | **LOC105370128** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370129 | XR_941786 | **LOC105370129** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.707 |
| 105370130 | XR_941788 | **LOC105370130** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370132 | XR_941790,XR_941 | **LOC105370132** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370135 | XR_941799 | **LOC105370135** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370139 | XR_941804 | **LOC105370139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370141 | XR_002957502,XR_ | **LINC00385** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370145 | XR_941820 | **LOC105370145** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370148 | XR_001749804,XR_ | **LOC105370148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.223 |
| 105370150 | XR_001749806,XR_ | **LOC105370150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370152 | XR_001749807,XR_ | **LOC105370152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370154 | NR_146541 | **LINC02344** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370156 | XR_001749814,XR_ | **LOC105370156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370158 | NR_146542 | **LINC02343** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105370159 | XR_941849 | **LOC105370159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370161 | XR_941852 | **LOC105370161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370163 | XR_001749821,XR_ | **LOC105370163** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370165 | XR_941874 | **LOC105370165** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370167 | XR_941883 | **LOC105370167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370168 | XR_001749842 | **LOC105370168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370169 | XR_001749841 | **LOC105370169** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370170 | XR_002957521 | **LOC105370170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370171 | XR_941894,XR_941 | **LOC105370171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370173 | XR_001749846,XR_ | **LOC105370173** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370174 | XR_941901,XR_941 | **LOC105370174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370175 | XR_001749848,XR_ | **LOC105370175** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370176 | XR_941905 | **LOC105370176** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370177 | NR_135319 | **LINC02341** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.676 |
| 105370178 | XR_001749852,XR_ | **LOC105370178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370179 | XR_941913 | **LOC105370179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370181 | XR_001749853 | **LOC105370181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370182 | XR_941916,XR_941 | **LOC105370182** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370183 | NR_132368 | **LINC00390** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370185 | XR_941929 | **LOC105370185** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370187 | XR_941931,XR_941 | **LOC105370187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370188 | XR_941935 | **LOC105370188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370190 | XR_001749862,XR_ | **LOC105370190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370191 | XR_941938,XR_941 | **LOC105370191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370192 | XR_001749865,XR_ | **LOC105370192** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370194 | XR_941946 | **LOC105370194** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.712 |
| 105370195 | XR_941947 | **LOC105370195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370196 | XR_941948,XR_941 | **LOC105370196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 105370198 | XR_001749870,XR_ | **LOC105370198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370201 | XR_001749871 | **LOC105370201** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.460 |
| 105370202 | XR_001749872,XR_ | **LOC105370202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370203 | NR_135318 | **LOC105370203** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.849 |
| 105370204 | XR_941962,XR_941 | **LOC105370204** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.057 |
| 105370205 | XR_001749873,XR_ | **LOC105370205** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 105370207 | XR_001749879 | **LOC105370207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370208 | XR_001749880,XR_ | **LINC00345** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370210 | XR_001749881,XR_ | **LOC105370210** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370213 | XR_941975 | **LOC105370213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370214 | XR_941977,XR_941 | **LOC105370214** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370216 | XR_941982 | **LOC105370216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370217 | XR_941983 | **LOC105370217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370218 | XR_941984 | **LOC105370218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370219 | XR_941985 | **LOC105370219** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370220 | XR_941987,XR_941 | **LOC105370220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370221 | XR_001749882,XR_ | **LOC105370221** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370222 | XR_941992 | **LOC105370222** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370223 | XR_941993 | **LOC105370223** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370224 | XR_001749883,XR_ | **LOC105370224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370227 | XR_942001 | **LOC105370227** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.079 |
| 105370228 | XR_942002 | **LOC105370228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370230 | XR_942005 | **LOC105370230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370231 | XR_942010 | **LOC105370231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370232 | XR_942011 | **LOC105370232** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370233 | XR_942013 | **LOC105370233** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370234 | XR_942014 | **LOC105370234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370235 | XR_942017 | **LOC105370235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370236 | XR_942018,XR_942 | **LOC105370236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370237 | XR_942025 | **LOC105370237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370238 | XR_942028 | **LOC105370238** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370239 | XR_942029 | **LOC105370239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370240 | XR_942030 | **LOC105370240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370241 | XR_942031 | **LOC105370241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370242 | NR_132362 | **LINC01052** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370243 | XR_942033 | **LOC105370243** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370244 | XR_001750019 | **LOC105370244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370245 | XR_942035 | **LOC105370245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370246 | XR_002957498,XR_ | **LOC105370246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370247 | XR_001750075,XR_ | **LOC105370247** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370248 | XR_942044,XR_942 | **LOC105370248** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370249 | XR_942046,XR_942 | **LOC105370249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370250 | XR_942048 | **LOC105370250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370251 | XR_942049,XR_942 | **LOC105370251** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370253 | XR_942053,XR_942 | **LINC02342** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370254 | XR_942056,XR_942 | **LOC105370254** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370255 | XR_942058 | **LOC105370255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370256 | XR_001749898,XR_ | **LOC105370256** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370259 | XR_001749906,XR_ | **LOC105370259** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370260 | XR_942091 | **LOC105370260** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370261 | XR_942092 | **LOC105370261** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370262 | XR_942093 | **LOC105370262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370263 | XR_001749919 | **LOC105370263** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370264 | XR_942095 | **LOC105370264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370265 | XR_001749922,XR_ | **LOC105370265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370266 | XR_942099,XR_942 | **LOC105370266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370269 | XR_001749929,XR_ | **LOC105370269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370271 | XR_001750039 | **LOC105370271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370272 | XR_942107 | **LOC105370272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370273 | XR_942108 | **LOC105370273** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370274 | XR_942112 | **LOC105370274** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.253 |
| 105370275 | XR_942116 | **LOC105370275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370276 | XR_001749938,XR_ | **LOC105370276** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370278 | XR_001749944,XR_ | **LOC105370278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370281 | XR_942123 | **LOC105370281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370282 | XR_942124 | **LOC105370282** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370283 | XR_942125 | **LOC105370283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370284 | XR_001750061,XR_ | **LOC105370284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370285 | XR_001750062 | **LOC105370285** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370286 | XR_001749945,XR_ | **LOC105370286** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370287 | XR_942130 | **LOC105370287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370289 | XR_942133,XR_942 | **LOC105370289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370290 | XR_001749949,XR_ | **LOC105370290** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370291 | XR_002957485 | **LOC105370291** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370292 | XR_001750064 | **LOC105370292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370295 | NR_158453,NR_158 | **LOC105370295** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370297 | XR_001749858 | **LOC105370297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370299 | XR_931620 | **LOC105370299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370300 | XR_931621 | **LOC105370300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370301 | XR_931623,XR_931 | **LOC105370301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370302 | XR_001749950,XR_ | **LOC105370302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370304 | XR_931628 | **LOC105370304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370306 | NR_131919 | **LINC00373** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370307 | XR_001749951 | **LOC105370307** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370308 | NR_131228 | **LINC01040** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370309 | XR_931634,XR_931 | **LINC02336** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370310 | XR_931636 | **LOC105370310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370311 | XR_931637 | **LOC105370311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370312 | XR_001749959,XR_ | **LOC105370312** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370313 | XR_931641 | **LOC105370313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370314 | XR_931642 | **LOC105370314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370315 | XR_931643,XR_931 | **LOC105370315** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370317 | XR_931647 | **LOC105370317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370321 | XR_931653 | **LOC105370321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370322 | XR_931655 | **LOC105370322** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.039 |
| 105370324 | XR_931663,XR_931 | **LOC105370324** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.782 |
| 105370325 | XR_001749969 | **LOC105370325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370327 | XR_002957490,XR_ | **LOC105370327** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105370328 | XR_001749971,XR_ | **LOC105370328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370330 | XR_931672 | **LOC105370330** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370332 | XR_931674 | **LOC105370332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370333 | NR_132422 | **PCCA-DT** | PCCA divergent transcrip | lncRNA | 23 | 25 | 24 | 26 | 1.072 |
| 105370335 | XR_001749974,XR_ | **LOC105370335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370337 | XR_001749985,XR_ | **LOC105370337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370338 | XR_931686,XR_931 | **LOC105370338** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370339 | XR_931688 | **LOC105370339** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370340 | XR_931689 | **LOC105370340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370342 | XR_931691 | **LOC105370342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370343 | XR_001749998,XR_ | **LOC105370343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370344 | XR_931697 | **LOC105370344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370345 | XR_931698,XR_931 | **LOC105370345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370346 | XR_002957491 | **LOC105370346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370348 | XR_931705 | **LOC105370348** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.862 |
| 105370349 | XR_931709 | **LOC105370349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370350 | XR_931710 | **LOC105370350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370353 | XR_931714 | **LOC105370353** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370355 | XR_001750004 | **LOC105370355** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370356 | XR_001750005,XR_ | **LOC105370356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370359 | XR_001750017 | **LOC105370359** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370360 | XR_931723 | **LOC105370360** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370361 | NR_148221 | **LOC105370361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370362 | NR_158538 | **LOC105370362** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.734 |
| 105370363 | XR_001750026,XR_ | **LOC105370363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 105370364 | XR_001750030,XR_ | **LOC105370364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370365 | XR_001750031,XR_ | **LOC105370365** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370366 | XR_931734 | **LOC105370366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370369 | NR_135814 | **LINC02337** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370370 | XR_944282,XR_944 | **LOC105370370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370372 | XR_001750036,XR_ | **LOC105370372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370373 | XR_944295 | **LOC105370373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370384 | XR_001750053,XR_ | **LOC105370384** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370397 | XR_001750620,XR_ | **LOC105370397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370398 | XR_001750625,XR_ | **LOC105370398** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370399 | XM_011537424,XM | **LOC105370399** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.003 |
| 105370400 | NR_146543 | **LINC02332** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370401 | NR_148361,NR_148 | **LOC105370401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370404 | XR_001750638 | **LOC105370404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.385 |
| 105370406 | XR_001750652,XR_ | **LOC105370406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370407 | XR_001750653,XR_ | **LOC105370407** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370408 | XR_943608,XR_943 | **LOC105370408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370409 | XR_001750654,XR_ | **LOC105370409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370410 | XR_001750658,XR_ | **LOC105370410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370411 | XR_943618 | **LOC105370411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370412 | XR_943619 | **LOC105370412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370413 | XR_001750666,XR_ | **LOC105370413** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.928 |
| 105370414 | XR_001750669,XR_ | **LINC02286** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370415 | XR_001750920,XR_ | **LOC105370415** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370416 | XR_943638 | **LOC105370416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370418 | XR_001750673,XR_ | **LOC105370418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370419 | XR_001750687,XR_ | **LOC105370419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370420 | XR_001750686,XR_ | **LOC105370420** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370421 | XR_001750689,XR_ | **LOC105370421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370422 | XR_001750690,XR_ | **LINC02300** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370423 | XR_943667,XR_943 | **LINC02281** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370424 | NR_135255 | **LINC02282** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370425 | XR_001750704,XR_ | **LINC02326** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370429 | XR_943703 | **LOC105370429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370430 | XR_943705 | **LOC105370430** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370431 | NR_151720 | **G2E3-AS1** | G2E3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370432 | XR_943713 | **LOC105370432** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370436 | XR_943719 | **LOC105370436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370437 | XR_001750711,XR_ | **LOC105370437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370438 | XR_943722,XR_943 | **LOC105370438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370439 | NR_146544 | **LINC02313** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.837 |
| 105370440 | XR_001750712,XR_ | **LOC105370440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370443 | XR_943734 | **LOC105370443** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370444 | XR_001750945,XR_ | **LOC105370444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370445 | XR_943736 | **EGLN3-AS1** | EGLN3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370446 | XR_943737 | **LOC105370446** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370447 | XR_943739 | **LOC105370447** | uncharacterized LOC105 | lncRNA | 6 | 5 | 7 | 6 | 0.911 |
| 105370449 | XR_001750946,XR_ | **LOC105370449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370450 | XR_943749 | **LOC105370450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370451 | XR_943751 | **LOC105370451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370452 | XR_943752 | **LOC105370452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370453 | XR_001750715 | **LOC105370453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370455 | XR_943758 | **LOC105370455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.059 |
| 105370456 | XR_001750959,XR_ | **LOC105370456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370457 | NR_135256 | **LOC105370457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370458 | NR_146545 | **SEC23A-AS1** | SEC23A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.781 |
| 105370459 | XR_001750717,XR_ | **LOC105370459** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370460 | XR_001750731,XR_ | **LOC105370460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 105370461 | XR_001750718,XR_ | **LOC105370461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.925 |
| 105370462 | XR_001750733,XR_ | **LOC105370462** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370463 | XR_001750736,XR_ | **LOC105370463** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370464 | XR_001750738,XR_ | **LOC105370464** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370465 | XR_001750926 | **LOC105370465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370466 | XR_943790,XR_943 | **LOC105370466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370467 | XR_001750739 | **LOC105370467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370469 | XR_001750740,XR_ | **LOC105370469** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370470 | XR_943798 | **LOC105370470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370471 | XR_943799 | **LINC02307** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370472 | XR_943809 | **LOC105370472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370473 | NR_135257 | **LOC105370473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370474 | XR_943816 | **LOC105370474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370475 | XR_943817,XR_943 | **LOC105370475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370476 | XR_943820 | **LOC105370476** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370478 | XR_001750751 | **LOC105370478** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370479 | NR_146546,NR_146 | **LINC02303** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370480 | XR_943827 | **LOC105370480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370481 | XR_001750753,XR_ | **LOC105370481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370482 | XR_943835 | **LOC105370482** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370485 | XR_943841 | **LOC105370485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370489 | NR_135258 | **LOC105370489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370491 | XR_943848 | **LOC105370491** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370492 | XR_943849 | **LOC105370492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370495 | XR_943854 | **LOC105370495** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370496 | NR_146549 | **LINC02310** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370497 | XR_943863 | **LOC105370497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370498 | XR_001750766 | **LINC02319** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 105370500 | XR_001750963,XR_ | **LOC105370500** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370502 | XR_001750964,XR_ | **LOC105370502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.839 |
| 105370503 | XR_001750967,XR_ | **LINC02331** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370504 | XR_001750969,XR_ | **LOC105370504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 105370505 | XR_943880 | **LOC105370505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370507 | XR_001750980,XR_ | **LOC105370507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370508 | XR_943888 | **LOC105370508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.041 |
| 105370509 | XR_943889 | **LOC105370509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370511 | XR_943896 | **LOC105370511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370512 | XR_001750776,XR_ | **LOC105370512** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370513 | XR_001750777,XR_ | **LOC105370513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370515 | XR_943905 | **LOC105370515** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370516 | XR_943906 | **LOC105370516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370518 | XR_001750784,XR_ | **LOC105370518** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 105370519 | XR_002957592,XR_ | **LOC105370519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105370522 | XR_943913 | **LOC105370522** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370524 | XR_943916,XR_943 | **LOC105370524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 105370525 | XR_001750984,XR_ | **LOC105370525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370526 | NR_144368 | **HIF1A-AS3** | HIF1A antisense RNA 3 | lncRNA | 0 | 0 | 1 | 1 | 0.917 |
| 105370528 | XR_943931 | **LOC105370528** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370529 | XR_943932 | **LOC105370529** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370530 | XR_943933 | **LOC105370530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370531 | XR_943934,XR_943 | **LOC105370531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370532 | XR_001750790,XR_ | **LOC105370532** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.980 |
| 105370534 | XR_943942 | **LOC105370534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370537 | XR_943946 | **LOC105370537** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370538 | XR_001750989,XR_ | **LOC105370538** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370540 | XR_001750987,XR_ | **LINC02290** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370542 | XR_943964,XR_943 | **LOC105370542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370543 | XR_001750988,XR_ | **LOC105370543** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.603 |
| 105370546 | XR_943976,XR_943 | **LOC105370546** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370547 | XR_001750995 | **LOC105370547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370549 | XR_943978,XR_943 | **LOC105370549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370550 | XR_001750794,XR_ | **LOC105370550** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370552 | XR_943991,XR_943 | **LOC105370552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370556 | XR_001750799,XR_ | **LOC105370556** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370557 | XR_001750804,XR_ | **LOC105370557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370559 | XR_001750997,XR_ | **LOC105370559** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.768 |
| 105370560 | XR_944020,XR_944 | **LOC105370560** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.961 |
| 105370563 | XR_944024 | **LOC105370563** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370564 | XR_001750823,XR_ | **LOC105370564** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370567 | XR_944031 | **LOC105370567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 105370569 | XR_944033 | **LOC105370569** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.022 |
| 105370572 | XR_944037 | **LOC105370572** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.951 |
| 105370573 | XR_001750831,XR_ | **LOC105370573** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370575 | XR_001750833 | **LOC105370575** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370576 | XR_944041,XR_944 | **LOC105370576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370577 | XR_001750834 | **LOC105370577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370578 | NR_133913 | **LINC01629** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370579 | XM_017021843 | **LOC105370579** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.037 |
| 105370581 | XR_944052,XR_944 | **LOC105370581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370582 | XR_944054 | **LOC105370582** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370583 | XR_001751001,XR_ | **LOC105370583** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370586 | NR_135159 | **LOC105370586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370588 | XR_001751008,XR_ | **LOC105370588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 105370589 | XR_944068 | **LOC105370589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370590 | XR_001751017 | **LOC105370590** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370591 | XR_944070 | **LOC105370591** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370593 | XR_944072 | **LOC105370593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370594 | XR_944073 | **LOC105370594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 105370596 | XR_944080 | **LOC105370596** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.928 |
| 105370598 | XR_944083 | **LOC105370598** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370599 | XR_944087 | **LOC105370599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370600 | XR_002957602,XR_ | **LOC105370600** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370601 | XR_944092 | **LOC105370601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370603 | XR_944096,XR_944 | **LOC105370603** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370604 | XR_944100,XR_944 | **LOC105370604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370605 | NR_135155 | **LINC02329** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370607 | XR_944113 | **LINC02309** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370608 | XR_001750934 | **LOC105370608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370610 | XR_001750848 | **LINC02296** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370611 | NR_146551 | **LINC02330** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370612 | XR_944119,XR_944 | **LOC105370612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370613 | XR_944122 | **LOC105370613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370614 | XR_944123 | **LOC105370614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370615 | XR_944126,XR_944 | **LOC105370615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370616 | XR_944129,XR_944 | **LOC105370616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370617 | XR_944131 | **LOC105370617** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370618 | XR_944132 | **LOC105370618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370619 | NR_135274 | **LOC105370619** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370622 | NR_135190 | **LOC105370622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370623 | XR_001750857,XR | **LINC02321** | long intergenic non-prote | lncRNA | 2 | 3 | 3 | 4 | 1.284 |
| 105370624 | XR_944148,XR_944 | **LOC105370624** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.938 |
| 105370625 | XR_944150 | **LOC105370625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 105370627 | XR_944153 | **LOC105370627** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370629 | XR_944155,XR_944 | **LINC02833** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370631 | XR_944162 | **LOC105370631** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370634 | XR_944166,XR_944 | **LOC105370634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370635 | XR_944169 | **LOC105370635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 105370637 | XR_944171 | **LOC105370637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370638 | XR_944172 | **LOC105370638** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370639 | XR_944173 | **LOC105370639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370640 | XR_944174 | **LOC105370640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.362 |
| 105370643 | XR_001750938,XR_ | **LOC105370643** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370644 | XR_944178 | **LOC105370644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370645 | XR_944179 | **LOC105370645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370646 | NR_146552 | **LINC02299** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370647 | XR_944180 | **LOC105370647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 105370648 | NR_146554 | **LINC02304** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370650 | XR_001750866,XR_ | **LOC105370650** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370651 | XR_001750868,XR_ | **LOC105370651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.020 |
| 105370652 | XR_944187 | **LINC02295** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370653 | XR_944188,XR_944 | **LOC105370653** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370654 | XR_944191,XR_944 | **LOC105370654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370655 | XR_001750876,XR_ | **LOC105370655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370656 | XR_944195 | **LOC105370656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370657 | XR_944196 | **LOC105370657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370658 | XR_944197 | **LOC105370658** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.896 |
| 105370659 | XR_001750879,XR_ | **LOC105370659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.153 |
| 105370660 | XR_001750880,XR_ | **LOC105370660** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 1.094 |
| 105370661 | XR_001750882,XR_ | **LOC105370661** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370664 | XR_944204 | **LOC105370664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370667 | XR_944208 | **LOC105370667** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370668 | XR_001750886,XR_ | **LOC105370668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370669 | XR_944211 | **LOC105370669** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370670 | XR_001750889,XR_ | **LOC105370670** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370671 | XR_944215 | **LOC105370671** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370672 | XR_001750893,XR_ | **LOC105370672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370673 | XR_944222 | **LOC105370673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370674 | XR_944224 | **LOC105370674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370675 | XR_944225 | **LOC105370675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370676 | XR_001750895,XR_ | **LINC02320** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370677 | XR_944228 | **LOC105370677** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370679 | XR_001750904,XR_ | **LOC105370679** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370680 | XR_944238,XR_944 | **LOC105370680** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370681 | NR_146561 | **LINC02323** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370683 | NR_138038 | **LINC00677** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370685 | XR_944245 | **LOC105370685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370686 | XR_944246 | **LOC105370686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370687 | NR_158216 | **LOC105370687** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.002 |
| 105370688 | XR_944248 | **LOC105370688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370689 | XR_001750908,XR_ | **LOC105370689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370690 | XR_002957603 | **LOC105370690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370691 | XM_011537449,XR_ | **LOC105370691** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 0.979 |
| 105370694 | XR_001750912,XR_ | **LOC105370694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370697 | NR_135205 | **LOC105370697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370698 | XR_001750918,XR_ | **LOC105370698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370700 | XR_944265 | **LOC105370700** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.084 |
| 105370705 | XM_011537450 | **LOC105370705** | collagen alpha-2(I) chain | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370706 | XM_011537452 | **LOC105370706** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370707 | XR_001750859 | **LOC105370707** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.113 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105370708 | NR_158217 | **LOC105370708** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370714 | XR_948836 | **LOC105370714** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370715 | XR_948838 | **LOC105370715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370721 | XR_948873 | **LOC105370721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370722 | gene-LOC10537072 | **LOC105370722** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105370726 | XR_931975 | **LOC105370726** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370728 | XR_931977 | **LOC105370728** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370729 | XR_931978 | **LOC105370729** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370730 | XR_931979 | **LOC105370730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370731 | NR_126392 | **PWRN4** | Prader-Willi region non-p | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370732 | XR_931993 | **LOC105370732** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370733 | XM_017022805,XM | **LOC105370733** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370734 | XR_931984 | **LOC105370734** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370737 | XR_001751755,XR_ | **LINC02250** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370738 | XR_932002 | **LOC105370738** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370739 | XR_932004,XR_932 | **LOC105370739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370740 | XR_001751456,XR_ | **LOC105370740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370741 | XR_932011 | **LOC105370741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370743 | XR_932029,XR_932 | **LOC105370743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370747 | XR_932053 | **LOC105370747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370751 | XR_001751768 | **LOC105370751** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370752 | XR_001751769,XR_ | **LOC105370752** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 105370753 | XR_932064,XR_932 | **LOC105370753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370754 | XR_001751472,XR_ | **LOC105370754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370756 | XR_932083 | **LOC105370756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370757 | NR_135505 | **SCG5-AS1** | SCG5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370759 | XR_001751475,XR_ | **LOC105370759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370762 | NR_146869 | **LINC02252** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370763 | XR_932098 | **LOC105370763** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370764 | XR_002957732,XR_ | **LOC105370764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370765 | XR_932103 | **LOC105370765** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370766 | XR_001751478,XR_ | **LOC105370766** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370767 | XR_932106,XR_932 | **LOC105370767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370768 | XR_932110 | **LOC105370768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370769 | XR_932111 | **LOC105370769** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370770 | XR_932112,XR_932 | **LOC105370770** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370772 | XR_932115 | **LOC105370772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370773 | XR_932116 | **LOC105370773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370774 | XR_001751485,XR_ | **LOC105370774** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 105370775 | XR_932119 | **LOC105370775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.247 |
| 105370776 | XR_932121 | **LOC105370776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370777 | XR_001751487,XR_ | **LOC105370777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370780 | XR_001751493,XR_ | **LOC105370780** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 105370781 | XR_001751495,XR_ | **LOC105370781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |
| 105370783 | XR_001751496,XR_ | **LOC105370783** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370784 | XR_001751505 | **LOC105370784** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370785 | XR_932156 | **LOC105370785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370786 | XR_932157,XR_932 | **LOC105370786** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370787 | XR_932160 | **LOC105370787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370789 | XR_001751507,XR_ | **LOC105370789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370790 | XR_932169 | **LOC105370790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370791 | XR_932171,XR_932 | **LOC105370791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370792 | NR_135681 | **LOC105370792** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370793 | XR_932177 | **LOC105370793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370794 | XR_932178 | **LOC105370794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370795 | XR_932179,XR_932 | **LOC105370795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370798 | XR_932185 | **LOC105370798** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370802 | NR_135680 | **LOC105370802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370803 | XR_932193,XR_932 | **LOC105370803** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370804 | XR_001751512,XR_ | **LOC105370804** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370805 | XR_001751516,XR_ | **LOC105370805** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370807 | XR_002957763,XR_ | **LOC105370807** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370809 | XR_932209 | **LOC105370809** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370811 | XR_001751537,XR_ | **LOC105370811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370816 | XR_932234,XR_932 | **LOC105370816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370819 | XR_001751543,XR_ | **LOC105370819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370820 | XR_001751542 | **LOC105370820** | uncharacterized LOC105 | lncRNA | 8 | 6 | 9 | 7 | 0.829 |
| 105370821 | XR_932252,XR_932 | **LOC105370821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370822 | NR_147181 | **LINC02490** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370823 | XR_932260,XR_932 | **LOC105370823** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370824 | XR_001751550 | **LOC105370824** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370826 | XR_001751551,XR_ | **LOC105370826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370827 | XR_932272,XR_932 | **LOC105370827** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370829 | NR_135679 | **LOC105370829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370831 | XR_001751770 | **LOC105370831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370832 | XR_001751771,XR_ | **LOC105370832** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370833 | XR_932287 | **LOC105370833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 105370834 | XR_001751554,XR_ | **LOC105370834** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370838 | XR_932307,XR_932 | **LOC105370838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370839 | XR_932310,XR_932 | **LOC105370839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370840 | XR_932314 | **LOC105370840** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370841 | XR_001751772 | **LOC105370841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370842 | XR_932321 | **LOC105370842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370844 | XR_932327 | **LOC105370844** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370846 | XR_001751783 | **LOC105370846** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370847 | XR_932332,XR_932 | **LOC105370847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370849 | XM_011522295,XM_ | **LOC105370849** | golgin subfamily A memt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370850 | XR_932340 | **LOC105370850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 105370851 | XR_932346 | **LOC105370851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370852 | XR_932347 | **LOC105370852** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370854 | XR_001751576,XR_ | **LOC105370854** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.848 |
| 105370855 | XR_002957730,XR_ | **LOC105370855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370861 | XR_932367 | **LOC105370861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370866 | XR_932371,XR_932 | **LOC105370866** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.173 |
| 105370867 | XR_932376,XR_932 | **LOC105370867** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370868 | XR_932378,XR_932 | **LOC105370868** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.214 |
| 105370869 | XR_932380 | **LOC105370869** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370870 | XR_932395 | **LOC105370870** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370871 | XR_932396 | **LOC105370871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370873 | XR_002957745,XR_ | **LOC105370873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370876 | XR_932420,XR_932 | **LOC105370876** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 105370877 | XR_932423 | **LOC105370877** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.964 |
| 105370878 | XR_932424 | **LOC105370878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370880 | NR_146562 | **LINC02205** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370884 | XR_001751789,XR_ | **LOC105370884** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370886 | XR_932439 | **LOC105370886** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370887 | XR_932440 | **LOC105370887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370888 | NR_135678 | **TMEM202-AS1** | TMEM202 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 1.043 |
| 105370890 | XR_001751598,XR_ | **LOC105370890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370891 | XR_932451 | **LOC105370891** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370892 | XR_932453,XR_932 | **LOC105370892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370893 | XR_001751606,XR_ | **LOC105370893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370894 | NR_146881 | **LINC02255** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370897 | XR_932478 | **LOC105370897** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370902 | XR_001751804,XR_ | **LOC105370902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370904 | XR_001751618,XR_ | **LOC105370904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.839 |
| 105370906 | XR_001751806,XR_ | **LOC105370906** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370910 | XR_932500 | **LOC105370910** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.904 |
| 105370911 | XR_001751620,XR_ | **LOC105370911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370912 | XR_932506 | **LOC105370912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370913 | XR_932508,XR_932 | **LOC105370913** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370917 | XR_001751624,XR_ | **LOC105370917** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370918 | XR_001751628 | **LOC105370918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370919 | XR_001751629 | **LOC105370919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370921 | XR_932526 | **LOC105370921** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370922 | XR_932529 | **LOC105370922** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105370923 | XR_932531 | **LOC105370923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370924 | XR_932532 | **LOC105370924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370926 | XR_932534 | **LOC105370926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370928 | XR_001751643,XR_ | **LOC105370928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370932 | XR_932541,XR_932 | **LOC105370932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370933 | XR_932544 | **LOC105370933** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370934 | XR_932545,XR_932 | **LOC105370934** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370935 | XR_001751646 | **LOC105370935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370936 | XR_932562 | **LOC105370936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370939 | XR_001751466 | **LOC105370939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 105370940 | XM_011522320 | **LOC105370940** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370941 | NR_135665 | **LOC105370941** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.826 |
| 105370943 | NR_135836 | **LOC105370943** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.811 |
| 105370946 | XR_932551 | **LOC105370946** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370947 | XR_932550 | **LOC105370947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370948 | XR_932566 | **LOC105370948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370952 | XR_932579,XR_932 | **LOC105370952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370953 | XR_001751742 | **LOC105370953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370954 | NR_135682 | **LOC105370954** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370955 | XR_932582 | **LOC105370955** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370956 | XR_001751647,XR_ | **LOC105370956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370957 | XR_932587,XR_932 | **LOC105370957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370958 | XR_932589 | **LOC105370958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370959 | XR_932590 | **LOC105370959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370960 | XR_001751648,XR_ | **LOC105370960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370964 | XR_001751653,XR_ | **LOC105370964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 105370965 | XR_932601 | **LOC105370965** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370966 | NR_149130 | **IDH2-DT** | IDH2 divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370969 | XR_001751655,XR_ | **LOC105370969** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370970 | XR_932611 | **LOC105370970** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 105370972 | XR_001751656,XR_ | **LOC105370972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370973 | XR_932615 | **LOC105370973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370974 | XR_001751661,XR_ | **LOC105370974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370975 | XR_932618 | **LOC105370975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370980 | NM_001365393 | **LOC105370980** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105370981 | XR_001751668 | **LOC105370981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370982 | XR_001751669,XR_ | **LOC105370982** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370984 | XR_932640 | **LOC105370984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370985 | XR_932641 | **LINC02852** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370986 | XR_932642 | **LOC105370986** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370988 | XR_932644 | **LOC105370988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370989 | XR_932645 | **LOC105370989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370990 | XR_932646 | **LOC105370990** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370991 | XR_002957693 | **LOC105370991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370993 | XR_001751683,XR_ | **LOC105370993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370994 | XR_932652 | **LOC105370994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370995 | XR_932653 | **LOC105370995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370997 | XR_002957736,XR_ | **LOC105370997** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105370998 | XR_001751687,XR_ | **LOC105370998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371001 | XR_932669,XR_932 | **LOC105371001** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.620 |
| 105371002 | XR_001751745 | **LOC105371002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371004 | XR_001751689,XR_ | **LOC105371004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371005 | XR_932684 | **LOC105371005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371006 | XR_932685,XR_932 | **LOC105371006** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371007 | XR_001751696,XR_ | **LOC105371007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371008 | NR_146563,NR_146 | **LINC02251** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371009 | XR_001751697,XR_ | **LOC105371009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371010 | XR_932698,XR_932 | **LOC105371010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371011 | NR_146566,NR_146 | **LINC02351** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371013 | XR_932702 | **LOC105371013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371016 | XR_001751810,XR_ | **LOC105371016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371017 | XR_001751706,XR_ | **LOC105371017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 105371018 | XR_001751707,XR_ | **LINC02244** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371019 | XR_001751709,XR_ | **LOC105371019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371020 | XR_001751712 | **LOC105371020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371021 | XR_932721,XR_932 | **LOC105371021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371022 | XR_001751713 | **LOC105371022** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 105371024 | XR_932726,XR_932 | **LOC105371024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371026 | XR_001751721,XR_ | **LOC105371026** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.711 |
| 105371027 | NR_132373 | **PCSK6-AS1** | PCSK6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371028 | XR_932739,XR_932 | **LOC105371028** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371030 | XR_001751732,XR_ | **LOC105371030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371031 | NR_160724 | **LOC105371031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371032 | gene-LOC10537103 | **LOC105371032** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105371036 | XR_932985,XR_932 | **LOC105371036** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 105371038 | NR_135177 | **LOC105371038** | uncharacterized LOC105 | lncRNA | 4 | 3 | 5 | 4 | 0.960 |
| 105371042 | XR_932992,XR_932 | **LOC105371042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371044 | XR_932996 | **LOC105371044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371045 | NM_001365310 | **PERCC1** | proline and glutamate ric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371046 | NR_135176 | **LOC105371046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371048 | NR_146568 | **LINC02124** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371049 | NR_135175 | **LOC105371049** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371050 | XR_001752053 | **LOC105371050** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.977 |
| 105371055 | XR_933011,XR_933 | **LOC105371055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371056 | XR_001752054,XR_ | **LOC105371056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371058 | XR_001752057,XR_ | **LOC105371058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.106 |
| 105371059 | XR_001752058,XR_ | **LOC105371059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371060 | XR_001752061,XR_ | **LOC105371060** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 105371062 | XR_001752062 | **LOC105371062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.902 |
| 105371063 | XM_011522781 | **LOC105371063** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371064 | XR_001752063,XR_ | **LOC105371064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371066 | XR_933032,XR_933 | **LINC02164** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371067 | XR_001752067 | **LOC105371067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371068 | XR_002957901,XR_ | **LOC105371068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371069 | XR_001752323 | **LOC105371069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371070 | XR_001752068 | **LOC105371070** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371071 | XR_001752069,XR_ | **LINC02152** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371072 | XR_933045 | **LOC105371072** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371074 | XR_933049 | **LOC105371074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 105371075 | XR_933060 | **LOC105371075** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371076 | XR_933061 | **LOC105371076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371077 | XR_933062,XR_933 | **LOC105371077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371078 | XR_001752077 | **LOC105371078** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371079 | XR_933066 | **LOC105371079** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371080 | XR_002957860,XR_ | **LOC105371080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.775 |
| 105371081 | XR_001752081,XR_ | **LOC105371081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371082 | XR_933070,XR_933 | **LOC105371082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.180 |
| 105371083 | NR_135174 | **LOC105371083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 105371084 | XR_001752085,XR_ | **LOC105371084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 105371085 | XR_002957889,XR_ | **LOC105371085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371087 | XR_933083 | **LOC105371087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371088 | XR_933085 | **LOC105371088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371089 | XR_933086 | **LOC105371089** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371090 | XR_001752086,XR_ | **LOC105371090** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371091 | XR_933092 | **LOC105371091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371092 | XR_001752088 | **LOC105371092** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371093 | XR_933101 | **LOC105371093** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371094 | XR_933105 | **LOC105371094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371095 | XM_017023975,XM_ | **LOC105371095** | collagen alpha-3(IX) cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371096 | XR_933126 | **LOC105371096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371097 | XR_933125 | **LOC105371097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371098 | XR_933136 | **LOC105371098** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371099 | XR_001752343,XR_ | **LOC105371099** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105371100 | XR_001752340,XR_ | **LOC105371100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371102 | XR_933129,XR_933 | **LOC105371102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371103 | XR_933122,XR_933 | **LOC105371103** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105371105 | XR_933139 | **LOC105371105** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371106 | XR_933144 | **LOC105371106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371108 | XR_933147 | **LOC105371108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371113 | XR_950883 | **LINC02858** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371114 | XR_001752096,XR_ | **LOC105371114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371115 | XR_001752100,XR_ | **LOC105371115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371116 | XR_950894 | **LOC105371116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371117 | XR_950895 | **LOC105371117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371119 | XR_950898 | **LOC105371119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371120 | XR_002957897,XR_ | **LOC105371120** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371121 | XR_950900 | **LOC105371121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.148 |
| 105371123 | XR_001752344 | **LOC105371123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371125 | XR_950905 | **LOC105371125** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371126 | XR_002957907,XR_ | **LOC105371126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371129 | XR_950909,XR_950 | **LOC105371129** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371130 | NR_136333 | **MFSD13B** | major facilitator superfan | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105371131 | XR_001752348,XR_ | **LOC105371131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.866 |
| 105371141 | XR_950923 | **LOC105371141** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371142 | NR_146569 | **LINC02194** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371143 | XR_950928 | **LOC105371143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371146 | XR_002957905,XR_ | **LINC02191** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371147 | XR_950936 | **LOC105371147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371149 | XR_950941 | **LOC105371149** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371150 | XR_001752324 | **LOC105371150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371152 | XR_950949,XR_950 | **LINC02195** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371153 | XR_001752325,XR_ | **LOC105371153** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371154 | XR_950954 | **LOC105371154** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371155 | XR_950956 | **LOC105371155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371157 | XR_950957 | **LOC105371157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371159 | XR_001752365,XR_ | **LOC105371159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371167 | XR_950983 | **LOC105371167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371168 | XR_950984 | **LOC105371168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371172 | XR_922006 | **LOC105371172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371173 | NR_146571 | **LINC02190** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371174 | XR_950994 | **LOC105371174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371175 | XR_922007 | **LOC105371175** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371177 | XR_950996 | **LOC105371177** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371184 | NR_136337 | **LINC02867** | long intergenic non-prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105371191 | XM_017023917 | **LOC105371191** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371195 | XR_942148 | **LOC105371195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371196 | XR_001737752 | **LOC105371196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371197 | XR_942149 | **LOC105371197** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371198 | XR_942150,XR_942 | **LOC105371198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371199 | XR_942153,XR_942 | **LOC105371199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371200 | XR_942157,XR_942 | **LOC105371200** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371201 | XR_942160 | **LOC105371201** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371203 | XR_942162,XR_942 | **LOC105371203** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371204 | XR_942166,XR_942 | **LOC105371204** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371206 | XR_922024 | **LOC105371206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371207 | XR_922026 | **LOC105371207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371209 | XR_922028 | **LOC105371209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371211 | XR_001737749,XR_ | **LOC105371211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 105371214 | XR_001737751 | **LOC105371214** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371215 | NR_160535 | **LOC105371215** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371216 | XR_922043 | **LOC105371216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371217 | XR_002958630,XR_ | **LOC105371217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371219 | XR_001737740,XR_ | **LOC105371219** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.640 |
| 105371222 | XR_922062 | **LOC105371222** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371223 | XR_922063 | **LOC105371223** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 105371224 | XR_001737711,XR_ | **LOC105371224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.020 |
| 105371225 | XR_001737725,XR_ | **LOC105371225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.022 |
| 105371226 | XR_922067 | **LINC01731** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371227 | XR_922068 | **LOC105371227** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 105371228 | XR_001737719,XR_ | **LINC02804** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.938 |
| 105371229 | XR_001737732,XR_ | **LOC105371229** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371230 | XR_922077 | **LOC105371230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371231 | XR_001737735 | **LOC105371231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371233 | XR_922082,XR_922 | **LOC105371233** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371235 | XR_001737741,XR_ | **LOC105371235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371236 | XR_001752136,XR_ | **LOC105371236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371237 | XR_933513 | **LOC105371237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371238 | NR_146502 | **LINC02134** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371239 | gene-LOC10537123 | **LOC105371239** | . | pseudogene | 0 | 0 | 1 | 1 | 1.064 |
| 105371240 | XR_933516 | **LOC105371240** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.850 |
| 105371241 | XR_001752138,XR_ | **LOC105371241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371242 | NM_001368128 | **PPIAL4H** | peptidylprolyl isomerase | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371243 | XR_933533 | **LOC105371243** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371244 | XR_001752167,XR_ | **LOC105371244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371245 | XR_933538 | **LOC105371245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371248 | NR_146572 | **LINC02178** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371251 | XR_933542 | **LOC105371251** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371252 | NR_146573 | **LINC02168** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371253 | XM_017023963 | **LOC105371253** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371254 | XR_922087 | **LOC105371254** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.040 |
| 105371256 | XR_933559,XR_933 | **LOC105371256** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371257 | XR_001752182 | **LOC105371257** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.913 |
| 105371259 | XR_933563 | **LOC105371259** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.081 |
| 105371260 | NR_147182 | **LIX1L-AS1** | LIX1L antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.689 |
| 105371261 | XR_933564 | **LOC105371261** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371262 | XR_933573 | **LOC105371262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371264 | XR_001752187,XR_ | **LOC105371264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371265 | XR_933581 | **LOC105371265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371267 | NR_136518,NR_147 | **LOC105371267** | p53-regulated lncRNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 105371268 | XR_001752188 | **LOC105371268** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371269 | XR_933588 | **LOC105371269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371271 | XR_933590 | **LOC105371271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 105371272 | XR_933591 | **LOC105371272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371273 | XR_933595 | **LINC02183** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 105371274 | XR_933596 | **LOC105371274** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371275 | XR_933597 | **LOC105371275** | uncharacterized LOC105 | lncRNA | 36 | 30 | 37 | 31 | 0.830 |
| 105371276 | XR_002957873 | **LOC105371276** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371277 | XR_001752189 | **LOC105371277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371278 | XR_933599 | **LOC105371278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371279 | XR_933600 | **LOC105371279** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371280 | XR_933604,XR_933 | **LOC105371280** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371281 | XR_001752201 | **LOC105371281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371283 | XR_001752206 | **LOC105371283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371286 | XR_933619,XR_933 | **LOC105371286** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.070 |
| 105371287 | XR_933621 | **LOC105371287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371288 | XR_001737726,XR_ | **LOC105371288** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.261 |
| 105371289 | XR_933623 | **LOC105371289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.126 |
| 105371291 | XR_933625,XR_933 | **LOC105371291** | uncharacterized LOC105 | lncRNA | 15 | 15 | 16 | 16 | 0.999 |
| 105371293 | XR_933630,XR_933 | **LOC105371293** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371295 | XR_001752223,XR_ | **LINC02137** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.194 |
| 105371296 | XR_933639 | **LOC105371296** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371298 | XR_001752331 | **LOC105371298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371299 | XR_933644,XR_933 | **LOC105371299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371300 | XR_933648,XR_933 | **LOC105371300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371301 | XR_933655 | **LOC105371301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371302 | XR_933656 | **LOC105371302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371306 | XR_933660 | **LOC105371306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371307 | XR_933665 | **LOC105371307** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371308 | XR_001752232 | **LOC105371308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371309 | XR_933670 | **LOC105371309** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371310 | XR_001752233,XR_ | **LOC105371310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371311 | XR_001752237 | **LOC105371311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105371312 | XR_002958598 | **LOC105371312** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.860 |
| 105371313 | XR_001752239,XR_ | **LOC105371313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371314 | XR_001752240,XR_ | **LOC105371314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371316 | XR_933684 | **LOC105371316** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371317 | XR_001752241,XR_ | **LOC105371317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371318 | XR_933687 | **LOC105371318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371321 | XR_002957904,XR_ | **LOC105371321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371325 | XR_933697 | **LOC105371325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371328 | NR_135173 | **LOC105371328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371332 | XR_933714 | **LOC105371332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371333 | NR_146574 | **LINC02136** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371334 | XR_933717 | **LOC105371334** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371335 | NR_135171,NR_133 | **LOC105371335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371337 | gene-LOC10537133 | **LOC105371337** | . | pseudogene | 0 | 0 | 1 | 1 | 0.986 |
| 105371341 | XR_933729 | **LOC105371341** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371342 | XR_933731 | **LOC105371342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371343 | XR_933739 | **LOC105371343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371344 | XR_933740 | **LOC105371344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371345 | XR_933742,XR_933 | **LOC105371345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371346 | NM_001355613 | **CPHXL** | cytoplasmic polyadenyla | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371347 | XR_001752256 | **LOC105371347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371348 | XR_001752254,XR_ | **LOC105371348** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371349 | XR_933750 | **LOC105371349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371350 | XR_933754,XR_933 | **LINC02131** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371351 | XR_001752265,XR_ | **LOC105371351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371354 | XR_001752380 | **LOC105371354** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371356 | XR_001752268,XR_ | **LOC105371356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 105371357 | XR_001752270,XR_ | **LOC105371357** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371358 | XR_933776,XR_933 | **LOC105371358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371360 | XR_933781 | **LOC105371360** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 105371361 | XR_933783 | **LOC105371361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371362 | XR_933786 | **LOC105371362** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371363 | XR_001752286,XR_ | **LOC105371363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371366 | XR_001752382,XR_ | **LOC105371366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371368 | XR_001752386,XR_ | **LOC105371368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371371 | XM_011523509 | **LOC105371371** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371372 | XR_933810 | **LOC105371372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371374 | NR_146503 | **ATP2C2-AS1** | ATP2C2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.076 |
| 105371376 | XR_001752287,XR_ | **LOC105371376** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371378 | XR_001752292,XR_ | **LOC105371378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 105371379 | XR_933830,XR_933 | **LINC02176** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371380 | XR_933833,XR_933 | **LOC105371380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371381 | XR_933837 | **LOC105371381** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371382 | XR_002957894,XR_ | **LOC105371382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371388 | XR_001752395 | **LOC105371388** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371389 | XR_933854 | **LOC105371389** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371392 | XR_933864 | **LOC105371392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371393 | XR_001752389,XR_ | **LOC105371393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371394 | XR_001752392,XR_ | **LOC105371394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371399 | XR_933871 | **LOC105371399** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.798 |
| 105371401 | XR_002957935 | **LOC105371401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371403 | XR_922106 | **LOC105371403** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.932 |
| 105371406 | XR_001738224,XR_ | **LOC105371406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371409 | XM_017023971 | **LOC105371409** | cadmium/zinc-transportir | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105371411 | XR_001752336 | **LOC105371411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371412 | XR_933889 | **LOC105371412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371413 | XR_933890 | **LOC105371413** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 105371414 | NR_136339 | **LOC105371414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371416 | XR_001752310,XR_ | **LINC02166** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 1.085 |
| 105371419 | XM_011523522 | **LOC105371419** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.099 |
| 105371423 | XR_001752318 | **LINC02193** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 105371425 | XR_942215 | **LOC105371425** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371427 | XR_001738225,XR_ | **LOC105371427** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.163 |
| 105371430 | NR_136407 | **LOC105371430** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371433 | NR_135098 | **LOC105371433** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.965 |
| 105371434 | XR_922129 | **LOC105371434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371438 | XR_922135 | **LOC105371438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371441 | XR_001738234,XR_ | **LOC105371441** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371442 | XR_001738235 | **LOC105371442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371444 | XR_922149 | **LOC105371444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371445 | XR_922150 | **LOC105371445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371446 | XR_922151 | **LOC105371446** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371449 | XR_001738239,XR_ | **LOC105371449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105371450 | XR_001738241,XR_ | **THBS3-AS1** | THBS3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371452 | XR_922171 | **LOC105371452** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.868 |
| 105371453 | XR_922175 | **LOC105371453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371455 | XR_002958370,XR_ | **LINC02772** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371456 | XR_922183 | **LOC105371456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371457 | XR_001738255,XR_ | **LOC105371457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 105371458 | NR_135760 | **LOC105371458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371459 | XR_922186 | **LOC105371459** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371460 | XR_922187 | **LOC105371460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371461 | XR_922188 | **LOC105371461** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.077 |
| 105371462 | XR_922189,XR_922 | **LINC02819** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371464 | XR_922195 | **LOC105371464** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 105371466 | XR_922199,XR_922 | **LOC105371466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371467 | XR_922202 | **LOC105371467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371468 | XR_922203 | **LOC105371468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371470 | XR_001738267,XR_ | **LOC105371470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371471 | XR_001738268,XR_ | **NECTIN4-AS1** | NECTIN4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371472 | XR_922210,XR_922 | **LOC105371472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371473 | XR_922214 | **LOC105371473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371475 | XR_002958374,XR_ | **LOC105371475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371479 | XR_934138,XR_934 | **LOC105371479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371480 | XR_001753073 | **LOC105371480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371481 | XR_934143 | **LOC105371481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.947 |
| 105371483 | XR_934145 | **LOC105371483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371485 | NR_135642 | **LOC105371485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371486 | XR_001752743,XR_ | **LOC105371486** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371490 | XR_934156 | **LOC105371490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.226 |
| 105371492 | XR_934158,XR_934 | **LOC105371492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371493 | XR_001752758,XR_ | **LOC105371493** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371496 | NR_146884 | **LINC01975** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371497 | XR_922225 | **LOC105371497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371498 | XR_001752766 | **LOC105371498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371499 | XR_001752768 | **LOC105371499** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371501 | XR_002958101,XR_ | **LOC105371501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371502 | XR_001752772 | **LOC105371502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371505 | XR_934178 | **LOC105371505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.169 |
| 105371506 | NR_135644 | **DHX33-DT** | DHX33 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371507 | XR_001752773,XR_ | **LOC105371507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371508 | XR_934184,XR_934 | **LOC105371508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371509 | XR_934187,XR_934 | **LOC105371509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371512 | XR_934190,XR_934 | **LOC105371512** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371516 | XR_934194 | **LOC105371516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371517 | XR_934195 | **LOC105371517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.180 |
| 105371520 | XR_934201 | **LOC105371520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371525 | XR_001752781,XR_ | **LOC105371525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371526 | XR_934215 | **LOC105371526** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371529 | XR_001752785,XR_ | **LOC105371529** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371530 | XR_934221 | **LOC105371530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371531 | XR_934222 | **LOC105371531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.004 |
| 105371532 | XR_934224 | **LOC105371532** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.918 |
| 105371536 | XR_002958133 | **LOC105371536** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371540 | XR_934233 | **LOC105371540** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371541 | NR_146885 | **LINC02093** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105371543 | XR_934236,XR_934 | **LOC105371543** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371544 | XR_934239 | **LOC105371544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371545 | XR_934243 | **LOC105371545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371547 | XR_934244 | **LOC105371547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371551 | XR_934249 | **LOC105371551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371552 | XR_934250,XR_934 | **LOC105371552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371553 | XR_001753082 | **LOC105371553** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371554 | XR_001753079,XR_ | **LOC105371554** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.330 |
| 105371557 | XR_001753086,XR_ | **LOC105371557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371559 | XR_934264,XR_934 | **LOC105371559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371560 | XR_001753083,XR_ | **TBC1D26-AS1** | TBC1D26 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371561 | XR_001738275,XR_ | **LMX1A-AS2** | LMX1A antisense RNA 2. | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371562 | NR_146886 | **LINC02090** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.828 |
| 105371564 | NR_131243 | **SMCR2** | Smith-Magenis syndrom | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371566 | NR_164159 | **LOC105371566** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371567 | XR_001752809,XR_ | **LOC105371567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371569 | XR_002958130,XR_ | **LOC105371569** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371570 | XR_001752811 | **LOC105371570** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371573 | XR_002958129,XR_ | **LOC105371573** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371574 | XR_934306 | **LOC105371574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371578 | XR_001752814,XR_ | **LOC105371578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.896 |
| 105371579 | XR_934311 | **LOC105371579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371580 | XR_001753090,XR_ | **LOC105371580** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371581 | XR_922238 | **LOC105371581** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.869 |
| 105371582 | NR_146887 | **LINC02088** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371583 | XR_934317 | **LOC105371583** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371586 | XR_001737762 | **FAM78B-AS1** | FAM78B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 105371589 | XR_001752815,XR_ | **LOC105371589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371590 | NR_146890 | **LINC01675** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 105371592 | NR_136412 | **LOC105371592** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.863 |
| 105371595 | XR_942175,XR_942 | **LINC02002** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371597 | XR_942179,XR_942 | **LOC105371597** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371600 | XR_922247,XR_922 | **LOC105371600** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371601 | XR_922250 | **LOC105371601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371604 | XR_922259 | **LOC105371604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371605 | XR_922260 | **LOC105371605** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371606 | XR_922261 | **LOC105371606** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371608 | XR_001738283 | **LOC105371608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371609 | NR_146891 | **LINC01681** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371610 | XR_922277 | **LOC105371610** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371611 | XR_001738291,XR_ | **LOC105371611** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371614 | XR_922282 | **LOC105371614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371618 | XR_001738296 | **LOC105371618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371619 | XR_922291 | **LOC105371619** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371620 | XR_922293 | **LINC02776** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.863 |
| 105371622 | XR_922296 | **LOC105371622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 105371623 | XR_001738299,XR_ | **LOC105371623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371625 | XR_922299 | **LOC105371625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371629 | XR_922306 | **LOC105371629** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371630 | XR_922307 | **LOC105371630** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371631 | XR_922308,XR_922 | **LOC105371631** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371632 | XR_001738308,XR_ | **LOC105371632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371634 | XR_001738311,XR_ | **LOC105371634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371635 | XR_922328,XR_922 | **LOC105371635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371636 | XR_001738314 | **LOC105371636** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.075 |
| 105371637 | XR_922334 | **LOC105371637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 105371638 | XR_001738316,XR_ | **LINC02816** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371640 | XR_922337 | **LOC105371640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371642 | XR_922341 | **LOC105371642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371644 | NR_146548 | **LINC01688** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371646 | XR_922350,XR_922 | **LOC105371646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371648 | XR_001738335 | **LOC105371648** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371649 | XR_002958399,XR_ | **LOC105371649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105371651 | XR_922360 | **LOC105371651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371653 | XR_922362 | **GS1-204I12.4** | uncharacterized GS1-20 | lncRNA | 0 | 0 | 1 | 1 | 0.850 |
| 105371654 | XR_922364,XR_922 | **LOC105371654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371655 | XR_001738341 | **LOC105371655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371656 | XR_922370,XR_922 | **LOC105371656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371657 | XR_001738343,XR_ | **LOC105371657** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 0.980 |
| 105371658 | XR_001738344,XR_ | **LOC105371658** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371659 | XR_922375,XR_922 | **LOC105371659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371660 | NR_146892 | **LINC01680** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371661 | XR_001737813,XR_ | **LOC105371661** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371662 | XR_001738346 | **LOC105371662** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371664 | XR_002958418 | **LOC105371664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371665 | XR_001738349,XR_ | **LOC105371665** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371667 | XR_922386 | **LOC105371667** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371668 | XR_922387 | **LOC105371668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371670 | XR_922390 | **LOC105371670** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371671 | XR_922391 | **LOC105371671** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371672 | XR_922393 | **LOC105371672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371673 | NR_146895 | **LINC01724** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371674 | XR_922395 | **LOC105371674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371675 | XR_922396 | **LOC105371675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371677 | XR_922398 | **LOC105371677** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 0.976 |
| 105371679 | XR_922400 | **LOC105371679** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371680 | XR_922402 | **LOC105371680** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371682 | XR_922404 | **LOC105371682** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371683 | XR_922422 | **LOC105371683** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371684 | XR_001738375 | **LOC105371684** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371686 | XR_002958452 | **LOC105371686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.207 |
| 105371687 | XR_922432 | **LOC105371687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371688 | XR_001738391,XR_ | **LOC105371688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371689 | XR_922443 | **LOC105371689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371692 | XR_001738393,XR_ | **LOC105371692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.981 |
| 105371693 | XR_922454 | **LOC105371693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371694 | XR_001738412,XR_ | **LOC105371694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371695 | XR_922456 | **LOC105371695** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371698 | XR_922462 | **LOC105371698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371701 | XR_001738415,XR_ | **LOC105371701** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371702 | XR_922472 | **LOC105371702** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371703 | NR_135673 | **LOC105371703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371704 | XR_934632 | **LOC105371704** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371705 | XR_001753055 | **LOC105371705** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371708 | NR_146896 | **LINC01992** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371709 | XR_934637 | **LOC105371709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371710 | XR_934638 | **LOC105371710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371711 | XR_934639 | **LOC105371711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.924 |
| 105371712 | XR_934641 | **LOC105371712** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371716 | XR_001752822 | **LOC105371716** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105371720 | XR_001752824 | **LOC105371720** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371721 | XR_934656 | **LOC105371721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371722 | XR_934657 | **LOC105371722** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371723 | XR_001753095,XR_ | **LOC105371723** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105371725 | XR_934661 | **LOC105371725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371729 | XR_001738249 | **LOC105371729** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371730 | NR_136413 | **LOC105371730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371731 | XR_001752825,XR_ | **LOC105371731** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371732 | XR_934666 | **LOC105371732** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371734 | XR_934677 | **LOC105371734** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 105371735 | XR_001752842 | **LOC105371735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371737 | XR_001752836,XR_ | **LOC105371737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371738 | XR_934687 | **LOC105371738** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371739 | XR_934688 | **LOC105371739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371740 | XR_934689 | **LOC105371740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371741 | XR_934690 | **LOC105371741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105371742 | XR_001752843,XR_ | **LOC105371742** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371743 | NR_135479 | **SNHG30** | small nucleolar RNA hos | lncRNA | 40 | 37 | 41 | 38 | 0.932 |
| 105371744 | XR_001752852,XR_ | **LOC105371744** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.090 |
| 105371745 | XR_934698,XR_934 | **LOC105371745** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 2.058 |
| 105371746 | XR_001752855,XR_ | **LOC105371746** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371747 | XR_934703 | **LOC105371747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371749 | XR_934708,XR_934 | **LOC105371749** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.885 |
| 105371750 | XR_001752870,XR_ | **LOC105371750** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.997 |
| 105371751 | XR_001752872,XR_ | **LOC105371751** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371753 | XR_934717 | **LOC105371753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371754 | XR_001752875,XR_ | **LOC105371754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371755 | XR_002958135 | **LOC105371755** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371756 | XR_002958136 | **LOC105371756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371757 | XR_934720,XR_934 | **LOC105371757** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371760 | XR_934732 | **LOC105371760** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371761 | XR_934734 | **LOC105371761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371762 | XR_934735 | **LOC105371762** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371763 | NR_158157 | **LOC105371763** | uncharacterized LOC105 | lncRNA | 3 | 3 | 4 | 4 | 1.090 |
| 105371764 | XR_001752879 | **LOC105371764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371766 | NR_135645 | **LINC02079** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371767 | XR_934741 | **LOC105371767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371768 | XR_001753098,XR_ | **LOC105371768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371770 | XR_934745 | **LOC105371770** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371771 | XR_934746 | **LOC105371771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371773 | XR_934749 | **LOC105371773** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.785 |
| 105371775 | XR_934751 | **LOC105371775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371776 | XR_934752,XR_934 | **LOC105371776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371777 | XR_934754,XR_934 | **LOC105371777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371778 | XR_001753056 | **LOC105371778** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371781 | XR_001752888,XR_ | **LOC105371781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105371785 | XR_934768 | **LOC105371785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371786 | XR_001752893,XR_ | **LINC02594** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371787 | XR_001752898 | **LOC105371787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371788 | gene-LOC10537178 | **LOC105371788** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105371789 | NR_136415 | **LOC105371789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371790 | XR_934778 | **LOC105371790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371791 | XR_934779 | **LOC105371791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371792 | XR_001752905,XR_ | **LOC105371792** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 105371793 | XR_934781 | **LOC105371793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371795 | NR_135646 | **LOC105371795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.861 |
| 105371796 | XR_934786 | **LOC105371796** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371798 | XR_001753126,XR_ | **LINC01974** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371800 | XR_001752916,XR_ | **LOC105371800** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371802 | XR_002958155 | **LOC105371802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371807 | NR_131239,NR_13 | **THRA1/BTR** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371808 | XR_934811 | **LOC105371808** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371809 | XR_001752925,XR_ | **LINC02086** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 105371811 | XR_934823 | **LOC105371811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371812 | XR_934824 | **LOC105371812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371813 | XR_001752926 | **LOC105371813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371814 | NR_135674 | **LOC105371814** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.164 |
| 105371816 | XR_001752927,XR_ | **LOC105371816** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.071 |
| 105371818 | XR_001752932,XR_ | **LOC105371818** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.922 |
| 105371819 | XR_934836 | **LOC105371819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371822 | XR_001752933,XR_ | **LOC105371822** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371824 | NR_135675 | **LOC105371824** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371825 | XR_001752940 | **LOC105371825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371828 | NR_146897 | **LINC02073** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371829 | XR_934859 | **LOC105371829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371830 | NR_146898 | **LINC01982** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371831 | NR_146899 | **LINC02089** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371833 | XR_002958131,XR_ | **LOC105371833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371836 | XR_001752945,XR_ | **LOC105371836** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371840 | XR_001752949,XR_ | **LOC105371840** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371841 | XR_934884 | **LOC105371841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371842 | XR_934885 | **LOC105371842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371843 | XR_934886 | **LOC105371843** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371845 | XR_934887 | **LOC105371845** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371847 | XR_934889 | **LOC105371847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371848 | XR_001752958 | **LOC105371848** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371849 | NR_135648 | **LOC105371849** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.348 |
| 105371850 | XR_934893 | **LOC105371850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371853 | XR_934896 | **LOC105371853** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371854 | XR_934897 | **LOC105371854** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371855 | NR_147886 | **LOC105371855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371856 | XR_001752963,XR_ | **LOC105371856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371857 | XR_001752965 | **LOC105371857** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371858 | XR_001752969,XR_ | **LOC105371858** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371860 | XR_934918 | **LOC105371860** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 105371864 | XR_001752975,XR_ | **LOC105371864** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.658 |
| 105371867 | XR_001752976,XR_ | **LOC105371867** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371870 | XR_001752981,XR_ | **LOC105371870** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.092 |
| 105371871 | XR_934938 | **LOC105371871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371873 | XR_001752985,XR_ | **LOC105371873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371874 | XR_001752986 | **LOC105371874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371877 | XR_001752987,XR_ | **LOC105371877** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371878 | XR_934949 | **LOC105371878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371879 | XR_934950 | **LOC105371879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371880 | NR_145982 | **LOC105371880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371881 | XR_934952 | **LOC105371881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371882 | XR_934953 | **LOC105371882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371884 | XR_934956 | **LOC105371884** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371887 | XR_001752993,XR_ | **LOC105371887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371888 | XR_001752997,XR_ | **LOC105371888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371891 | XR_934970,XR_934 | **LOC105371891** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371893 | XR_934976,XR_934 | **LOC105371893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.144 |
| 105371894 | XR_001753013 | **LOC105371894** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371896 | XR_934982 | **LOC105371896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 105371899 | NR_136416,NR_13 | **LOC105371899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371900 | XR_001753023 | **LOC105371900** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371901 | XR_001753024,XR_ | **LOC105371901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.120 |
| 105371903 | XR_934990 | **LOC105371903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371906 | XR_001753025,XR_ | **LACAT1** | lung adenocarcinoma-as | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371907 | NR_136503 | **SEPTIN9-DT** | SEPTIN9 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371908 | XR_934998,XR_934 | **LOC105371908** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371909 | XR_935002 | **LOC105371909** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371910 | NR_164160 | **LOC105371910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.233 |
| 105371912 | XR_935004 | **LOC105371912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371919 | NR_146504 | **LINC01977** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371922 | XR_001753037,XR_ | **LOC105371922** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371925 | NR_135654 | **LOC105371925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371926 | XR_935042,XR_935 | **LOC105371926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.941 |
| 105371927 | XR_935047 | **LINC01971** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371929 | XR_935049 | **LOC105371929** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371932 | XM_017025492 | **LOC105371932** | uncharacterized LOC105 | protein_coding | 2 | 2 | 3 | 3 | 0.923 |
| 105371933 | XM_017025493 | **LOC105371933** | uncharacterized LOC105 | protein_coding | 1 | 1 | 2 | 2 | 1.303 |
| 105371934 | XR_001752881,XR_ | **LOC105371934** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.108 |
| 105371936 | XR_934899 | **LOC105371936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371939 | XR_933953 | **LOC105371939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.097 |
| 105371941 | XR_933959 | **LOC105371941** | uncharacterized LOC105 | lncRNA | 7 | 7 | 8 | 8 | 1.023 |
| 105371942 | XR_001753132 | **LOC105371942** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.090 |
| 105371948 | XR_933965 | **LOC105371948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371950 | XR_001753311,XR_ | **LOC105371950** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371951 | XR_001753315,XR_ | **LOC105371951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371952 | XR_935082 | **LOC105371952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371953 | XR_001753318 | **LOC105371953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105371954 | XR_002958193,XR_ | **LOC105371954** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371956 | XR_935087 | **LOC105371956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371957 | XR_935088,XR_935 | **LOC105371957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371958 | XR_001753320 | **LOC105371958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371959 | XR_935093 | **LOC105371959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371960 | XR_935094 | **LOC105371960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371961 | XR_001753321,XR_ | **LOC105371961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371963 | XR_001753322,XR_ | **LOC105371963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371964 | NR_146506 | **LINC01895** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371965 | XR_935106 | **LOC105371965** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371967 | XR_002958220,XR_ | **LOC105371967** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371968 | XR_935109 | **LOC105371968** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371969 | NR_146900 | **LINC01892** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371970 | XR_001753331,XR_ | **LOC105371970** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371972 | XR_001753341,XR_ | **LOC105371972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371973 | XR_935118 | **LOC105371973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371974 | XR_002958224,XR_ | **LOC105371974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371975 | XR_935123 | **LOC105371975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371976 | XR_001753342,XR_ | **LOC105371976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371980 | XR_001753550,XR_ | **LOC105371980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371981 | XR_935131 | **LOC105371981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371982 | XR_935133,XR_935 | **LOC105371982** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371983 | XR_935135 | **LOC105371983** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371984 | XR_935136,XR_935 | **LOC105371984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371985 | XR_001753344,XR_ | **LOC105371985** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371986 | XR_001753347,XR_ | **LOC105371986** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371988 | XR_935142 | **LOC105371988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371989 | XR_001753348 | **LOC105371989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371990 | XR_001753349,XR_ | **LOC105371990** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.132 |
| 105371992 | XR_935153 | **LOC105371992** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371993 | XR_935154 | **LOC105371993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371994 | NR_146901 | **LINC01928** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371995 | XR_935157 | **LOC105371995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371996 | XR_935158 | **LOC105371996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105371998 | NR_136514 | **LOC105371998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372003 | XR_001753364,XR_ | **LOC105372003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372004 | XR_935171,XR_935 | **LOC105372004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372005 | XR_935176 | **LOC105372005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372006 | XR_935177 | **LOC105372006** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372007 | XR_935178 | **LOC105372007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372008 | XR_935179,XR_935 | **LOC105372008** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372009 | XR_002958198,XR_ | **LOC105372009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372010 | XR_935187 | **LOC105372010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372016 | XR_935276,XR_935 | **LOC105372016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372017 | XR_935279 | **LOC105372017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372018 | XR_001753368,XR_ | **LOC105372018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372019 | XR_935282 | **LOC105372019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372023 | XR_935286 | **LOC105372023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.066 |
| 105372026 | XR_001753371,XR_ | **LOC105372026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.020 |
| 105372027 | XR_001753373,XR_ | **LOC105372027** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372028 | NR_134604 | **LOC105372028** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372029 | XR_935298 | **LOC105372029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372030 | NR_146903 | **LINC01894** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372031 | XR_001753377,XR_ | **LOC105372031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372034 | XR_935306 | **LOC105372034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372035 | XR_935314 | **LOC105372035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372036 | XR_001753383 | **LOC105372036** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372037 | XR_002958212 | **LINC01908** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372038 | NR_134589 | **LOC105372038** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372040 | XR_935320 | **LOC105372040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372041 | XR_935321,XR_935 | **LOC105372041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372042 | XR_935323,XR_935 | **LOC105372042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372043 | XR_935326 | **LOC105372043** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372044 | XR_935327,XR_935 | **LOC105372044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372045 | XR_935329,XR_935 | **LOC105372045** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372046 | XR_001753387,XR_ | **LOC105372046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372047 | XR_935332 | **LOC105372047** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372049 | XR_001753388,XR_ | **LOC105372049** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372055 | XR_935342 | **LOC105372055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372058 | XR_001753389,XR_ | **LOC105372058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372059 | XR_001753402,XR_ | **LOC105372059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372061 | XR_001753404,XR_ | **LOC105372061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372063 | XR_935376 | **LOC105372063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372064 | XR_001753411,XR_ | **LOC105372064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372065 | XR_935378 | **LOC105372065** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372066 | XR_001753414,XR_ | **LOC105372066** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.871 |
| 105372068 | NR_134588 | **LOC105372068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372069 | NR_134585 | **LOC105372069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372071 | NR_132982 | **LOC105372071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372072 | XR_935390 | **LOC105372072** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372073 | XR_935391 | **LOC105372073** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372074 | XR_935392 | **LOC105372074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372076 | XR_935395,XR_935 | **LOC105372076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372077 | XR_935397 | **LOC105372077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372079 | NR_151703 | **LINC01902** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372080 | XR_001753426 | **LINC01901** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372081 | XR_935407 | **LOC105372081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372082 | XR_935408 | **LOC105372082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372083 | XR_001753428 | **LOC105372083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372084 | XR_935410 | **LOC105372084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372085 | XR_935411 | **LOC105372085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372087 | XR_935414 | **LOC105372087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372088 | XR_935415 | **LOC105372088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372089 | XR_935417 | **LOC105372089** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372091 | XR_935421 | **LOC105372091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372092 | XR_001753558,XR_ | **LOC105372092** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |
| 105372093 | XR_001753561,XR_ | **LOC105372093** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372095 | XR_002958191 | **LOC105372095** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372096 | XR_935430 | **LOC105372096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372097 | XR_001753432,XR_ | **LOC105372097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372098 | XR_002958192,XR_ | **LOC105372098** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 105372100 | XR_935434,XR_935 | **LOC105372100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372101 | XR_935441 | **LOC105372101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372104 | XR_001753437,XR_ | **LOC105372104** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372105 | XR_935449 | **LOC105372105** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.128 |
| 105372106 | XR_001753441,XR_ | **LOC105372106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 105372107 | XR_001753440,XR_ | **LOC105372107** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372108 | XR_935456 | **LOC105372108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372112 | XR_001753446 | **LOC105372112** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372114 | XR_935466 | **LOC105372114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372115 | XR_001753448 | **LOC105372115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 105372116 | XR_935467 | **LOC105372116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372117 | XR_935468 | **LOC105372117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.009 |
| 105372118 | XR_001753450 | **LOC105372118** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.096 |
| 105372120 | XR_935471,XR_935 | **LOC105372120** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372121 | XR_001753538,XR_ | **LOC105372121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372125 | XR_935478 | **LOC105372125** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372126 | XR_935479,XR_935 | **LOC105372126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372127 | NR_132985 | **TCF4-AS1** | TCF4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372130 | XR_001753451,XR_ | **LOC105372130** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372131 | XR_002958213,XR_ | **LOC105372131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372132 | XR_935498 | **LOC105372132** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372135 | XR_935514 | **LOC105372135** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372136 | XR_935515 | **LOC105372136** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372138 | NR_149129 | **LINC02565** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372140 | XR_001753542,XR_ | **LOC105372140** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105372141 | XR_001753464,XR_ | **LOC105372141** | uncharacterized LOC105 | lncRNA | 3 | 3 | 4 | 4 | 0.859 |
| 105372143 | XR_935527,XR_935 | **LOC105372143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372145 | XR_935535 | **LOC105372145** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372146 | XR_935536,XR_935 | **LOC105372146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372147 | NR_146904 | **LINC01926** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372151 | XR_935546,XR_935 | **LOC105372151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372152 | XR_935549 | **LOC105372152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372155 | XR_935553,XR_935 | **LOC105372155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372156 | XR_935555,XR_935 | **LOC105372156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372157 | XR_001753472,XR_ | **LOC105372157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372158 | XR_002958201 | **LOC105372158** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372159 | XR_935562 | **LOC105372159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372160 | XR_001753473,XR_ | **LOC105372160** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372161 | XR_935570 | **LOC105372161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372165 | XR_935576 | **LOC105372165** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.049 |
| 105372166 | XR_935577 | **LOC105372166** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372167 | XR_935578 | **LOC105372167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372168 | XR_935582 | **LOC105372168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372169 | XR_935583 | **LOC105372169** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372170 | XR_935584 | **LOC105372170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372172 | XR_001753486,XR_ | **LOC105372172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372173 | XR_001753481,XR_ | **LOC105372173** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372174 | XR_935590 | **LOC105372174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372175 | XR_935591 | **LINC01912** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372178 | XR_935595 | **LOC105372178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372179 | NR_134579 | **LOC105372179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372180 | XR_001753492,XR_ | **LOC105372180** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 105372185 | XR_001753499,XR_ | **LOC105372185** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372186 | XR_935611 | **LOC105372186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372187 | XR_935612,XR_935 | **LOC105372187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372188 | XR_935610 | **LOC105372188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372189 | XR_001753545 | **LOC105372189** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372190 | XR_001753503 | **LOC105372190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372191 | XR_935622 | **LOC105372191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372200 | XR_935634,XR_935 | **LOC105372200** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372201 | XR_935637,XR_935 | **LOC105372201** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372202 | XR_935640 | **LOC105372202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372203 | XR_002958216,XR_ | **LOC105372203** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372204 | XM_011526288 | **LOC105372204** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372206 | XR_935643 | **LOC105372206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372207 | NR_146507 | **LINC01893** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372208 | XR_935646,XR_935 | **LOC105372208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372209 | XR_002958199,XR_ | **LOC105372209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372210 | XR_935654 | **LOC105372210** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372211 | XR_935655 | **LOC105372211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372212 | XR_935657 | **LOC105372212** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 105372213 | XR_935658 | **LOC105372213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372214 | XR_001753509 | **LOC105372214** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372217 | XR_001753507,XR_ | **LOC105372217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.179 |
| 105372218 | XR_935668,XR_935 | **LOC105372218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372219 | XR_935670 | **LOC105372219** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372220 | XR_935674 | **LOC105372220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372221 | XR_935675 | **LOC105372221** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372224 | XR_935678 | **LOC105372224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372225 | XR_001753513,XR_ | **LOC105372225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372226 | XR_935686,XR_935 | **LOC105372226** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372228 | XR_935693,XR_935 | **LOC105372228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372232 | XR_936221 | **LOC105372232** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.386 |
| 105372233 | XR_936223,XR_936 | **LOC105372233** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.988 |
| 105372234 | XR_936226 | **LOC105372234** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.912 |
| 105372235 | XR_001753830 | **LOC105372235** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.173 |
| 105372236 | XR_936233 | **LOC105372236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372238 | XR_936239 | **LOC105372238** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 105372240 | XR_936241,XR_936 | **LOC105372240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372242 | XR_001754026,XR_ | **LOC105372242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372244 | XR_936253,XR_936 | **LOC105372244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372245 | XR_936260,XR_936 | **LOC105372245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372246 | XR_936264,XR_936 | **LOC105372246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372248 | XR_936268 | **LOC105372248** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372249 | XR_001753848,XR_ | **LOC105372249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372250 | XR_936273,XR_936 | **LOC105372250** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.919 |
| 105372252 | XR_936277,XR_936 | **LOC105372252** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372253 | XR_936280 | **LOC105372253** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372255 | XR_936282,XR_936 | **LOC105372255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372256 | XR_936288 | **LOC105372256** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372261 | XR_936293,XR_936 | **LOC105372261** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372262 | XR_936296 | **LOC105372262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372263 | XR_001753855,XR_ | **LOC105372263** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372266 | XR_936301,XR_936 | **LOC105372266** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 0.977 |
| 105372267 | NM_001378599,NM | **NFILZ** | NFIL3 like basic leucine : | protein_coding | 1 | 1 | 2 | 2 | 0.699 |
| 105372268 | XR_001753862,XR_ | **LOC105372268** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105372269 | XM_011528461,XR_ | **LOC105372269** | endogenous retrovirus gi | protein_coding | 0 | 0 | 1 | 1 | 1.105 |
| 105372270 | XR_936312 | **LOC105372270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372272 | XR_001753864,XR_ | **LOC105372272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372273 | NR_134909 | **LOC105372273** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372274 | XR_936316 | **HSPC102** | uncharacterized HSPC10 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372275 | XR_936324 | **LOC105372275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372278 | XR_001753868,XR_ | **LOC105372278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105372279 | XR_001753869 | **LOC105372279** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372280 | NM_001316692 | **GNG14** | G protein subunit gamma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372281 | XR_936336 | **LOC105372281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372282 | XR_001753871 | **LOC105372282** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372283 | XR_936339 | **LOC105372283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372284 | XR_001754028,XR_ | **LOC105372284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372288 | NR_134908 | **LINC01841** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372290 | XR_936353 | **LINC01764** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372291 | XR_936355 | **LOC105372291** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372292 | NR_146442 | **LINC01855** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372295 | XR_936359,XR_936 | **LOC105372295** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.026 |
| 105372296 | XR_936361 | **LOC105372296** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.870 |
| 105372298 | XR_936362 | **LOC105372298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372300 | XR_936365 | **LOC105372300** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.899 |
| 105372308 | XR_001754062 | **LOC105372308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372309 | XR_936387 | **LOC105372309** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372310 | XR_001754063,XR_ | **LOC105372310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372311 | XR_936394 | **LOC105372311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372314 | XR_936407 | **LOC105372314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372316 | XR_936408 | **LOC105372316** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372317 | XR_936409,XR_936 | **LOC105372317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372318 | XR_936412 | **LOC105372318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372319 | XM_017027571,XR_ | **LOC105372319** | zinc finger protein 430-li | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372321 | XR_001754051,XR_ | **LOC105372321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372323 | XR_001754056,XR_ | **LOC105372323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372324 | XR_936431 | **LOC105372324** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372325 | XR_001754072,XR_ | **LOC105372325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372326 | XR_001754070,XR_ | **LOC105372326** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372328 | XR_001754082,XR_ | **LOC105372328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372330 | XR_001754094,XR_ | **LOC105372330** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372331 | XR_936469,XR_936 | **LOC105372331** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372332 | XR_936472,XR_936 | **LOC105372332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372334 | XR_936479 | **LOC105372334** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372335 | XR_936480,XR_936 | **LOC105372335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372337 | XR_936485 | **LOC105372337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372338 | XR_001753885,XR_ | **LOC105372338** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372339 | XR_936488 | **LOC105372339** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372345 | XR_935879 | **LOC105372345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105372346 | XR_935883 | **LOC105372346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372347 | XR_001753886 | **LOC105372347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372348 | XR_935885 | **LOC105372348** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372349 | XR_935886 | **LOC105372349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 105372352 | XR_002958393,XR_ | **LOC105372352** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.311 |
| 105372353 | XR_935896 | **LOC105372353** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.655 |
| 105372354 | XR_935897 | **LOC105372354** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372355 | XR_935898 | **LOC105372355** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372356 | XR_001753892,XR_ | **LOC105372356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372358 | XR_935901,XR_935 | **LOC105372358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372360 | XR_002958416,XR_ | **LINC02841** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372361 | XR_935905,XR_935 | **LOC105372361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372362 | XR_935907 | **LOC105372362** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372363 | XR_001753904,XR_ | **LINC01837** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372364 | XR_935909,XR_935 | **LOC105372364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372368 | XR_935916 | **LOC105372368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372370 | XR_001754035,XR_ | **LOC105372370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372371 | XR_935921 | **LOC105372371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372374 | XR_935923 | **LOC105372374** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372377 | XR_935930 | **LOC105372377** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372379 | XR_935936,XR_935 | **LOC105372379** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372380 | XR_935939 | **LOC105372380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372383 | NR_136525 | **LOC105372383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 105372385 | XR_935954 | **LOC105372385** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372390 | XR_001754095 | **LOC105372390** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372394 | XR_002958407 | **LOC105372394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372395 | XR_935961,XR_935 | **LOC105372395** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372396 | XR_001753934 | **LOC105372396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372397 | NR_134907 | **LOC105372397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372399 | XR_935966 | **LOC105372399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372401 | XR_935968 | **LOC105372401** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.065 |
| 105372404 | XR_935971 | **LOC105372404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372405 | XR_935972 | **LOC105372405** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372407 | XR_935974 | **LOC105372407** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.849 |
| 105372410 | XR_935977 | **LOC105372410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372411 | XR_001753942,XR_ | **LOC105372411** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.760 |
| 105372412 | XM_017027562,XM_ | **LOC105372412** | phospholipase A2 inhibit | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372414 | XR_935981 | **LOC105372414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372419 | NR_134887 | **GEMIN7-AS1** | GEMIN7 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.763 |
| 105372420 | XR_935986 | **LOC105372420** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372421 | XR_001753960,XR_ | **LOC105372421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.795 |
| 105372424 | XR_935996,XR_935 | **LOC105372424** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372426 | XR_936001 | **LOC105372426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372427 | XR_936003,XR_936 | **LOC105372427** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 105372429 | XR_936008,XR_936 | **ZNF114-AS1** | ZNF114 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372431 | XR_936013,XR_936 | **LOC105372431** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372432 | XR_936017 | **LOC105372432** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372434 | XR_936019 | **LOC105372434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372435 | XR_936020 | **LOC105372435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372436 | XR_936021 | **LOC105372436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372437 | XR_001753975,XR_ | **LOC105372437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.911 |
| 105372439 | XR_936026 | **LOC105372439** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.098 |
| 105372440 | NR_134883,NR_134 | **LOC105372440** | uncharacterized LOC105 | lncRNA | 2 | 0 | 3 | 1 | 0.561 |
| 105372441 | NR_131203,NR_131 | **LOC105372441** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372442 | XR_001753976,XR_ | **LOC105372442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372444 | NR_136526 | **LINC01872** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372446 | XR_002958395,XR_ | **LOC105372446** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.857 |
| 105372448 | XR_936049 | **LOC105372448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372449 | XR_001753993,XR_ | **LOC105372449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372451 | XR_001754102,XR_ | **LOC105372451** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.561 |
| 105372452 | XR_936060 | **LOC105372452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372453 | XR_936062 | **LOC105372453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372457 | XR_936066 | **MYADM-AS1** | MYADM antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372460 | XR_001754038 | **LOC105372460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372461 | XR_936073 | **LOC105372461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372462 | XR_936075,XR_936 | **LOC105372462** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.321 |
| 105372465 | XR_936081 | **LOC105372465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372468 | XR_936088 | **LOC105372468** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.955 |
| 105372470 | XR_936090 | **LOC105372470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 105372471 | XR_001754019,XR_ | **LOC105372471** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372472 | XR_936108 | **LOC105372472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372473 | XR_001754023,XR_ | **LOC105372473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372475 | XR_936111 | **LOC105372475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372476 | NR_136528,NR_136 | **ZNF460-AS1** | ZNF460 antisense RNA : | lncRNA | 2 | 1 | 3 | 2 | 0.846 |
| 105372478 | XM_011527586 | **LOC105372478** | taste receptor type 1 mei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372479 | XR_936125 | **LOC105372479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372480 | NR_144444 | **LOC105372480** | uncharacterized LOC105 | lncRNA | 7 | 5 | 8 | 6 | 0.807 |
| 105372481 | NR_144445 | **ERVK3-1** | endogenous retrovirus g | lncRNA | 85 | 81 | 86 | 82 | 0.959 |
| 105372482 | XR_936129 | **LOC105372482** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.984 |
| 105372483 | NR_136527 | **LOC105372483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 105372484 | XR_936130 | **LOC105372484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372485 | XR_001754024 | **LOC105372485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.859 |
| 105372486 | XR_936132 | **LOC105372486** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 0.939 |
| 105372489 | XR_001753817 | **LOC105372489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372491 | XR_001754453,XR_ | **LOC105372491** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372492 | XR_937185 | **LOC105372492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372493 | NR_136535 | **LOC105372493** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.828 |
| 105372494 | XR_001754456,XR_ | **LOC105372494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372496 | XR_001754455,XR_ | **LOC105372496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.074 |
| 105372497 | XR_937193 | **LOC105372497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372498 | XR_937198 | **LOC105372498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372499 | XR_001754464 | **LOC105372499** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372501 | XR_001754472,XR_ | **LOC105372501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 105372502 | XR_937202 | **LOC105372502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372503 | XR_937203 | **LOC105372503** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372504 | XR_937204 | **LOC105372504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372505 | XR_001754476 | **LOC105372505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372506 | XR_937208 | **LOC105372506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372507 | XR_937209,XR_937 | **LOC105372507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372508 | XR_937212 | **LOC105372508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372509 | XR_001754709 | **LOC105372509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372510 | XR_937214 | **LOC105372510** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372511 | XR_937215 | **LOC105372511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372513 | XR_001754480,XR_ | **LOC105372513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 105372514 | XR_937224 | **LOC105372514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372516 | NR_146909 | **LINC01713** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372517 | XR_937228,XR_937 | **LOC105372517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372518 | XR_937230,XR_937 | **LOC105372518** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372520 | XR_001754487,XR_ | **LOC105372520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 105372521 | XR_001754731,XR_ | **LOC105372521** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372522 | XR_001754736,XR_ | **LOC105372522** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372523 | XR_001754490,XR_ | **LOC105372523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372524 | XR_001754492,XR_ | **LOC105372524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372525 | XR_001754495,XR_ | **LOC105372525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372527 | XR_001754710,XR_ | **LOC105372527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372528 | XR_937260 | **LOC105372528** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372529 | XR_937261 | **LOC105372529** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.875 |
| 105372530 | XR_937263,XR_937 | **LOC105372530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372531 | XR_937265 | **LOC105372531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372532 | XR_937266,XR_937 | **LOC105372532** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372535 | XR_937273,XR_937 | **LOC105372535** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372539 | XR_001754501,XR_ | **LOC105372539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372541 | XR_937285 | **LOC105372541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372542 | XR_937286 | **LOC105372542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372544 | XR_937288,XR_937 | **LOC105372544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372545 | XR_937290 | **LOC105372545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105372546 | XR_001754503,XR_ | **LOC105372546** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372547 | XR_937294 | **LOC105372547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372548 | XR_937295,XR_937 | **LOC105372548** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372549 | XR_937298 | **LOC105372549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372550 | XR_001754514,XR_ | **ZNF133-AS1** | ZNF133 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372551 | XR_937302 | **LOC105372551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372553 | XR_937308 | **LOC105372553** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.241 |
| 105372554 | XR_937310 | **LOC105372554** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372555 | XR_937311,XR_937 | **LOC105372555** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372556 | NR_147212 | **LINC00237** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372558 | XR_001754526,XR_ | **LOC105372558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372560 | XR_937331 | **LOC105372560** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372561 | XR_001754534,XR_ | **LOC105372561** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372562 | XR_937336,XR_937 | **LOC105372562** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372563 | XR_001754711,XR_ | **LOC105372563** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372564 | XR_001754535,XR_ | **LOC105372564** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372566 | NR_146527,NR_146 | **LINC01747** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372567 | XR_937350 | **LOC105372567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372568 | XR_937351 | **LOC105372568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372571 | XR_937379,XR_937 | **LOC105372571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 105372572 | XR_937384 | **NXT1-AS1** | NXT1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.697 |
| 105372573 | XR_937385,XR_937 | **LOC105372573** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372574 | XR_937387 | **LOC105372574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372575 | XR_937389 | **LOC105372575** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.211 |
| 105372576 | XR_001754557,XR_ | **LOC105372576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372577 | XR_001754558,XR_ | **LOC105372577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372578 | XR_001754563,XR_ | **LOC105372578** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.238 |
| 105372579 | XR_001754564 | **LOC105372579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.948 |
| 105372581 | XR_937403 | **LOC105372581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372582 | NR_135006 | **LOC105372582** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.800 |
| 105372585 | XM_017028184 | **LOC105372585** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372586 | XR_001754570,XR_ | **LOC105372586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372587 | XR_942229,XR_942 | **FAM242A** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372588 | XR_936669 | **LOC105372588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372589 | XR_001754576 | **BCL2L1-AS1** | BCL2L1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.742 |
| 105372592 | XR_936679 | **LOC105372592** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372593 | XR_936682,XR_936 | **LOC105372593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372594 | XR_936685 | **LOC105372594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372599 | XR_936690 | **LOC105372599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372602 | XR_936695 | **LOC105372602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372606 | XR_936699 | **LOC105372606** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372608 | XR_936701,XR_936 | **LINC01746** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372609 | XR_936703,XR_936 | **LOC105372609** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372613 | XR_936713 | **LOC105372613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372614 | XR_001754592,XR_ | **LOC105372614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372616 | XR_936716 | **LOC105372616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372617 | XR_001754593 | **LOC105372617** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372618 | XR_936718 | **LOC105372618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372620 | XR_936721 | **LOC105372620** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372621 | XR_936724 | **LOC105372621** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372622 | XR_001754614,XR_ | **LOC105372622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372623 | XR_936733 | **LOC105372623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372624 | XR_001754599,XR_ | **LOC105372624** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372625 | XR_936739,XR_936 | **LOC105372625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372626 | NR_134577 | **LINC01728** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372629 | XR_001754617,XR_ | **LOC105372629** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372630 | XR_936761,XR_936 | **LOC105372630** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372631 | NR_159957 | **LOC105372631** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.046 |
| 105372632 | XR_936772 | **LOC105372632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372633 | NR_146919 | **LOC105372633** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372636 | XR_936784,XR_936 | **LOC105372636** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372637 | XR_936787,XR_936 | **LOC105372637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372639 | XR_001754654,XR_ | **LOC105372639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372640 | XR_936803,XR_936 | **LOC105372640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372641 | XR_936807,XR_936 | **LOC105372641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372643 | XR_001754655,XR_ | **LOC105372643** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372645 | XR_936815 | **LOC105372645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372646 | XR_936817 | **LOC105372646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372647 | XR_001754658 | **LOC105372647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372648 | XR_936819 | **LOC105372648** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372649 | XR_001754659,XR_ | **LOC105372649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372651 | XR_001754713,XR_ | **LOC105372651** | uncharacterized LOC105 | lncRNA | 3 | 4 | 4 | 5 | 1.454 |
| 105372652 | XR_001754661,XR_ | **LOC105372652** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372653 | NR_134564 | **LOC105372653** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.831 |
| 105372654 | XR_936828,XR_936 | **LOC105372654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372655 | XR_936831,XR_936 | **LOC105372655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372656 | XR_936835 | **LOC105372656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372657 | XR_936836,XR_936 | **LOC105372657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 105372659 | XR_001754662,XR_ | **LOC105372659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372661 | XR_001754665,XR_ | **LOC105372661** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.756 |
| 105372662 | XR_001754668,XR_ | **LOC105372662** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372663 | XR_936848 | **LOC105372663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372664 | XR_936849 | **LOC105372664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372665 | XR_936854,XR_936 | **LOC105372665** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372666 | XR_001754670,XR_ | **LOC105372666** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372667 | XR_936859 | **LOC105372667** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372668 | XR_936864,XR_936 | **LOC105372668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372669 | XR_001754675,XR_ | **LOC105372669** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372671 | XR_001754720 | **LOC105372671** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372672 | NR_134576 | **LOC105372672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372675 | XR_001754680,XR_ | **LOC105372675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372676 | XR_001754682,XR_ | **LOC105372676** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372677 | XR_936887 | **LOC105372677** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372678 | XR_001754723,XR_ | **LOC105372678** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372679 | XR_936890 | **LOC105372679** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372680 | XR_001754685,XR_ | **LOC105372680** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372681 | XR_936894 | **LOC105372681** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.180 |
| 105372682 | NR_136537 | **LINC01716** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372683 | XR_936895,XR_936 | **LOC105372683** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372685 | XR_936901,XR_936 | **LOC105372685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372686 | XR_936906 | **LOC105372686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372687 | XR_001754687 | **LOC105372687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372688 | XR_936911 | **LOC105372688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372690 | XR_936914 | **LOC105372690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372692 | XR_001754688,XR_ | **LOC105372692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372693 | XR_936923 | **LOC105372693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372694 | XR_001754691,XR_ | **LOC105372694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372695 | NR_134566 | **LOC105372695** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372696 | XR_936930 | **LOC105372696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372697 | XR_936937,XR_936 | **LOC105372697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372698 | XR_001754751,XR_ | **LOC105372698** | uncharacterized LOC105 | misc_RNA | 0 | 0 | 1 | 1 | 0.990 |
| 105372699 | XR_002958569,XR_ | **LOC105372699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372700 | XR_936954 | **LOC105372700** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372701 | XR_936956 | **LOC105372701** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372703 | XR_001754696,XR_ | **LOC105372703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372704 | XM_011529123 | **LOC105372704** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 0.892 |
| 105372705 | XR_936960 | **LOC105372705** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.131 |
| 105372706 | XR_936962,XR_936 | **LOC105372706** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372707 | XR_936965 | **LOC105372707** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372708 | XR_936966 | **LOC105372708** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.034 |
| 105372709 | XR_936967 | **LOC105372709** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.069 |
| 105372710 | XR_001754697,XR_ | **LOC105372710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.896 |
| 105372711 | XR_001754698,XR_ | **LOC105372711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105372712 | XR_001754704,XR_ | **WI2-87327B8.2** | uncharacterized WI2-873 | lncRNA | 10 | 7 | 11 | 8 | 0.749 |
| 105372714 | XM_017028195,XM_ | **LOC105372714** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372716 | XR_001754705,XR_ | **LOC105372716** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105372717 | XR_936988,XR_936 | **LOC105372717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 105372718 | XR_001754706 | **LOC105372718** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372719 | XR_936993,XR_936 | **LOC105372719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372720 | XR_001754758,XR_ | **KCNQ2-AS1** | KCNQ2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372721 | XR_937000 | **LOC105372721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372724 | XR_937002 | **LOC105372724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372725 | XR_937004 | **LOC105372725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372726 | XR_937005 | **LOC105372726** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372727 | XR_937006,XR_937 | **LOC105372727** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372730 | XR_001754941 | **LINC01666** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372731 | gene-CDRT15P9 | **CDRT15P9** | . | pseudogene | 0 | 0 | 1 | 1 | 0.844 |
| 105372733 | XR_001754952,XR_ | **LOC105372733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.901 |
| 105372734 | XR_951175 | **LOC105372734** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372738 | XR_937589 | **LOC105372738** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372740 | XR_001755096 | **LOC105372740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372741 | XR_001754976 | **LOC105372741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372745 | XR_937603 | **LOC105372745** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372746 | NR_146910 | **LINC01683** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372747 | XR_937606,XR_937 | **LOC105372747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372749 | XR_937611 | **LOC105372749** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372750 | XR_937612,XR_937 | **LOC105372750** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372751 | NR_135519,NR_135 | **LINC01684** | long intergenic non-prote | lncRNA | 13 | 11 | 14 | 12 | 0.839 |
| 105372753 | XR_001754983,XR_ | **LOC105372753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372756 | XR_937619,XR_937 | **LOC105372756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372757 | XR_937622 | **LOC105372757** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372758 | XR_937624,XR_937 | **LOC105372758** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372759 | XR_001755130 | **LOC105372759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372760 | XR_937632 | **LOC105372760** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372762 | XR_001754990,XR_ | **LOC105372762** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372763 | XR_001754992,XR_ | **LINC01673** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372764 | XR_937643 | **LOC105372764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372766 | XR_937645 | **LOC105372766** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.685 |
| 105372767 | XR_937646 | **LOC105372767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 105372768 | XR_001754996,XR_ | **LOC105372768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.018 |
| 105372770 | XR_001755000 | **LOC105372770** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372772 | XR_937653,XR_937 | **LOC105372772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372773 | XR_937655,XR_937 | **LOC105372773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372774 | XR_937657 | **LOC105372774** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372775 | XR_937658,XR_937 | **LOC105372775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372776 | XR_001755001 | **LOC105372776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372777 | XR_937661 | **LOC105372777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372779 | XR_937664 | **MRAP-AS1** | MRAP antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.084 |
| 105372782 | XR_001755006,XR_ | **LOC105372782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372785 | XR_937672,XR_937 | **LOC105372785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372787 | XR_937675,XR_937 | **LOC105372787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372789 | XR_937678,XR_937 | **LOC105372789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372790 | XR_937680,XR_937 | **LOC105372790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372791 | XR_001755012,XR_ | **LOC105372791** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.661 |
| 105372793 | XR_001755014,XR_ | **LOC105372793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105372795 | NR_131189 | **LOC105372795** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.470 |
| 105372797 | XR_001755034,XR_ | **LOC105372797** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372798 | XM_017028523,XR_ | **LOC105372798** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372799 | XR_937707 | **KCNJ6-AS1** | KCNJ6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372801 | XR_937708 | **LOC105372801** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372802 | XR_001755041,XR_ | **LOC105372802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372803 | XR_937713 | **LOC105372803** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372804 | XR_937717 | **LOC105372804** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372808 | NR_164474 | **PCSEAT** | prostate cancer expresse | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372809 | XR_937737,XR_937 | **LOC105372809** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372812 | XR_937741 | **LOC105372812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372813 | XR_937742,XR_937 | **LOC105372813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372814 | XR_937748 | **LOC105372814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372815 | XR_001755064,XR_ | **LOC105372815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372816 | XR_001755070 | **LOC105372816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372817 | XR_937764,XR_937 | **LOC105372817** | uncharacterized LOC105 | lncRNA | 3 | 5 | 4 | 6 | 1.713 |
| 105372821 | XR_001755074,XR_ | **LOC105372821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 105372824 | XM_011529811 | **LOC105372824** | uncharacterized LOC105 | protein_coding | 1 | 0 | 2 | 1 | 0.893 |
| 105372825 | XR_937776 | **LOC105372825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372826 | XR_001755079 | **LOC105372826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372829 | XR_937781 | **LOC105372829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372831 | XR_001754930,XR_ | **CH507-9B2.8** | uncharacterized CH507-9 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372832 | XR_002958636,XR_ | **LOC105372832** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372833 | NR_135514 | **DNMT3L-AS1** | DNMT3L antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372835 | XR_001755085 | **LOC105372835** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372836 | XM_011529812,XR_ | **LOC105372836** | uncharacterized LOC105 | protein_coding | 1 | 1 | 2 | 2 | 0.766 |
| 105372838 | XR_937799 | **LOC105372838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372839 | XR_937800 | **LOC105372839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372840 | NR_146912 | **LINC01694** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105372841 | XR_001755091,XR_ | **LOC105372841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372842 | XR_001755086,XR_ | **LOC105372842** | proline-rich protein 36-lik | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372850 | XR_001755420 | **LOC105372850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372853 | XR_001755422,XR_ | **LOC105372853** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372857 | XR_922473 | **LOC105372857** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372858 | XR_001755425 | **LOC105372858** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372859 | XR_938000,XR_938 | **LOC105372859** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372860 | XR_938003 | **LOC105372860** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.857 |
| 105372861 | XR_938005 | **LOC105372861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372862 | XR_938009 | **LOC105372862** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 105372863 | XR_001755430 | **LOC105372863** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372864 | XR_938011 | **LOC105372864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372869 | XR_922474,XR_922 | **LOC105372869** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372871 | XR_951258 | **LOC105372871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372873 | XR_922477 | **LOC105372873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372876 | XR_922480 | **DYRK3-AS1** | DYRK3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372877 | XR_922481 | **LOC105372877** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.188 |
| 105372878 | XR_922482 | **LOC105372878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372879 | XR_922483 | **LOC105372879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.877 |
| 105372880 | XR_922484 | **LOC105372880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372883 | NR_167982,NR_167 | **LINC02767** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 105372884 | XR_001738428 | **LOC105372884** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372887 | XR_001738426,XR_ | **LOC105372887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372888 | XR_001738429 | **LOC105372888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372889 | XR_922508,XR_922 | **LOC105372889** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372891 | XR_001738431 | **LINC02769** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372892 | XR_001738432,XR_ | **LOC105372892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372893 | NR_146914 | **LINC01717** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372894 | NR_146915 | **LINC01774** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372895 | XR_001738440 | **LOC105372895** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372896 | XR_922529,XR_922 | **LOC105372896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372897 | NR_135085 | **LINC01696** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372898 | XR_922535 | **LOC105372898** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372899 | XR_922537 | **LOC105372899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372901 | XR_001738445,XR_ | **LOC105372901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372902 | XR_922552 | **LOC105372902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 105372903 | XR_001738450,XR_ | **LOC105372903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372904 | XR_922555 | **LOC105372904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372906 | XR_922576,XR_922 | **LOC105372906** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.324 |
| 105372907 | XR_001738461,XR_ | **LINC02771** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372908 | XR_922579 | **LOC105372908** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372911 | XR_922584 | **LINC02775** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372912 | XR_001738463,XR_ | **LOC105372912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372915 | XR_922592 | **LOC105372915** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372916 | XR_001737820 | **LOC105372916** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372918 | XR_922595,XR_922 | **USH2A-AS1** | USH2A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372919 | XR_922599 | **LOC105372919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372920 | XR_922600 | **LOC105372920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105372922 | XR_001738466 | **LOC105372922** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372923 | XR_001738467,XR_ | **LOC105372923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372924 | XR_922605 | **LOC105372924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372925 | NR_146917 | **LINC01710** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372926 | XR_001738472,XR_ | **LOC105372926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372928 | XR_001737822,XR_ | **LOC105372928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372929 | XR_922616 | **LINC02779** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372930 | XR_922619 | **LOC105372930** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372932 | XR_922621 | **LOC105372932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372934 | XR_922622 | **LOC105372934** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372935 | XR_938017 | **FAM247A** | family with sequence sim | lncRNA | 3 | 2 | 4 | 3 | 0.928 |
| 105372937 | XR_922623,XR_922 | **LOC105372937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372942 | XR_951230 | **FAM247D** | family with sequence sim | lncRNA | 3 | 2 | 4 | 3 | 0.748 |
| 105372945 | XR_922625 | **LOC105372945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372947 | XR_001755443,XR_ | **LOC105372947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372948 | XR_001755437,XR_ | **LOC105372948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372949 | XR_001755442 | **LL22NC03-102D1.18** | uncharacterized LL22NC | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372950 | NR_149057 | **LINC02257** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372952 | XR_938055,XR_938 | **LOC105372952** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.621 |
| 105372955 | XR_938072,XR_938 | **LINC02557** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372956 | XR_002958463,XR_ | **LOC105372956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 105372957 | XR_938075,XR_938 | **LOC105372957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372959 | XR_001755457 | **LOC105372959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372960 | XR_938082 | **LOC105372960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372962 | XR_938084 | **LOC105372962** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372963 | XR_938086 | **MYO18B-AS1** | MYO18B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372964 | XR_001755463 | **LOC105372964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372969 | XR_001755464,XR_ | **LOC105372969** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372971 | XR_938101,XR_938 | **LOC105372971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372972 | XR_938103,XR_938 | **LINC02559** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372974 | XR_001755468,XR_ | **SEZ6L-AS1** | SEZ6L antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372976 | XR_938114 | **LOC105372976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 105372977 | NM_001318392,XM_ | **LOC105372977** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372978 | NM_001350812 | **LINC01638** | long intergenic non-prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105372979 | XR_938121 | **LOC105372979** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372980 | XR_938123 | **LOC105372980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372981 | XR_938124 | **LOC105372981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372984 | XR_001738487,XR_ | **LOC105372984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372985 | XR_001755481 | **LOC105372985** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372988 | XR_938153 | **LOC105372988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372989 | XR_001755486,XR_ | **LOC105372989** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.913 |
| 105372990 | NR_148046 | **LOC105372990** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 105372991 | XR_001755491 | **LOC105372991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372994 | XR_001755492 | **LOC105372994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372995 | XR_938162,XR_938 | **LOC105372995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372997 | XR_001755493,XR_ | **LOC105372997** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105372998 | XR_001755494 | **LOC105372998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.004 |
| 105372999 | NR_149128 | **LINC02558** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373000 | XR_938171,XR_938 | **LOC105373000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373002 | XR_938176 | **LOC105373002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373003 | XR_938177 | **LOC105373003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373004 | XR_001755501,XR_ | **SYN3-AS1** | SYN3 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373006 | NR_134617 | **LINC01640** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373007 | XR_938183 | **LOC105373007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373009 | XR_938187 | **LL22NC03-13G6.2** | uncharacterized LL22NC | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373010 | XR_002958748,XR_ | **LINC01643** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373012 | XR_938200,XR_938 | **LOC105373012** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373013 | XR_001755610 | **LOC105373013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373014 | XR_938204 | **LOC105373014** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373015 | XR_938205 | **LOC105373015** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373016 | XR_001755508,XR_ | **LOC105373016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373017 | XR_938209,XR_938 | **LOC105373017** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.888 |
| 105373018 | XR_938224 | **LOC105373018** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.197 |
| 105373019 | XR_938225 | **LOC105373019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373020 | XR_938226 | **LOC105373020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.246 |
| 105373021 | NR_134623 | **LOC105373021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373022 | XR_938229 | **LOC105373022** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373023 | XR_938230 | **LOC105373023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373024 | XR_938231,XR_938 | **LOC105373024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373025 | XR_922645 | **LOC105373025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373027 | XR_001755536,XR_ | **LOC105373027** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.918 |
| 105373029 | XR_001755539,XR_ | **LOC105373029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373030 | XR_938253,XR_938 | **LOC105373030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373031 | NR_134627 | **LOC105373031** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.835 |
| 105373032 | XR_001755541,XR_ | **LOC105373032** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.046 |
| 105373033 | XR_001755542,XR_ | **LOC105373033** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373034 | XR_922648 | **LOC105373034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373035 | XR_938263,XR_938 | **LOC105373035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373037 | XR_001755549,XR_ | **LOC105373037** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373038 | XR_001755554 | **LOC105373038** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373041 | XR_949167 | **LOC105373041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.828 |
| 105373042 | XR_938271,XR_938 | **LOC105373042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373043 | XR_938274 | **LOC105373043** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 105373044 | NR_134631 | **LOC105373044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373046 | XR_949168,XR_949 | **LOC105373046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373047 | XR_001755569 | **LOC105373047** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.530 |
| 105373051 | NR_134632 | **SCUBE1-AS2** | SCUBE1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373053 | XR_001755577,XR_ | **LOC105373053** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373054 | NR_146918 | **LINC01639** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373056 | XR_001737825 | **LOC105373056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 105373057 | XM_011530653 | **LOC105373057** | DNA-directed RNA polym | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373058 | XR_001755578,XR_ | **LOC105373058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373059 | XR_938300 | **LOC105373059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373060 | XR_938301 | **LOC105373060** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373061 | XR_001737824,XR_ | **LOC105373061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373062 | XR_001755586,XR_ | **LOC105373062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373063 | XR_001755587 | **LOC105373063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373064 | NR_146602 | **LOC105373064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.095 |
| 105373066 | XR_001755615,XR_ | **LOC105373066** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373067 | XR_938308 | **LOC105373067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.897 |
| 105373068 | XR_938309 | **LOC105373068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.887 |
| 105373069 | XR_001755589,XR_ | **LOC105373069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373071 | XR_001755591,XR_ | **LOC105373071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.157 |
| 105373074 | XR_938315 | **LOC105373074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373075 | XR_938316 | **LOC105373075** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373077 | XR_001755593 | **LOC105373077** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.901 |
| 105373080 | XR_938323,XR_938 | **LOC105373080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373081 | XR_938325 | **LOC105373081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373083 | XR_938330 | **LOC105373083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373085 | XR_001755597,XR_ | **LOC105373085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373086 | XR_938333 | **LOC105373086** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373087 | XR_938334,XR_938 | **LOC105373087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373089 | XR_938337 | **LOC105373089** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373091 | XM_011530661 | **LOC105373091** | atherin-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373095 | XR_938352 | **LOC105373095** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.871 |
| 105373096 | XR_938353,XR_938 | **LOC105373096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373098 | XR_938356,XR_938 | **KLHDC7B-DT** | KLHDC7B divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.212 |
| 105373100 | NR_134637 | **LOC105373100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373102 | XM_011546186,XM_ | **LOC105373102** | uncharacterized LOC105 | protein_coding | 0 | 1 | 1 | 2 | 1.347 |
| 105373105 | XR_001755765,XR_ | **LOC105373105** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.217 |
| 105373106 | XR_001738492,XR_ | **CNIH3-AS1** | CNIH3 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373108 | XR_001737826,XR_ | **LOC105373108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373109 | XR_949207 | **LOC105373109** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373110 | XR_001738496,XR_ | **LINC02765** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.910 |
| 105373113 | NR_146920 | **LINC01703** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373115 | XR_949220,XR_949 | **LOC105373115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105373116 | XR_949222 | **LOC105373116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373117 | XR_001738505 | **LOC105373117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373119 | XR_949226 | **LOC105373119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373122 | XR_001738507,XR_ | **LOC105373122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373124 | XR_949233 | **LOC105373124** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373125 | XR_950505,XR_950 | **LOC105373125** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373126 | XR_950507 | **LOC105373126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373131 | XR_950513 | **LOC105373131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373133 | XM_011545614 | **LOC105373133** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373134 | XR_001755798 | **LOC105373134** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373137 | XR_002958820 | **LOC105373137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373138 | XR_001755802 | **LOC105373138** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 105373142 | XR_001755804 | **LOC105373142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373143 | XR_949234 | **LOC105373143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373144 | NR_133641 | **LINC01456** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373146 | XR_001755811,XR_ | **LOC105373146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373148 | XR_001755813,XR_ | **LOC105373148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105373150 | XR_950537,XR_950 | **LOC105373150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 105373151 | XR_950539 | **LOC105373151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373152 | XR_950540 | **LOC105373152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373153 | XR_950542 | **LOC105373153** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373154 | XM_017030005 | **LOC105373154** | myosin heavy chain IB-lil | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373155 | XR_950545,XR_950 | **LOC105373155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373156 | NR_136577 | **LOC105373156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373158 | XR_002958475 | **LINC02815** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373159 | NR_149312,NR_149 | **LOC105373159** | uncharacterized LOC105 | lncRNA | 9 | 8 | 10 | 9 | 0.890 |
| 105373161 | XR_949247 | **LOC105373161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373162 | XR_001737830 | **LOC105373162** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373163 | XR_949257 | **LOC105373163** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373164 | XR_949259 | **LOC105373164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373165 | XR_949260 | **LOC105373165** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373167 | XR_001738519,XR_ | **LOC105373167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373170 | XR_001738521,XR_ | **LOC105373170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373171 | XR_949271 | **LOC105373171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373172 | XR_001738522,XR_ | **LOC105373172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373174 | XR_949021 | **LOC105373174** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.919 |
| 105373175 | XR_001755824 | **LOC105373175** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373176 | XR_949023 | **LOC105373176** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373177 | XR_001755829,XR_ | **LOC105373177** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373178 | XR_949026 | **LOC105373178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373180 | XR_949028,XR_949 | **LOC105373180** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.082 |
| 105373181 | XR_949030 | **LOC105373181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373182 | XR_001755830,XR_ | **LOC105373182** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373184 | XR_001755832,XR_ | **LOC105373184** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373185 | NR_135616 | **LINC02601** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373186 | XR_002958821 | **LOC105373186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373188 | XR_001755838,XR_ | **LOC105373188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373190 | XR_001755841,XR_ | **LOC105373190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373191 | XR_002958824,XR_ | **LOC105373191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373193 | XR_949045,XR_949 | **LOC105373193** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.308 |
| 105373194 | XR_949047 | **LOC105373194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.040 |
| 105373195 | XR_001755844,XR_ | **LOC105373195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 105373196 | XR_949273 | **LOC105373196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373198 | XR_949274 | **LOC105373198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373199 | NR_146922 | **LINC01745** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373201 | XR_949282 | **LOC105373201** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373202 | XR_001755849,XR_ | **LOC105373202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373204 | XR_001755853 | **LOC105373204** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373205 | XR_938381 | **LOC105373205** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373206 | XR_949283 | **LOC105373206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373207 | XR_949286 | **LOC105373207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373208 | XR_949287 | **LOC105373208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373209 | XR_949288,XR_949 | **LOC105373209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373210 | XR_949292 | **LOC105373210** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373211 | XR_949294 | **LOC105373211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373212 | XR_949297 | **LINC02768** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.918 |
| 105373215 | XR_001738537,XR_ | **LOC105373215** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373218 | XR_001738550,XR_ | **LOC105373218** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.836 |
| 105373220 | XR_949308,XR_949 | **LOC105373220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373222 | XR_949312 | **LOC105373222** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373223 | XR_949313,XR_949 | **LOC105373223** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373224 | XR_001738559,XR_ | **LOC105373224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373225 | XR_001738554,XR_ | **LOC105373225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373228 | XR_949320 | **LOC105373228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373230 | XR_001738561 | **LOC105373230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373231 | XR_949325 | **LOC105373231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373233 | XR_949327 | **LOC105373233** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373234 | XR_949328,XR_949 | **LOC105373234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373235 | XR_949330 | **LOC105373235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373239 | XR_001755871,XR_ | **LOC105373239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 105373240 | XR_001755984,XR_ | **LOC105373240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373241 | XR_938423 | **LOC105373241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373242 | XM_011531078,XM_ | **LOC105373242** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373244 | XM_011531081,XM_ | **LOC105373244** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373247 | XR_938432,XR_938 | **LOC105373247** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.330 |
| 105373249 | gene-LOC10537324 | **LOC105373249** | . | pseudogene | 2 | 2 | 3 | 3 | 0.880 |
| 105373250 | XR_938441,XR_938 | **LOC105373250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373251 | NM_001348202,NM_ | **FAM236D** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373252 | XR_938445 | **LOC105373252** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373254 | XR_938449 | **LOC105373254** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.984 |
| 105373255 | XR_949335 | **LOC105373255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373258 | XR_949337 | **LOC105373258** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373260 | XR_949339,XR_949 | **LOC105373260** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373261 | XR_949342 | **LOC105373261** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373262 | XR_001738563,XR_ | **LOC105373262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.906 |
| 105373264 | XR_949348 | **LOC105373264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 105373265 | XR_001737764 | **LOC105373265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373266 | XR_949351 | **LOC105373266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373269 | XR_001737768,XR_ | **LOC105373269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373270 | XR_001737770,XR_ | **LOC105373270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 105373271 | XR_001738569 | **LOC105373271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373273 | XR_949366 | **LOC105373273** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373275 | XR_949368,XR_949 | **LOC105373275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373277 | XR_001738575,XR_ | **LOC105373277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373279 | XR_949372 | **LOC105373279** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373281 | XR_949164,XR_949 | **LOC105373281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373282 | XR_001755904,XR_ | **LOC105373282** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.257 |
| 105373283 | XR_938452 | **LOC105373283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 105373284 | XR_001755906 | **LOC105373284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373285 | XR_001755907,XR_ | **LOC105373285** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373286 | XR_938455 | **LOC105373286** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373287 | XR_938456 | **LOC105373287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373288 | XR_938457 | **LOC105373288** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373289 | NR_168380,NR_168 | **LOC105373289** | LOC105373289 | lncRNA | 0 | 0 | 1 | 1 | 1.120 |
| 105373292 | XR_938463,XR_938 | **LOC105373292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373293 | XR_938465 | **LOC105373293** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373294 | XR_938466 | **LOC105373294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373296 | XR_938468 | **LOC105373296** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373297 | XM_011531085 | **ERVFC1** | endogenous retrovirus g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373298 | XR_938469,XR_938 | **LOC105373298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373299 | XR_938471,XR_938 | **LOC105373299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373300 | NR_131236,NR_131 | **LINC02589** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373302 | XR_938487,XR_938 | **LOC105373302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373303 | XR_001755938,XR_ | **LOC105373303** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373304 | XR_938495 | **LOC105373304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373305 | XR_938496,XR_938 | **LOC105373305** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105373306 | XR_938499 | **LOC105373306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373310 | XR_002958815 | **LOC105373310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373311 | NR_158569 | **LOC105373311** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.156 |
| 105373312 | XR_938503,XR_938 | **LOC105373312** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.869 |
| 105373313 | XR_001755943 | **LOC105373313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373314 | XM_011537536,XR | **LOC105373314** | UDP-GlcNAc:betaGal be | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373320 | XR_938556 | **LOC105373320** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373323 | XR_938559,XR_938 | **LOC105373323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373324 | XR_001739241,XR_ | **LOC105373324** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373328 | XR_938572,XR_938 | **LOC105373328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373331 | XR_938576 | **LOC105373331** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.326 |
| 105373332 | XR_938577 | **LOC105373332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373333 | XR_938578 | **LOC105373333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373334 | XR_938580 | **LOC105373334** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373335 | XR_001755962,XR_ | **LOC105373335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373336 | XR_938584 | **LOC105373336** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373338 | NR_135655 | **LOC105373338** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373342 | XR_938597 | **LOC105373342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373343 | XR_938603 | **LOC105373343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373344 | XR_938604 | **LOC105373344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373345 | XR_938605 | **LOC105373345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373346 | XR_001739243,XR_ | **LOC105373346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373347 | XM_011531217,XM | **LOC105373347** | periphilin-1-like, transcrip | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373348 | XR_938515 | **LOC105373348** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373349 | XR_001755971,XR_ | **LOC105373349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373350 | NR_146953 | **LINC01865** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 105373351 | XR_922703 | **LOC105373351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373352 | NR_136168,NR_136 | **LOC105373352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373354 | XR_001739245,XR_ | **TMEM18-DT** | TMEM18 divergent trans | lncRNA | 0 | 0 | 1 | 1 | 0.888 |
| 105373358 | XR_001739247 | **LOC105373358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373359 | XR_922713,XR_922 | **LOC105373359** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373366 | XR_938518,XR_938 | **IDS2** | uncharacterized IDS2, tra | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 105373367 | XR_938521 | **LOC105373367** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373368 | NR_136578 | **MAGEA4-AS1** | MAGEA4 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373369 | XR_001755974,XR_ | **LOC105373369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373370 | XR_001755975,XR_ | **LOC105373370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373372 | XR_001755977,XR_ | **LOC105373372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373373 | XR_938533,XR_938 | **LOC105373373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373377 | NM_001354980 | **PNMA6F** | PNMA family member 6F | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373378 | NR_135656 | **LOC105373378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.174 |
| 105373379 | XR_938538 | **LOC105373379** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373381 | XM_017030018,XM | **LOC105373381** | extracellular matrix prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373383 | NR_131982 | **LOC105373383** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.062 |
| 105373384 | gene-LOC10537338 | **LOC105373384** | . | pseudogene | 0 | 0 | 1 | 1 | 0.893 |
| 105373386 | XR_001755978,XR_ | **LOC105373386** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105373387 | XR_938543 | **LOC105373387** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373389 | XR_922726 | **LOC105373389** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373390 | XR_001739254,XR_ | **LOC105373390** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373392 | XM_017005440 | **LOC105373392** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373393 | XR_922732 | **LOC105373393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373394 | NR_136322 | **LOC105373394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373395 | XM_011510452,XM_ | **LOC105373395** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373397 | XR_001739259 | **LOC105373397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373398 | XR_001739179 | **LOC105373398** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373399 | XR_922739,XR_922 | **LOC105373399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373400 | NR_146954 | **LINC01810** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373401 | XR_001739180 | **LOC105373401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373402 | XR_922743 | **LOC105373402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373404 | XR_922745 | **LOC105373404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.776 |
| 105373406 | XR_001739270,XR_ | **LOC105373406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373407 | XR_922748 | **LOC105373407** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373408 | XR_922750 | **LOC105373408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373409 | XR_001739182,XR_ | **LOC105373409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373411 | XR_001739274,XR_ | **LOC105373411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373414 | XR_001739276,XR_ | **LOC105373414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373415 | XR_922770 | **LOC105373415** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373416 | XR_922771,XR_922 | **LOC105373416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373417 | XR_922775,XR_922 | **LOC105373417** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373418 | XR_922778 | **LOC105373418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373419 | XR_922779 | **LOC105373419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373421 | XR_922782,XR_922 | **LOC105373421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373422 | XR_922784 | **LOC105373422** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373424 | XR_922789 | **LOC105373424** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373426 | XR_001739283,XR_ | **LOC105373426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.834 |
| 105373428 | XR_922797 | **LOC105373428** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.910 |
| 105373429 | XR_001739285,XR_ | **LOC105373429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373430 | XR_001739287,XR_ | **LOC105373430** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373431 | XR_922805 | **LOC105373431** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373432 | XR_922806,XR_922 | **LOC105373432** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373433 | XR_922808 | **LOC105373433** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373436 | XR_001739291,XR_ | **LOC105373436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373437 | XR_922813 | **LOC105373437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373438 | XR_001739295,XR_ | **LOC105373438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373440 | XR_001739297 | **LOC105373440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373443 | XR_001739183,XR_ | **LOC105373443** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373444 | XR_939753 | **LOC105373444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373447 | XR_939757,XR_939 | **LOC105373447** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373448 | XR_939759 | **LOC105373448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373449 | XR_939760,XR_939 | **LOC105373449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373451 | XR_001739301,XR_ | **LOC105373451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373454 | XR_001739302 | **LOC105373454** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373455 | XR_002959372,XR_ | **LOC105373455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373456 | XR_001739303,XR_ | **LOC105373456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.172 |
| 105373458 | XR_939778 | **LOC105373458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373459 | XR_001739315,XR_ | **LOC105373459** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373460 | XR_939781,XR_939 | **LINC01808** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373461 | XR_939785 | **LOC105373461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373463 | XR_001739316,XR_ | **LAPTM4A-DT** | LAPTM4A divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373465 | XR_001739317 | **LOC105373465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.069 |
| 105373466 | XR_001739320 | **LOC105373466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373467 | XR_922012 | **LOC105373467** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.145 |
| 105373475 | XR_922613 | **LOC105373475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373479 | XR_001739248,XR_ | **LOC105373479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373480 | XR_922709,XR_922 | **LOC105373480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373481 | XR_922712 | **LOC105373481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373484 | XR_001739294 | **LOC105373484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373485 | XR_922814 | **LOC105373485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373487 | XR_923074,XR_923 | **LOC105373487** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373488 | XR_923076 | **LOC105373488** | uncharacterized LOC105 | lncRNA | 3 | 4 | 4 | 5 | 1.293 |
| 105373490 | XR_923077 | **LOC105373490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373492 | XR_923082 | **LOC105373492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373493 | XR_923083 | **LOC105373493** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373494 | XR_923084,XR_923 | **LOC105373494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373496 | NR_135564 | **LOC105373496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373499 | XR_001739197,XR_ | **LOC105373499** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373501 | XR_923092 | **LOC105373501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373504 | XR_001739607,XR_ | **LOC105373504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373506 | XR_923097,XR_923 | **LOC105373506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373507 | NR_146956 | **LINC01849** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373508 | XR_923105 | **LOC105373508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373509 | gene-BBIP1P1 | **BBIP1P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105373510 | XR_923107 | **LOC105373510** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105373511 | XR_001739613,XR_ | **LOC105373511** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.062 |
| 105373512 | XR_923109 | **LOC105373512** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.941 |
| 105373514 | XR_923111,XR_923 | **LOC105373514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373518 | NR_135562 | **LINC01796** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105373519 | NR_135530 | **LINC01935** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373520 | XR_001739200,XR_ | **LOC105373520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373521 | XR_923125 | **LOC105373521** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373522 | XR_923126 | **LOC105373522** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373523 | XR_923127,XR_923 | **LOC105373523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373524 | XR_923129 | **LOC105373524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373525 | XR_923130 | **LOC105373525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373526 | XR_002959411,XR_ | **LOC105373526** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373527 | XR_923137,XR_923 | **LOC105373527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373528 | XR_001739624 | **LOC105373528** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373529 | XR_923141 | **LOC105373529** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373530 | XR_001739627,XR_ | **LOC105373530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373531 | XR_923144,XR_923 | **LOC105373531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373534 | XR_923149 | **LOC105373534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373535 | XR_923153 | **LOC105373535** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373536 | XR_001739630,XR_ | **LINC01789** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373537 | NR_146968 | **LINC01886** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373538 | XR_001739632,XR_ | **LINC01885** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373539 | XR_001739634 | **LOC105373539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373545 | XR_001739112,XR_ | **LOC105373545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373547 | XR_001739115,XR_ | **LOC105373547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373548 | XR_923180,XR_923 | **LOC105373548** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373549 | XR_923182 | **LOC105373549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373551 | XR_001739121 | **LOC105373551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373552 | XR_001739119,XR_ | **LOC105373552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373553 | NR_135529 | **LOC105373553** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373554 | XR_923189 | **LOC105373554** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.349 |
| 105373557 | XR_001739635 | **SOCAR** | serous ovarian cancer as | lncRNA | 0 | 1 | 1 | 2 | 1.030 |
| 105373559 | XR_923199 | **LOC105373559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373560 | XR_923200 | **LOC105373560** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373562 | NR_136321 | **LOC105373562** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.082 |
| 105373563 | XR_001739645 | **LOC105373563** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373567 | XR_923223 | **LOC105373567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373570 | XR_923227 | **LOC105373570** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 105373572 | XR_923234 | **LOC105373572** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373574 | XR_923236 | **LOC105373574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373575 | XR_001739658,XR_ | **LOC105373575** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373576 | XR_923239,XR_923 | **LOC105373576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373578 | XR_001739664,XR_ | **LOC105373578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373579 | XR_923251 | **LOC105373579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373581 | XR_001739666 | **LOC105373581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105373582 | XR_001739678,XR_ | **LOC105373582** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.965 |
| 105373583 | XR_923259 | **LOC105373583** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373584 | XR_923260,XR_923 | **LOC105373584** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373585 | XR_001739680,XR_ | **LOC105373585** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373587 | XR_923264,XR_923 | **LOC105373587** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373588 | XR_923269 | **LOC105373588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373590 | XR_923272 | **LOC105373590** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373591 | XR_001739686,XR_ | **LOC105373591** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373592 | XR_001739684,XR_ | **LOC105373592** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373593 | XR_923286,XR_923 | **LOC105373593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373594 | XR_001739691,XR_ | **LOC105373594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373595 | XR_001739692,XR_ | **LOC105373595** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 105373596 | XR_923293 | **LOC105373596** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373597 | XR_923294,XR_923 | **LINC01889** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373598 | XR_923296,XR_923 | **LOC105373598** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373600 | NR_146970 | **LINC01941** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373601 | XR_923302,XR_923 | **LOC105373601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373602 | XR_001739693,XR_ | **LOC105373602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373603 | XR_001739213 | **LOC105373603** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373604 | XR_001739695,XR_ | **LOC105373604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373605 | XR_923310,XR_923 | **LOC105373605** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373608 | XR_001739705,XR_ | **LOC105373608** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.926 |
| 105373609 | NR_132317 | **LOC105373609** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373610 | XR_923317 | **LOC105373610** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373611 | XR_001739708,XR_ | **LOC105373611** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373612 | XR_001739709 | **LOC105373612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373613 | XR_001739710 | **LOC105373613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373614 | XR_923323 | **LOC105373614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373615 | NR_149127 | **LINC02572** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373616 | XR_923328 | **LOC105373616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 105373617 | XR_923329 | **POTEF-AS1** | POTEF antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373618 | XR_923330 | **LOC105373618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373622 | XR_923341,XR_923 | **LOC105373622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373623 | XR_001739126,XR_ | **LOC105373623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373627 | XR_001739714 | **LOC105373627** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373628 | XR_001739715,XR_ | **LOC105373628** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373629 | XR_923354 | **LOC105373629** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.563 |
| 105373633 | XR_923360 | **LOC105373633** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373634 | XR_001739717,XR_ | **LOC105373634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373635 | NR_135526 | **LINC01832** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373636 | XR_923366,XR_923 | **LOC105373636** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373637 | XR_923368 | **LOC105373637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.839 |
| 105373639 | XR_923370 | **LOC105373639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373640 | XR_923371 | **LOC105373640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373641 | XR_923372 | **LOC105373641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373643 | XR_001739720,XR_ | **LOC105373643** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373644 | XR_923377 | **LOC105373644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373645 | XR_923378 | **LOC105373645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373647 | XR_923380,XR_923 | **LINC01853** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373648 | XR_001739131,XR_ | **LOC105373648** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373649 | XR_001739134 | **LOC105373649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373651 | XR_923388 | **LOC105373651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373652 | XR_923389 | **LOC105373652** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373654 | XR_002959423,XR_ | **ARHGAP15-AS1** | ARHGAP15 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373656 | NR_136320 | **LOC105373656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373662 | XR_923412 | **LINC01966** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373663 | XR_923413 | **LOC105373663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373664 | XR_923414,XR_923 | **LOC105373664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373665 | XR_923417,XR_923 | **LOC105373665** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373666 | XR_923420 | **LOC105373666** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373667 | XR_923421,XR_923 | **LOC105373667** | uncharacterized LOC105 | lncRNA | 3 | 4 | 4 | 5 | 1.066 |
| 105373668 | XR_923423,XR_923 | **LOC105373668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373669 | XR_001739725,XR_ | **LINC01911** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373673 | XR_001739136 | **LOC105373673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373674 | XR_001739135 | **LOC105373674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373677 | XR_001739735,XR_ | **LOC105373677** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373678 | XR_923460 | **LOC105373678** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373679 | XR_923461 | **LOC105373679** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373680 | XR_923464 | **LOC105373680** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373682 | XR_923467 | **LOC105373682** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373683 | NR_146972 | **LINC01817** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373684 | XR_923469 | **LINC01818** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373685 | XR_923470 | **LOC105373685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373686 | XR_002959484 | **LOC105373686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373688 | XR_923475 | **LOC105373688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373689 | XR_923476,XR_923 | **LOC105373689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373690 | XR_001739737,XR_ | **LOC105373690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373691 | XR_923479,XR_923 | **LOC105373691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373692 | XR_923483 | **LOC105373692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373693 | XR_001739741,XR_ | **LOC105373693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373694 | XR_923485,XR_923 | **LOC105373694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373696 | XR_001739742,XR_ | **LOC105373696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373698 | XR_923493,XR_923 | **LOC105373698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373699 | XR_923496 | **LOC105373699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373700 | XR_923497,XR_923 | **LOC105373700** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105373703 | XR_001739749,XR_ | **LOC105373703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373707 | XR_923505 | **LOC105373707** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.262 |
| 105373708 | XR_923506 | **LINC01958** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373709 | XR_001739754,XR_ | **LOC105373709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373710 | XR_923509,XR_923 | **LOC105373710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373711 | XR_923511 | **LOC105373711** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.791 |
| 105373712 | XR_923512,XR_923 | **LOC105373712** | uncharacterized LOC105 | lncRNA | 5 | 4 | 6 | 5 | 0.768 |
| 105373713 | XR_923516 | **LOC105373713** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373714 | XR_923517,XR_923 | **LOC105373714** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373715 | XR_001739137 | **LOC105373715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373716 | XR_002959431,XR_ | **LOC105373716** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373717 | XR_001739756 | **LOC105373717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373718 | XR_923526 | **LOC105373718** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373719 | XR_923527,XR_923 | **TANK-AS1** | TANK antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373720 | XR_923530 | **LOC105373720** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373722 | XR_001739757,XR_ | **LOC105373722** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.819 |
| 105373724 | XR_923544 | **LOC105373724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373727 | XR_923547 | **LOC105373727** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373728 | XR_923548 | **LOC105373728** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373730 | XR_001739760,XR_ | **LOC105373730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373733 | XR_001739223,XR_ | **LOC105373733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 105373734 | XR_001739766,XR_ | **LOC105373734** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.112 |
| 105373735 | XR_923570 | **LOC105373735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373737 | XR_001739772,XR_ | **LOC105373737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373739 | XR_923578 | **LOC105373739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373740 | XR_923579 | **LOC105373740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373741 | XR_923580 | **LOC105373741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373742 | XR_923581,XR_923 | **LOC105373742** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373743 | XR_923585 | **LOC105373743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373744 | XR_923586 | **LOC105373744** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373745 | XR_923588 | **LOC105373745** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373746 | XR_923589 | **LOC105373746** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373748 | XR_923592 | **LOC105373748** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.922 |
| 105373750 | XM_017005447 | **LOC105373750** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373752 | XR_923596 | **LOC105373752** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373754 | XR_923600 | **LOC105373754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373756 | XR_923602,XR_923 | **LOC105373756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373757 | XR_923605,XR_923 | **LOC105373757** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373759 | NR_157853 | **LOC105373759** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.899 |
| 105373760 | XR_001739795,XR_ | **LOC105373760** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373762 | XR_923624 | **LOC105373762** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373764 | NR_136171 | **PDE11A-AS1** | PDE11A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373766 | XR_001739139,XR_ | **LOC105373766** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373767 | XR_001739225,XR_ | **LOC105373767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373768 | XR_923635 | **LOC105373768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373769 | XR_923636 | **LOC105373769** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373770 | XR_923637 | **LOC105373770** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373771 | XR_923638 | **LOC105373771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373772 | XR_923639 | **LOC105373772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373774 | XR_923645 | **LOC105373774** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.970 |
| 105373775 | XR_923646 | **LOC105373775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373776 | XR_001739817,XR_ | **LOC105373776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373777 | XR_923653,XR_923 | **LOC105373777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373779 | XR_923656 | **LOC105373779** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373780 | XM_011512285 | **LOC105373780** | proline-rich protein 18-lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373781 | XR_923661,XR_923 | **LOC105373781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373782 | NR_136319 | **LOC105373782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373785 | XR_001739147,XR_ | **LOC105373785** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.058 |
| 105373786 | XR_001739821,XR_ | **LOC105373786** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373788 | XR_923683 | **LOC105373788** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373790 | XR_001739824,XR_ | **LOC105373790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373791 | XR_923689 | **LOC105373791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373793 | XR_001739153,XR_ | **LOC105373793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373794 | XR_001739152 | **LOC105373794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 105373795 | XR_923695 | **LOC105373795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373796 | XR_001739149,XR_ | **LOC105373796** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373802 | XR_001739160,XR_ | **LOC105373802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |
| 105373804 | XR_923707 | **LOC105373804** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373805 | NR_136318 | **LOC105373805** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373811 | XR_001739826 | **LOC105373811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373812 | XR_923718 | **LOC105373812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373813 | XR_001739827,XR_ | **CAVIN2-AS1** | CAVIN2 and TMEFF2 an | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373815 | XR_923730,XR_923 | **LOC105373815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373816 | XR_923732 | **LOC105373816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373817 | XR_923733 | **LOC105373817** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373818 | XR_923734,XR_923 | **LINC01827** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373819 | XR_923736 | **LOC105373819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373821 | XR_001739838,XR_ | **LOC105373821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373822 | XR_923746 | **LOC105373822** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373823 | XR_923747 | **LOC105373823** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.502 |
| 105373824 | XR_001739847,XR_ | **LOC105373824** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.891 |
| 105373826 | XR_923752 | **LOC105373826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 105373828 | XR_001739848,XR_ | **LOC105373828** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373830 | XR_923757 | **LOC105373830** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373831 | XR_923759,XR_923 | **LOC105373831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373833 | XR_923777 | **LOC105373833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373835 | XR_923783 | **LOC105373835** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.369 |
| 105373836 | XR_923785 | **LOC105373836** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.822 |
| 105373845 | XR_923798,XR_923 | **LOC105373845** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373847 | XR_923801,XR_923 | **LOC105373847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373848 | XR_923804 | **LOC105373848** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.305 |
| 105373851 | XR_923809 | **LOC105373851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373852 | NR_146973 | **LINC01802** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373853 | NR_146555 | **MYOSLID** | myocardin-induced smoc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373854 | XR_923815 | **LOC105373854** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373855 | XR_001739862 | **LOC105373855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373856 | XR_001739863,XR_ | **LOC105373856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373857 | XR_001739865 | **LOC105373857** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373863 | NR_146974 | **LINC01953** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 105373864 | XR_923851 | **LOC105373864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373868 | XR_923862 | **LOC105373868** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373869 | NR_132383 | **LINC01614** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373870 | XR_001739231 | **LOC105373870** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373871 | XR_923873 | **LOC105373871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373872 | XR_001739172,XR_ | **LOC105373872** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 105373873 | XR_923876,XR_923 | **LOC105373873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373874 | XR_923878 | **LOC105373874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373876 | NR_135525 | **LOC105373876** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373877 | NR_133642 | **DIRC3-AS1** | DIRC3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.799 |
| 105373878 | NR_135524 | **TNS1-AS1** | TNS1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373880 | XR_923909 | **LOC105373880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.144 |
| 105373881 | XR_001739883,XR_ | **LOC105373881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373882 | XR_923916 | **LOC105373882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373883 | XR_923917 | **LOC105373883** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.520 |
| 105373884 | XR_923918,XR_923 | **LOC105373884** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 105373885 | XR_923921 | **ASIC4-AS1** | ASIC4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373886 | XR_923922 | **LINC02832** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373887 | XR_923923 | **LOC105373887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373888 | XR_923924 | **LOC105373888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373889 | NR_146975 | **LINC01803** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373890 | XR_001739233,XR_ | **LOC105373890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373891 | XR_001739888,XR_ | **LOC105373891** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373893 | XR_001739889,XR_ | **LOC105373893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373894 | XR_923934,XR_923 | **LOC105373894** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373895 | XR_923937 | **LOC105373895** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373896 | XR_001739890,XR_ | **LOC105373896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105373897 | XR_923939 | **LOC105373897** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373898 | XR_923940 | **LOC105373898** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373899 | XR_001739234,XR_ | **LOC105373899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373900 | XR_923944 | **LOC105373900** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373902 | XR_923947 | **LOC105373902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373903 | XR_001739904,XR_ | **LOC105373903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373904 | XR_923949 | **ACSL3-AS1** | ACSL3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373905 | XR_923950 | **LOC105373905** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373906 | XR_923951 | **LOC105373906** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373907 | XR_923952 | **LOC105373907** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373908 | XR_001739173,XR_ | **LOC105373908** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373909 | XR_923955 | **LOC105373909** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373910 | XR_923956 | **LOC105373910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373911 | XR_923957 | **LOC105373911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373914 | XR_001739905,XR_ | **LOC105373914** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373915 | XR_923963 | **LOC105373915** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373918 | XR_001739908 | **LOC105373918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373919 | XR_001739915,XR_ | **LOC105373919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373920 | XR_001739914,XR_ | **LOC105373920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373921 | XR_001739913 | **LOC105373921** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373923 | XR_923980 | **LOC105373923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373924 | XR_923981 | **LOC105373924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373925 | XR_001739921,XR_ | **LOC105373925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.149 |
| 105373928 | XR_923987 | **LOC105373928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.919 |
| 105373929 | XR_923988 | **LOC105373929** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373932 | XR_001739236 | **LOC105373932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373933 | XR_001739930,XR_ | **LOC105373933** | uncharacterized LOC105 | lncRNA | 5 | 5 | 6 | 6 | 0.978 |
| 105373934 | NR_146988 | **LINC01891** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373936 | XR_923998 | **LOC105373936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373937 | XR_924000 | **LOC105373937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.932 |
| 105373938 | XR_001739936,XR_ | **LOC105373938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373939 | XR_924006,XR_924 | **LOC105373939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373940 | XR_924009 | **LOC105373940** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373941 | XR_924010 | **LOC105373941** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373942 | XR_001739941,XR_ | **LOC105373942** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373943 | XR_924014 | **LOC105373943** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373944 | XM_017005449 | **LOC105373944** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373945 | XR_001739947,XR_ | **LOC105373945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373946 | XR_924019 | **LOC105373946** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373947 | XR_924020,XR_924 | **LOC105373947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373948 | XR_001739952,XR_ | **LOC105373948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373949 | XR_924024,XR_924 | **LOC105373949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373950 | XR_924028,XR_924 | **LOC105373950** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373951 | XR_924031,XR_924 | **LOC105373951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373952 | XR_001739958 | **LOC105373952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 105373953 | XR_001739959,XR_ | **LOC105373953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373954 | XR_001739961,XR_ | **LOC105373954** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373957 | XR_001739962 | **LOC105373957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373958 | XR_001739964,XR_ | **LOC105373958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373960 | XR_001739967,XR_ | **LOC105373960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373961 | XR_001739968 | **LOC105373961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373962 | XR_924050 | **LINC01937** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373963 | XR_001739237 | **LOC105373963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373966 | XR_924055 | **LOC105373966** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373968 | XR_924057 | **LOC105373968** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373970 | XR_924062 | **SNED1-AS1** | SNED1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.035 |
| 105373971 | XR_924064 | **LOC105373971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373973 | XR_924066,XR_924 | **LOC105373973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373974 | XR_924069,XR_924 | **LOC105373974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373975 | XR_001739970,XR_ | **LOC105373975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 105373976 | XR_924075 | **LOC105373976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.978 |
| 105373977 | XR_924076 | **LOC105373977** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373978 | XR_924077 | **LOC105373978** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373979 | NR_146651 | **LINC01880** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373980 | XR_924086 | **LOC105373980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373984 | NR_136172 | **LINC01918** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373985 | XM_024453281,XR_ | **LOC105373985** | delta-like protein 3, trans | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373986 | XR_001739118 | **LOC105373986** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373989 | XM_017005445 | **LOC105373989** | putative cuticle collagen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105373991 | XR_002959367 | **LOC105373991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373992 | XR_924224,XR_924 | **LOC105373992** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373994 | XR_001740811,XR_ | **LOC105373994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373996 | XR_924253 | **LOC105373996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373997 | XR_924254 | **LOC105373997** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373998 | XR_924256 | **LOC105373998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105373999 | XR_001740814,XR_ | **LOC105373999** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374000 | XR_924261,XR_924 | **LOC105374000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374002 | XR_924264 | **LOC105374002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374003 | XR_924265 | **LOC105374003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374004 | XR_924266 | **LOC105374004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374005 | XR_001740466,XR_ | **LOC105374005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374006 | XR_924269 | **LOC105374006** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374007 | XR_001740461,XR_ | **LOC105374007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374009 | XR_001740455,XR_ | **LOC105374009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374010 | XR_001740453,XR_ | **LOC105374010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 105374013 | XM_011513341 | **LOC105374013** | endogenous retrovirus gi | protein_coding | 0 | 1 | 1 | 2 | 1.187 |
| 105374016 | XR_001740818,XR_ | **LOC105374016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374017 | XR_924293,XR_924 | **LOC105374017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374018 | XR_924296,XR_924 | **LOC105374018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374019 | XR_924299 | **LOC105374019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374020 | XR_924300,XR_924 | **LOC105374020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374021 | XR_924302 | **LOC105374021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105374023 | XR_924305,XR_924 | **LOC105374023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374024 | XR_001740835,XR_ | **LOC105374024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.007 |
| 105374026 | XR_924310 | **LOC105374026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374027 | XR_924311 | **LOC105374027** | uncharacterized LOC105 | lncRNA | 8 | 6 | 9 | 7 | 0.771 |
| 105374029 | XR_001740467,XR_ | **LOC105374029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374031 | XR_001740841,XR_ | **LOC105374031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374033 | XR_924321 | **LOC105374033** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374034 | XR_924322,XR_924 | **LOC105374034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374036 | XR_924326,XR_924 | **LOC105374036** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374037 | XR_924328 | **LOC105374037** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374038 | XR_924331 | **LOC105374038** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374039 | XR_001740846,XR_ | **LOC105374039** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.898 |
| 105374040 | XR_001740850,XR_ | **LOC105374040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374041 | XR_924334 | **LOC105374041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374042 | NR_147411 | **LOC105374042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374048 | XR_924347 | **LOC105374048** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374051 | XR_924352 | **LOC105374051** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374052 | XR_001740858 | **LOC105374052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374053 | XR_924357 | **LOC105374053** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374054 | XR_924358 | **LOC105374054** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374056 | XR_001740490,XR_ | **LOC105374056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374057 | NR_146652 | **LINC02024** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374058 | XR_924378 | **LOC105374058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374059 | XR_924380 | **LOC105374059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374060 | NR_135547 | **LOC105374060** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374062 | XR_001740862 | **LOC105374062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374063 | XR_924390 | **LOC105374063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374064 | XR_924391 | **LOC105374064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374065 | XR_924392 | **LOC105374065** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374069 | XR_924398,XR_924 | **LOC105374069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374071 | XR_001740869,XR_ | **LOC105374071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374076 | XR_001740872 | **LOC105374076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374077 | XR_924424 | **LOC105374077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374080 | XR_924427 | **LOC105374080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |

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|---|---|---|---|---|---|---|---|---|---|
| 105374081 | XR_924428 | **LOC105374081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374083 | XR_924438 | **LOC105374083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374085 | XR_924442 | **LOC105374085** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.344 |
| 105374088 | XR_924454 | **LOC105374088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374090 | XR_924455 | **LOC105374090** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374094 | XR_924459 | **LOC105374094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374096 | XR_001740899,XR_ | **LOC105374096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374101 | XR_924469 | **LOC105374101** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.846 |
| 105374102 | XR_924470,XR_924 | **LOC105374102** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.522 |
| 105374103 | XM_011513345 | **LOC105374103** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105374104 | NR_146653,NR_146 | **LINC02021** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374105 | NR_146710 | **LINC02014** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374106 | XR_924479 | **LOC105374106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374107 | XR_001740493,XR_ | **LOC105374107** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374108 | XR_924486 | **LOC105374108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374110 | XR_924488 | **LOC105374110** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.826 |
| 105374111 | XR_924489 | **LOC105374111** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374113 | XR_001740498,XR_ | **LOC105374113** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374114 | XR_924495 | **LOC105374114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.219 |
| 105374115 | XR_924500 | **LOC105374115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374116 | XR_924513 | **LOC105374116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374117 | XR_924515,XR_924 | **LOC105374117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374118 | XR_924518 | **LOC105374118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374119 | NR_146711 | **LINC02004** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374120 | XR_924522,XR_924 | **LOC105374120** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374121 | XR_001740924,XR_ | **LOC105374121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374122 | XR_001740926,XR_ | **LOC105374122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374123 | XR_924529 | **LOC105374123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374124 | XR_924530 | **LOC105374124** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374126 | XR_924532,XR_924 | **LOC105374126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374127 | XR_924534 | **LOC105374127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374128 | XR_001740930,XR_ | **LOC105374128** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374129 | XR_001740933 | **LOC105374129** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374132 | XR_924548,XR_924 | **LOC105374132** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105374134 | XR_924551 | **LOC105374134** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374136 | XR_001740938 | **LOC105374136** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374137 | XR_924554 | **LOC105374137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374138 | XR_001740939,XR_ | **LOC105374138** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374139 | XR_924557 | **LOC105374139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374140 | XR_001740941,XR_ | **LOC105374140** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.984 |
| 105374141 | XR_924559 | **LOC105374141** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374142 | XR_001740564,XR_ | **LOC105374142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374143 | XR_924561 | **LOC105374143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374144 | XR_001740944,XR_ | **LOC105374144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374145 | XR_001740949,XR_ | **LOC105374145** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374146 | XR_924564,XR_924 | **LINC02045** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374147 | XR_924566 | **LOC105374147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374148 | XR_001740955,XR_ | **LOC105374148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374149 | NR_146712 | **LINC02046** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374150 | XR_924571,XR_924 | **LOC105374150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374151 | XR_001740957,XR_ | **LOC105374151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374152 | XR_924575 | **LOC105374152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374153 | XR_924577 | **LOC105374153** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374154 | XR_924578 | **LOC105374154** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374155 | XR_001740967,XR_ | **LOC105374155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.864 |
| 105374157 | XR_924581 | **LOC105374157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374158 | XR_924582,XR_924 | **LINC02066** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374159 | XR_924584 | **LOC105374159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374160 | XR_924585,XR_924 | **LOC105374160** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374162 | XR_924588 | **LOC105374162** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 105374163 | XR_924589 | **LOC105374163** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374164 | XR_001740973,XR_ | **LOC105374164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374165 | NR_146713 | **LINC02006** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374166 | XR_001740975,XR_ | **LOC105374166** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 105374167 | XR_924597 | **LOC105374167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.913 |
| 105374170 | XR_924602 | **LOC105374170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374171 | XR_001740568,XR_ | **LOC105374171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374172 | XR_924604 | **LOC105374172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374174 | XR_924607,XR_924 | **LOC105374174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.774 |
| 105374177 | NR_135546 | **LINC02029** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374179 | XR_924615 | **LOC105374179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374181 | XR_924637,XR_924 | **LOC105374181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 105374186 | XR_001740989,XR_ | **LOC105374186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374187 | XR_001740993,XR_ | **LOC105374187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.811 |
| 105374188 | XR_924654,XR_924 | **LOC105374188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374189 | XR_924657 | **LOC105374189** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374190 | XR_924658 | **LOC105374190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374191 | XR_001740998,XR_ | **LOC105374191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374192 | XR_001741003,XR_ | **LOC105374192** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374193 | XR_924674,XR_924 | **LOC105374193** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374194 | NR_135545 | **LOC105374194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374195 | XR_924681 | **LOC105374195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374196 | XR_001741010,XR_ | **LOC105374196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374197 | XR_001741012,XR_ | **LOC105374197** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374200 | XR_001741014,XR_ | **LOC105374200** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374201 | XR_924689 | **LINC01997** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374205 | NR_134932 | **MECOM-AS1** | MECOM antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374206 | XR_001741018 | **LOC105374206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374209 | XR_001741019,XR_ | **LOC105374209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374211 | XR_924701 | **LOC105374211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374216 | XR_001740523,XR_ | **LOC105374216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374217 | XR_924718 | **LOC105374217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374218 | XR_924719 | **LOC105374218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374219 | NR_146714 | **LINC02068** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374220 | XR_001741021 | **LOC105374220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374221 | XR_001741022 | **LOC105374221** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374224 | XR_002959700,XR_ | **LOC105374224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374225 | XR_924728 | **LOC105374225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.994 |
| 105374226 | XR_924729 | **LOC105374226** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374229 | XR_924732,XR_924 | **LOC105374229** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374230 | XR_924734,XR_924 | **LOC105374230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374234 | XR_001741025,XR_ | **LOC105374234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374235 | XR_001741029,XR_ | **LOC105374235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374240 | XR_924752 | **LOC105374240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374242 | XR_924754,XR_924 | **LOC105374242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374243 | XR_924756,XR_924 | **LOC105374243** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.075 |
| 105374244 | NR_134941 | **LINC01995** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374245 | XR_924767,XR_924 | **LOC105374245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.063 |
| 105374246 | XR_924771 | **LOC105374246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374247 | XR_924772 | **LOC105374247** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374248 | XR_924773 | **LOC105374248** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374249 | XR_002959682,XR_ | **LOC105374249** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.175 |
| 105374250 | NR_161198,NR_161 | **LINC02054** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374251 | XR_924788 | **LINC01839** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374253 | XR_001741049,XR_ | **LOC105374253** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374254 | XR_924792,XR_924 | **LOC105374254** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374257 | XR_001741051,XR_ | **LOC105374257** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374258 | XR_001741058,XR_ | **LOC105374258** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374259 | XR_924807 | **LOC105374259** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374260 | XR_001741060 | **LOC105374260** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374261 | NR_146716 | **LINC02041** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374262 | XR_924811 | **LOC105374262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374263 | XR_924812 | **LOC105374263** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374264 | XR_924813 | **LOC105374264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374265 | XR_924814 | **LOC105374265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374266 | NR_135537,NR_135 | **LINC01991** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105374270 | XR_924819 | **LOC105374270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374272 | XR_924821 | **LINC02013** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374275 | XR_002959702 | **LOC105374275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374276 | XR_924825,XR_924 | **LOC105374276** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374277 | XR_924827 | **LOC105374277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374280 | XR_001741071,XR_ | **LOC105374280** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374282 | XR_924838 | **LOC105374282** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374283 | XR_924839 | **LOC105374283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374284 | XR_924840,XR_924 | **LOC105374284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374285 | NR_146718 | **LINC02038** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374286 | XR_001741076,XR_ | **LOC105374286** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374287 | XR_001741075 | **LOC105374287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105374289 | XR_001741082,XR_ | **LINC02048** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374291 | XR_001741083 | **LOC105374291** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374292 | XR_001741084,XR_ | **LOC105374292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374293 | NR_146990 | **LINC01972** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374294 | XR_924873,XR_924 | **LOC105374294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374295 | XR_924875 | **LOC105374295** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374296 | XR_001741088 | **LOC105374296** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 105374297 | NR_136185,NR_136 | **LOC105374297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374298 | XR_002959696 | **LOC105374298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.898 |
| 105374299 | XM_011513362 | **LOC105374299** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105374301 | XM_017007603,XM | **LOC105374301** | mucin-1-like, transcript v | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105374303 | XR_924889 | **LOC105374303** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374304 | XR_001740542,XR_ | **LOC105374304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.169 |
| 105374306 | XR_924896 | **LOC105374306** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.191 |
| 105374307 | XR_924897 | **LOC105374307** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374308 | XR_001741089,XR_ | **LOC105374308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374309 | XR_924902 | **LOC105374309** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374310 | XR_001741090 | **LOC105374310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374312 | NR_153417 | **LOC105374312** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374313 | NR_136187 | **LOC105374313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374314 | XM_011513375 | **LOC105374314** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105374317 | XR_002959373 | **LOC105374317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374318 | XR_939801 | **LOC105374318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374320 | XR_939813 | **LOC105374320** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374322 | XR_002959374,XR_ | **LINC01830** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374323 | XR_001739338,XR_ | **LOC105374323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374325 | XR_939831 | **LOC105374325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374328 | XR_001739087,XR_ | **LOC105374328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374329 | XR_001739340,XR_ | **LOC105374329** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374332 | XR_939849 | **LOC105374332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374333 | XR_939851 | **LOC105374333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 105374334 | XR_002959376,XR_ | **LOC105374334** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 105374336 | XR_925020 | **LOC105374336** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374338 | NR_148199 | **LOC105374338** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374339 | XR_002959773,XR_ | **LOC105374339** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374340 | XR_925033,XR_925 | **LOC105374340** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.957 |
| 105374341 | XR_001741544,XR_ | **LOC105374341** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374343 | XR_001741546 | **LOC105374343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374344 | NR_134676 | **LOC105374344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374346 | XR_925043 | **LOC105374346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.285 |
| 105374347 | XR_925044,XR_925 | **LOC105374347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.137 |
| 105374348 | XR_925049,XR_925 | **LOC105374348** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374349 | XR_925052 | **LOC105374349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374352 | XR_925056 | **LOC105374352** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.760 |
| 105374353 | XR_925057 | **LOC105374353** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374354 | XR_925059 | **LOC105374354** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374355 | XR_925061 | **LOC105374355** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374357 | XR_925064,XR_925 | **LOC105374357** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374358 | XR_925069 | **LOC105374358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374359 | XR_925070 | **LOC105374359** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374362 | XR_925088,XR_925 | **LOC105374362** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374363 | XR_001739353 | **LOC105374363** | uncharacterized LOC105 | lncRNA | 7 | 4 | 8 | 5 | 0.678 |
| 105374364 | XR_925095,XR_925 | **LOC105374364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374365 | XR_925098 | **LOC105374365** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374366 | NR_134664,NR_134 | **LINC02482** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.902 |
| 105374367 | XR_925101 | **LOC105374367** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374368 | XR_925102 | **LOC105374368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374369 | XR_939869,XR_939 | **LOC105374369** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.817 |
| 105374370 | XR_925103 | **LOC105374370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 105374371 | XR_925104,XR_925 | **LOC105374371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374373 | XR_001741572,XR_ | **LOC105374373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374374 | NR_149125,NR_149 | **LINC02517** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374376 | XR_002959780,XR_ | **LOC105374376** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374377 | gene-LOC10537437 | **LOC105374377** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105374378 | NR_160725 | **LOC105374378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374381 | XR_001739186,XR_ | **LOC105374381** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374382 | XR_001739354,XR_ | **LOC105374382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 105374383 | XR_939876 | **LOC105374383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374384 | XR_939878 | **LOC105374384** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374386 | XR_939903 | **LOC105374386** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374389 | NR_136317 | **LOC105374389** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374391 | XR_925178,XR_925 | **LOC105374391** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374392 | XR_925180,XR_925 | **LOC105374392** | uncharacterized LOC105 | lncRNA | 8 | 6 | 9 | 7 | 0.807 |
| 105374394 | NR_147183,NR_147 | **LINC02484** | long intergenic non-prote | lncRNA | 5 | 5 | 6 | 6 | 0.917 |
| 105374396 | XR_001741656 | **LOC105374396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 105374397 | XR_001741657,XR_ | **LOC105374397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.059 |
| 105374399 | XR_925195 | **LOC105374399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.074 |
| 105374400 | NR_149124 | **LINC02505** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374402 | XR_925198 | **LOC105374402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374404 | XR_925210 | **LOC105374404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374406 | XR_001741505 | **LOC105374406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374407 | XR_925212 | **LOC105374407** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.082 |
| 105374408 | XR_925214 | **LOC105374408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374409 | XR_001741506,XR_ | **LOC105374409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374410 | NR_149123 | **LINC02513** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374411 | NR_146991 | **LINC02278** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374412 | XR_925227,XR_925 | **LOC105374412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374413 | XR_925230,XR_925 | **LOC105374413** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374414 | XR_001739380,XR_ | **LOC105374414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374418 | XR_925235 | **LOC105374418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.070 |
| 105374419 | XR_002959786,XR_ | **LOC105374419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374421 | XR_001741665,XR_ | **LOC105374421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374423 | XR_001741667,XR_ | **LOC105374423** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374425 | XR_001741668,XR_ | **PHOX2B-AS1** | PHOX2B antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374426 | XR_925257,XR_925 | **LOC105374426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374428 | NR_134668 | **LOC105374428** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374430 | XR_925263 | **LOC105374430** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.261 |
| 105374432 | XR_925265 | **LOC105374432** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374433 | XR_925266,XR_925 | **LOC105374433** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374434 | XR_925268 | **LOC105374434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374435 | XR_001739382,XR_ | **LOC105374435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374436 | NR_146993 | **LINC02383** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374438 | XR_001741673,XR_ | **LOC105374438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374439 | XR_925277 | **LOC105374439** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374440 | XR_925278 | **LOC105374440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374441 | XR_925279 | **LOC105374441** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374442 | XR_925280,XR_925 | **LOC105374442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374443 | XR_925283 | **LOC105374443** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374444 | XR_925284 | **LOC105374444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374445 | XR_001741684,XR_ | **LOC105374445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374449 | NR_146994 | **LINC01946** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374453 | XR_939938 | **LOC105374453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374454 | NR_146505 | **RASGRP3-AS1** | RASGRP3 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105374455 | XR_001739394,XR_ | **LOC105374455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105374456 | XR_939954 | **LOC105374456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374457 | XR_939952 | **LOC105374457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374458 | XR_001739396,XR_ | **LOC105374458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374459 | XR_001739398 | **LOC105374459** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374461 | XR_001739187 | **LOC105374461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374464 | XR_001739404,XR_ | **LOC105374464** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.779 |
| 105374465 | XR_939971 | **LOC105374465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374466 | XR_001739416 | **LOC105374466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374467 | XR_939973 | **LOC105374467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374468 | XR_939974 | **LOC105374468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374470 | XR_001739419 | **LOC105374470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374471 | XR_001739417,XR_ | **LOC105374471** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374473 | XR_001739420,XR_ | **LOC105374473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374474 | XR_001741575,XR_ | **LOC105374474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 105374475 | XR_939986 | **LOC105374475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374476 | XR_001741589,XR_ | **SLC2A9-AS1** | SLC2A9 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 0.971 |
| 105374478 | XR_925372 | **LOC105374478** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374479 | XR_925374 | **LOC105374479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374480 | XR_001741593,XR_ | **LOC105374480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374481 | XR_925385 | **LOC105374481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374482 | XR_925387 | **LOC105374482** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374483 | XR_925391 | **LOC105374483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374484 | NR_146995 | **LINC02360** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374488 | XR_925402 | **LOC105374488** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374489 | XR_925403 | **LOC105374489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374490 | XR_925404,XR_925 | **LOC105374490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374491 | XR_939992,XR_939 | **LOC105374491** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374492 | XR_001741374,XR_ | **LOC105374492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374493 | XR_001741369,XR_ | **LOC105374493** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 105374494 | XR_001741378 | **LOC105374494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374495 | XR_925412,XR_925 | **LOC105374495** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.155 |
| 105374496 | XR_925421 | **LOC105374496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374497 | XR_001739421,XR_ | **LOC105374497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374498 | XR_001741390,XR_ | **LOC105374498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374501 | XR_925427 | **LOC105374501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374502 | XR_925430 | **LOC105374502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374505 | XR_001741395 | **LOC105374505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374506 | XR_939997 | **LOC105374506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374507 | XR_925441 | **LOC105374507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374510 | XR_001741601,XR_ | **LOC105374510** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374511 | XR_925446 | **LOC105374511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374513 | XR_925449 | **LOC105374513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374514 | XR_925450 | **LOC105374514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374515 | XR_925451 | **LOC105374515** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374516 | NR_134233 | **LOC105374516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374517 | XR_001739424,XR_ | **LOC105374517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374519 | XR_001741606,XR_ | **LOC105374519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374520 | XR_925455 | **LOC105374520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374521 | XR_001741609,XR_ | **LOC105374521** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374523 | XR_001741614,XR_ | **LOC105374523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374524 | XR_001741610,XR_ | **LOC105374524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374525 | XR_925472 | **LOC105374525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374527 | XR_925475 | **LOC105374527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374528 | XR_001741615,XR_ | **LOC105374528** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374531 | XR_940001 | **LOC105374531** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374534 | XR_925485,XR_925 | **LOC105374534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374535 | XR_001741626,XR_ | **LOC105374535** | uncharacterized LOC105 | lncRNA | 1 | 3 | 2 | 4 | 1.825 |
| 105374536 | XR_925494 | **LOC105374536** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374537 | XR_940002 | **LOC105374537** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374538 | XR_001741631,XR_ | **LOC105374538** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 105374540 | XR_001741634,XR_ | **LINC02357** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374541 | XR_925507 | **LOC105374541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374542 | XR_925508 | **LOC105374542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374545 | XR_925510 | **LOC105374545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374546 | NR_134673,NR_134 | **STIM2-AS1** | STIM2 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.531 |
| 105374547 | XR_925513,XR_925 | **LOC105374547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374548 | XR_925517,XR_925 | **LOC105374548** | uncharacterized LOC105 | lncRNA | 12 | 14 | 13 | 15 | 1.147 |
| 105374549 | XR_925519 | **LOC105374549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374550 | XR_925520 | **LOC105374550** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374552 | XR_001741500 | **LOC105374552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374553 | XR_925524 | **LOC105374553** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374555 | XR_001739428,XR_ | **LOC105374555** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374556 | XR_925526 | **LOC105374556** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374557 | XR_001741639,XR_ | **LOC105374557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374558 | XR_925528 | **LOC105374558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374559 | XR_925530 | **LOC105374559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374561 | NR_146996 | **LINC02472** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374562 | XR_925543,XR_925 | **LOC105374562** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374564 | XR_925547 | **LOC105374564** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374565 | NR_149121,NR_149 | **LINC02501** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374566 | XR_925555 | **LOC105374566** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374567 | XR_001739433,XR_ | **LOC105374567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374568 | XR_940014 | **LOC105374568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374570 | XR_001739443,XR_ | **LOC105374570** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 105374571 | XR_940033 | **LOC105374571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 105374573 | XR_940038 | **LOC105374573** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374576 | XR_940041 | **LOC105374576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374577 | XR_001739447,XR_ | **LOC105374577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374580 | XR_940049 | **PRKCE-AS1** | PRKCE antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374581 | XR_940052 | **LOC105374581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374582 | NR_146999 | **LINC01820** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374584 | XR_940058 | **LOC105374584** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 105374588 | XR_940063 | **LOC105374588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.096 |
| 105374589 | XR_940067,XR_940 | **LOC105374589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374590 | XR_001739452,XR_ | **LOC105374590** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374591 | XR_001739454,XR_ | **LOC105374591** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374592 | XR_940074 | **LOC105374592** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374593 | XR_001739455,XR_ | **LOC105374593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374594 | XR_001739458,XR_ | **LOC105374594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374595 | XR_001739461 | **LOC105374595** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374596 | NR_135239 | **LINC01867** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374597 | XR_940081 | **LOC105374597** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374598 | XR_001739462,XR_ | **LOC105374598** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374600 | XR_940087 | **LOC105374600** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374601 | XR_940088 | **LOC105374601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374602 | XR_001742540,XR_ | **LOC105374602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374606 | XR_925669 | **LOC105374606** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374607 | XR_925671 | **LOC105374607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374608 | XR_925672,XR_925 | **LOC105374608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374610 | XR_940091 | **LOC105374610** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374612 | XR_925680,XR_925 | **LOC105374612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374614 | XR_925684 | **LOC105374614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374615 | XR_940093 | **LOC105374615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 105374616 | XR_925685 | **LOC105374616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374618 | XR_002956203,XR_ | **LOC105374618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374620 | NR_136207 | **LOC105374620** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374621 | XR_925702 | **LOC105374621** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374624 | NR_147000 | **LINC02162** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374625 | XR_001742556,XR_ | **LOC105374625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374626 | XR_925714 | **LOC105374626** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374627 | XR_925715 | **LINC02063** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374629 | XR_925717 | **LOC105374629** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374630 | XR_001742581 | **LOC105374630** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374631 | NR_134266 | **LINC02121** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374634 | XR_001742494,XR_ | **LOC105374634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374636 | XR_925733 | **LOC105374636** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105374639 | XR_925737 | **LOC105374639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374640 | XR_001739471,XR_ | **SPTBN1-AS1** | SPTBN1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374641 | XR_925740 | **LOC105374641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374642 | XR_001742496,XR_ | **LOC105374642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374643 | XR_925749,XR_925 | **LOC105374643** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374644 | XR_001742596,XR_ | **LINC02142** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374645 | XR_925756,XR_925 | **LOC105374645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374646 | XR_925763 | **LOC105374646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374647 | XR_925766,XR_925 | **LOC105374647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374648 | NR_147004 | **LINC02221** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374649 | XR_925776 | **LOC105374649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374651 | XR_925783,XR_925 | **LOC105374651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374652 | XR_002956210 | **LOC105374652** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374653 | XR_940104 | **LOC105374653** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374654 | XR_925791 | **LOC105374654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374655 | XR_925792 | **LOC105374655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374656 | XR_925793 | **LOC105374656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374657 | XR_925794 | **LOC105374657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374658 | NR_147005 | **LINC02220** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374659 | XR_001742603,XR_ | **LOC105374659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374660 | XR_001742606,XR_ | **LOC105374660** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374661 | XR_001742498 | **LOC105374661** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374662 | XR_002959387,XR_ | **LOC105374662** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374663 | XR_925804 | **LOC105374663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374664 | XR_001742614 | **LOC105374664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374666 | XR_001742615,XR_ | **LOC105374666** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374667 | XR_940106 | **EML6-AS1** | EML6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374668 | XR_925814 | **LOC105374668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374669 | XR_925815,XR_925 | **LOC105374669** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374672 | XR_925821 | **LOC105374672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374673 | XR_925822 | **LOC105374673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374674 | XR_940107 | **LOC105374674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374676 | NR_149120 | **LINC02241** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374677 | NR_147185 | **LINC02146** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374678 | XR_001742406,XR_ | **LOC105374678** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.686 |
| 105374681 | XR_925843 | **LOC105374681** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374682 | XR_925845 | **LOC105374682** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374683 | XR_925846 | **LOC105374683** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374685 | XR_925848 | **LOC105374685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374686 | XR_925849,XR_925 | **LOC105374686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374687 | XR_925851 | **LOC105374687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374688 | XR_925852,XR_925 | **LOC105374688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374689 | XR_925858,XR_925 | **LOC105374689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374690 | XR_940109 | **LOC105374690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374693 | NR_136209 | **LINC02211** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374694 | NR_147006 | **LINC02228** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374695 | XR_925873 | **LOC105374695** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374696 | XR_001742504,XR_ | **LOC105374696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374697 | XR_940111 | **LOC105374697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374698 | NR_134265 | **LINC02103** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374699 | XR_925879,XR_925 | **LOC105374699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374701 | XR_001742619,XR_ | **LOC105374701** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374702 | XR_001742624 | **LOC105374702** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374703 | XR_925886,XR_925 | **LOC105374703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374704 | NR_134264 | **LOC105374704** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374705 | XR_001742505 | **LOC105374705** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374706 | XR_925890 | **LOC105374706** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374707 | XR_925891 | **LOC105374707** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374709 | XR_001742625,XR_ | **LOC105374709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374711 | XR_925897 | **LOC105374711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 105374714 | XR_925900 | **LINC02061** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374715 | XR_925901 | **LOC105374715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374716 | NR_147008 | **LINC02160** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374717 | XR_925906 | **LOC105374717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374719 | XR_001742632 | **LOC105374719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374721 | XR_925916 | **LOC105374721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374723 | XR_001742633,XR_ | **LOC105374723** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374724 | XR_001742634,XR_ | **LOC105374724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374726 | XR_001739486 | **LOC105374726** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374727 | NR_134263 | **LOC105374727** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.891 |
| 105374728 | XR_925922,XR_925 | **LINC02117** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374729 | NR_134262 | **LINC02110** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374730 | XR_925927 | **LOC105374730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374731 | NR_147009 | **LINC02107** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374732 | XR_925931 | **LOC105374732** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374733 | XR_925933,XR_925 | **LOC105374733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374735 | XR_925936 | **LOC105374735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374736 | XR_001742646,XR_ | **LOC105374736** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374737 | XR_925942 | **LOC105374737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374739 | XR_001742650,XR_ | **LOC105374739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374740 | XR_001742652,XR_ | **LOC105374740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374744 | NR_147010 | **LINC01795** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374745 | XR_925964 | **LOC105374745** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.944 |
| 105374746 | XR_925966 | **LOC105374746** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.918 |
| 105374748 | XR_001742653,XR_ | **LOC105374748** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.818 |
| 105374749 | XR_001742656,XR_ | **C5orf34-AS1** | C5orf34 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.063 |
| 105374754 | XR_002959389,XR_ | **LOC105374754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374758 | XR_940136 | **LOC105374758** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374759 | XR_940137 | **LOC105374759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374760 | XR_940139 | **LOC105374760** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.123 |
| 105374761 | XR_940140 | **LOC105374761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374764 | XR_001739095,XR_ | **LOC105374764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.245 |
| 105374768 | XR_001739495 | **LOC105374768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374769 | XR_001739496,XR_ | **LOC105374769** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374771 | XR_001739491,XR_ | **LGALSL-DT** | LGALSL divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374772 | XR_940170 | **LOC105374772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374773 | XR_001739497,XR_ | **LOC105374773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374774 | NR_147011 | **LINC01805** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374775 | XR_001739502,XR_ | **LOC105374775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374776 | XR_001739503,XR_ | **LOC105374776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374777 | XR_940177 | **LOC105374777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 105374780 | XR_940187 | **LOC105374780** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374781 | XR_940191,XR_940 | **LOC105374781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374785 | XR_001739099,XR_ | **LOC105374785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374786 | XR_001739524,XR_ | **LOC105374786** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374789 | XR_940223 | **LOC105374789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 105374790 | XR_940225 | **LOC105374790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374791 | XR_001739529,XR_ | **LINC01890** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374792 | XR_940227,XR_940 | **LOC105374792** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374794 | XR_940230 | **LOC105374794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374795 | XR_001739534 | **LOC105374795** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.829 |
| 105374796 | XR_940232 | **LOC105374796** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374797 | XR_940233 | **LOC105374797** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374798 | XR_940234,XR_940 | **LOC105374798** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374800 | XR_940239 | **LOC105374800** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 105374802 | XR_940241 | **LOC105374802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374803 | XR_940242 | **LOC105374803** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374804 | XR_002959403,XR_ | **LOC105374804** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374807 | XR_940246 | **LOC105374807** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.348 |
| 105374808 | XR_001739539,XR_ | **LOC105374808** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374809 | XR_002959406,XR_ | **LOC105374809** | uncharacterized LOC105 | lncRNA | 11 | 12 | 12 | 13 | 1.080 |
| 105374810 | XR_001739547 | **LOC105374810** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 105374811 | XR_004643303,XR_ | **LOC105374811** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.703 |
| 105374813 | XR_940260 | **LOC105374813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374814 | XR_940261,XR_940 | **LOC105374814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374815 | XR_940263 | **LOC105374815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105374816 | XR_940264 | **LOC105374816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374817 | XR_001739552,XR_ | **LOC105374817** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374819 | XR_001739194,XR_ | **LOC105374819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374820 | NR_136311,NR_136 | **LOC105374820** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374821 | XR_940275 | **LOC105374821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374822 | XR_940276,XR_940 | **LOC105374822** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374823 | XR_001739562,XR_ | **LOC105374823** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374824 | XR_940286 | **LOC105374824** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374827 | XR_940291,XR_940 | **LOC105374827** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374828 | XR_940293 | **LOC105374828** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374829 | XR_001739195 | **LOC105374829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374831 | XR_001739196 | **LOC105374831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374832 | XR_940305 | **LOC105374832** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374833 | XR_940306 | **LOC105374833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374834 | XR_940307 | **LOC105374834** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374836 | XR_940308 | **LOC105374836** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.877 |
| 105374837 | XR_940309 | **LOC105374837** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.597 |
| 105374838 | XR_002959407 | **LOC105374838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.213 |
| 105374839 | XR_001739576 | **LOC105374839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374841 | XR_940316 | **LOC105374841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374842 | XR_940317 | **LOC105374842** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.155 |
| 105374843 | XR_940318 | **LOC105374843** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374845 | XR_940320 | **LOC105374845** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374846 | XR_940321,XR_940 | **LOC105374846** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374847 | XR_940323 | **LINC01955** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374848 | XR_940324 | **LOC105374848** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.102 |
| 105374851 | XR_001739584,XR_ | **LOC105374851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374852 | XR_940335,XR_940 | **LOC105374852** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.884 |
| 105374853 | XR_940341,XR_940 | **LOC105374853** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374854 | XR_001739585 | **LOC105374854** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374855 | XR_940348 | **LOC105374855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374862 | XR_001739587 | **LOC105374862** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374868 | XR_001739590 | **LOC105374868** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 105374869 | XR_001743908,XR_ | **LOC105374869** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374870 | XR_926356,XR_926 | **LOC105374870** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374873 | XR_001743915,XR_ | **LOC105374873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374875 | XR_001743914 | **LOC105374875** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105374879 | XR_001743918 | **LOC105374879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374880 | XR_926373 | **LOC105374880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374882 | XR_926381 | **LOC105374882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374883 | XR_926386,XR_926 | **LOC105374883** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374885 | NR_149118,NR_149 | **LINC02521** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374887 | XR_001743926,XR_ | **LOC105374887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374888 | XR_926394 | **NQO2-AS1** | NQO2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374889 | XR_926395 | **LOC105374889** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374890 | XR_002956320,XR_ | **LOC105374890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374893 | XR_926404 | **LOC105374893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374894 | XR_001743940,XR_ | **LOC105374894** | uncharacterized LOC105 | lncRNA | 10 | 7 | 11 | 8 | 0.758 |
| 105374895 | NR_149117 | **LINC02533** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374897 | XR_926412 | **LOC105374897** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374898 | XR_001743791,XR_ | **LOC105374898** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 105374901 | XR_926416 | **LOC105374901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374902 | XR_926428,XR_926 | **LOC105374902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374903 | XR_926431 | **LOC105374903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374904 | XR_926432 | **LOC105374904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374906 | XR_926436,XR_926 | **LOC105374906** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374907 | XR_926438 | **LOC105374907** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374910 | XR_001743950,XR_ | **LOC105374910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374911 | XR_926444,XR_926 | **LOC105374911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374912 | XR_926446 | **LOC105374912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374913 | XR_001743956 | **LOC105374913** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374914 | XR_001743951,XR_ | **LOC105374914** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374918 | XR_926456 | **LOC105374918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374919 | XR_926457 | **LOC105374919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374920 | XR_926458 | **LOC105374920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374921 | XR_926459 | **LOC105374921** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374923 | XR_926465 | **LOC105374923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374924 | XR_926466,XR_926 | **LOC105374924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374925 | XR_001743962,XR_ | **LOC105374925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374927 | XR_926477 | **LOC105374927** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374928 | XR_002956324,XR_ | **LOC105374928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 105374929 | XR_926485 | **LOC105374929** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374931 | XR_926488 | **LOC105374931** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374933 | XR_926491,XR_926 | **LOC105374933** | uncharacterized LOC105 | lncRNA | 9 | 7 | 10 | 8 | 0.750 |
| 105374934 | XR_001743978,XR_ | **LOC105374934** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374935 | XR_001743982 | **LOC105374935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374936 | XR_926496 | **LOC105374936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374937 | XR_926497 | **LOC105374937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.188 |
| 105374938 | XR_001743983,XR_ | **LOC105374938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374939 | XR_926500 | **LOC105374939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374940 | XR_926501 | **LOC105374940** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374942 | XR_001744000,XR_ | **LOC105374942** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374943 | XR_001743987,XR_ | **LOC105374943** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374944 | XR_001744004,XR_ | **LOC105374944** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374945 | XR_001744005,XR_ | **LOC105374945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374946 | XR_926520 | **LOC105374946** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374947 | XR_001743795 | **LOC105374947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374948 | XR_926530 | **LOC105374948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374949 | XR_926531,XR_926 | **LOC105374949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374951 | XR_926534 | **LOC105374951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374952 | NR_134616,NR_134 | **LOC105374952** | uncharacterized LOC105 | lncRNA | 14 | 16 | 15 | 17 | 1.167 |
| 105374953 | XR_001744007 | **LOC105374953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374955 | XR_926548,XR_926 | **LOC105374955** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374956 | NR_149116 | **MIR548A1HG** | MIR548A1 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374957 | XR_926557 | **LOC105374957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374958 | XR_001744010 | **LOC105374958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374959 | XR_002956329 | **LOC105374959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374960 | NR_134615 | **LOC105374960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374961 | XR_926561 | **LOC105374961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374963 | XR_001744015,XR_ | **LOC105374963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374965 | XR_926566 | **LOC105374965** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374966 | XR_926568,XR_926 | **LOC105374966** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374968 | XR_926571 | **LOC105374968** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.873 |
| 105374970 | XR_926573 | **LOC105374970** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374971 | XR_001744023,XR_ | **LOC105374971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374972 | NR_134613,NR_134 | **LOC105374972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374973 | XR_001744026 | **LOC105374973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374974 | XR_926583,XR_926 | **LOC105374974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374975 | XR_001744047,XR_ | **LOC105374975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374976 | XR_001744046 | **LOC105374976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374978 | XR_926603 | **LINC02828** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374981 | XR_926607 | **LOC105374981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.027 |
| 105374985 | XR_926612 | **LOC105374985** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.913 |
| 105374986 | XR_001744053,XR_ | **LOC105374986** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.040 |
| 105374988 | NR_134611 | **LOC105374988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374989 | XR_926617,XR_926 | **LOC105374989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 105374991 | XR_926636 | **LOC105374991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374992 | XR_926638 | **LOC105374992** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374995 | XR_001744070 | **LOC105374995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.067 |
| 105374996 | XR_926656,XR_926 | **LOC105374996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374997 | XR_926658 | **LOC105374997** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105374998 | XR_926659 | **LOC105374998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375001 | XR_926664 | **LOC105375001** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.835 |
| 105375002 | XR_926667 | **LOC105375002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375003 | XR_926668 | **LOC105375003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375005 | XR_001744074,XR_ | **LOC105375005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105375006 | XR_001744077 | **LOC105375006** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375008 | XR_926674 | **LOC105375008** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375009 | XR_926678,XR_926 | **LINC02829** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375010 | XR_926680,XR_926 | **LOC105375010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375012 | XR_926686 | **LOC105375012** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375013 | NR_138037 | **HCG20** | HLA complex group 20 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375014 | NR_134610 | **LINC02570** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375015 | NR_149115 | **LINC02571** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375018 | XR_926696 | **LOC105375018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.108 |
| 105375019 | XR_926697 | **LOC105375019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.779 |
| 105375020 | XR_926698 | **LOC105375020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.199 |
| 105375021 | XR_001744086,XR_ | **LOC105375021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375022 | XR_926705 | **LOC105375022** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.090 |
| 105375023 | XR_926706 | **LOC105375023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375024 | XR_001744088,XR_ | **LOC105375024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375025 | XR_926710,XR_926 | **LOC105375025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375026 | XR_001744089,XR_ | **LOC105375026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375027 | XR_002956337,XR_ | **LOC105375027** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375028 | XR_926726 | **LOC105375028** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.768 |
| 105375034 | XR_926745,XR_926 | **LOC105375034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375035 | XR_926747,XR_926 | **LOC105375035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375036 | XR_001744106,XR_ | **LOC105375036** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375037 | XR_926758 | **ETV7-AS1** | ETV7 and PTX1 antisens | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375038 | XR_926759 | **LOC105375038** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.870 |
| 105375040 | XR_926762 | **LOC105375040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375044 | XR_926767 | **LOC105375044** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.895 |
| 105375045 | XR_926772 | **LOC105375045** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375046 | XR_926773 | **LOC105375046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375047 | XR_926774 | **LOC105375047** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375049 | XR_001744113,XR_ | **LOC105375049** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375050 | XR_926783,XR_926 | **LOC105375050** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375051 | XR_001744116 | **LOC105375051** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375052 | XR_926787,XR_926 | **LOC105375052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375053 | XR_926790 | **LOC105375053** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375055 | XR_926794 | **LOC105375055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375056 | XR_926795,XR_926 | **LOC105375056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375059 | XR_001744119,XR_ | **LOC105375059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375060 | XR_001744120 | **LOC105375060** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375061 | XR_001744122,XR_ | **LOC105375061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375063 | XR_926812 | **LOC105375063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375064 | XR_926813 | **LOC105375064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375065 | XR_001744123,XR_ | **LOC105375065** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375067 | XR_926817 | **LOC105375067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375068 | XR_926818,XR_926 | **LOC105375068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375069 | XR_001744130,XR_ | **LOC105375069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375070 | XR_926833 | **LOC105375070** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375072 | XR_926835 | **LOC105375072** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375074 | XR_926838 | **LOC105375074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375075 | NR_134609 | **LOC105375075** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375077 | XR_001744135,XR_ | **RUNX2-AS1** | RUNX2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375078 | XR_926856 | **LOC105375078** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.896 |
| 105375079 | XR_001743800,XR_ | **LOC105375079** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 105375080 | XR_001744143,XR_ | **LOC105375080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375081 | XR_001744148,XR_ | **LOC105375081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375082 | XR_926865 | **LOC105375082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375084 | XR_926867 | **LOC105375084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375085 | XR_926868 | **LOC105375085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375087 | XR_001744157,XR_ | **LOC105375087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375091 | XR_001744159,XR_ | **LOC105375091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375095 | XR_926886 | **LOC105375095** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375097 | XR_001744170,XR_ | **LOC105375097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375098 | XR_926892 | **LOC105375098** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375100 | XR_926894 | **LOC105375100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375101 | XR_001744179 | **LOC105375101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375102 | XR_926901 | **LOC105375102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375103 | XR_001744178 | **LOC105375103** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375107 | XM_011515048 | **LOC105375107** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375112 | XM_011515664,XR_ | **LOC105375112** | putative protein FAM157I | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375113 | XR_001745038,XR_ | **LOC105375113** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375114 | XR_001745039,XR_ | **LOC105375114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375115 | NR_134324 | **LOC105375115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375116 | XM_017012903 | **LOC105375116** | TRIO and F-actin-binding | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375118 | XR_926965,XR_926 | **LOC105375118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375119 | XR_001745042 | **LOC105375119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.136 |
| 105375120 | XR_001745043,XR_ | **LOC105375120** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375122 | XR_001745047,XR_ | **LOC105375122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375123 | XR_001745049,XR_ | **LOC105375123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375124 | XR_001745055,XR_ | **LOC105375124** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375126 | XR_001745061,XR_ | **LOC105375126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375127 | XR_001745063,XR_ | **LOC105375127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375128 | XR_926991 | **LOC105375128** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375130 | XR_001745072,XR_ | **LOC105375130** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.745 |
| 105375131 | NR_158215 | **LOC105375131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375132 | XR_001744897,XR_ | **SDK1-AS1** | SDK1 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375133 | XR_926999 | **LOC105375133** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375134 | gene-LOC10537513 | **LOC105375134** | . | pseudogene | 0 | 0 | 1 | 1 | 0.913 |
| 105375138 | XR_001745075,XR_ | **LOC105375138** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375142 | XR_927015 | **LOC105375142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375144 | XR_001745082,XR_ | **LOC105375144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375145 | XR_927021 | **LOC105375145** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375146 | XR_927022,XR_927 | **LOC105375146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375147 | XR_927026 | **LOC105375147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375148 | XR_001745085,XR_ | **LOC105375148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375149 | XR_001745088 | **LOC105375149** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375150 | XR_001745089 | **LOC105375150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375151 | XR_001744904,XR_ | **LOC105375151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375153 | XR_001744902,XR_ | **LOC105375153** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375154 | XR_001745092,XR_ | **LOC105375154** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375155 | XR_927036 | **LOC105375155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375156 | XR_001745093,XR_ | **LOC105375156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375157 | XR_927043 | **LOC105375157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375158 | XR_927044 | **LOC105375158** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375161 | XR_002956540,XR_ | **LOC105375161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375162 | XR_927051 | **LOC105375162** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375164 | XR_001745100,XR_ | **LOC105375164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375166 | NR_134258 | **LOC105375166** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375167 | XR_927058 | **LOC105375167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375168 | XR_001745102 | **LOC105375168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375169 | XR_001745103,XR_ | **LOC105375169** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375170 | XR_927067 | **LOC105375170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375171 | XR_927074 | **LOC105375171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375172 | XR_001745108 | **LOC105375172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 105375176 | XR_927081 | **HDAC9-AS1** | HDAC9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375179 | XR_001745110 | **LOC105375179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375180 | XR_927086 | **LOC105375180** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375181 | XR_927088 | **LOC105375181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375183 | XR_001745113,XR_ | **LOC105375183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375184 | XR_002956542 | **LOC105375184** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375185 | XR_927094,XR_927 | **LOC105375185** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375186 | XR_927096 | **LOC105375186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375187 | XR_927098 | **LOC105375187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375188 | XR_001745008 | **LOC105375188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375191 | XR_927102 | **LOC105375191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375193 | XR_927103 | **LOC105375193** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375194 | XR_927104 | **LOC105375194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375195 | XR_927105 | **LOC105375195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105375196 | XR_927106 | **LOC105375196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375198 | XR_927111,XR_927 | **LOC105375198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375199 | XR_927113,XR_927 | **LOC105375199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375200 | XR_001745151,XR_ | **LOC105375200** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375202 | XR_927126 | **LOC105375202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 105375206 | XR_927134 | **LOC105375206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375207 | XR_001745153,XR_ | **LOC105375207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375208 | XR_001744910 | **LOC105375208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375210 | XR_927138 | **TAX1BP1-AS1** | TAX1BP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375211 | XR_927139 | **LOC105375211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375213 | XR_927142 | **LOC105375213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375215 | XR_927145 | **FKBP14-AS1** | FKBP14 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375216 | XR_927146 | **LOC105375216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375217 | XR_927147 | **LOC105375217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.085 |
| 105375218 | NR_136267 | **LOC105375218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 105375219 | XR_927156 | **LOC105375219** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.978 |
| 105375220 | XR_001745154,XR_ | **LOC105375220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375221 | XR_927158 | **LOC105375221** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 105375222 | XR_001745155,XR_ | **LOC105375222** | uncharacterized LOC105 | lncRNA | 4 | 4 | 5 | 5 | 1.057 |
| 105375224 | XR_927162 | **LOC105375224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375228 | XR_001745162,XR_ | **LOC105375228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375230 | XR_927168 | **LOC105375230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375231 | XR_001745167 | **LOC105375231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375233 | XR_927174 | **LOC105375233** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375235 | XR_002956502,XR_ | **LOC105375235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375236 | XR_001745170,XR_ | **LOC105375236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375237 | XR_001745174,XR_ | **LOC105375237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375238 | XR_927185,XR_927 | **LOC105375238** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375239 | XR_927187 | **LOC105375239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375240 | XR_927188,XR_927 | **LOC105375240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.249 |
| 105375241 | XR_927190 | **LOC105375241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375242 | XR_001745181,XR_ | **LOC105375242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375243 | XR_927193 | **LOC105375243** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375244 | XR_001745177,XR_ | **LOC105375244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375245 | XR_927195,XR_927 | **LOC105375245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375246 | XR_927197,XR_927 | **LOC105375246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375247 | XR_927199 | **LOC105375247** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375248 | XR_927200 | **LOC105375248** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375249 | XR_001745011,XR_ | **LOC105375249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375250 | XR_001745012 | **LOC105375250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375251 | XR_927206 | **LOC105375251** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375252 | gene-LOC1053752 | **LOC105375252** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105375253 | XR_927207 | **LOC105375253** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375257 | XR_927221,XR_927 | **LOC105375257** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375258 | XR_927223 | **LOC105375258** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375259 | XR_927225 | **LOC105375259** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.022 |
| 105375260 | XR_927226 | **LOC105375260** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 105375261 | XR_927227 | **LINC01952** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375262 | XR_927228 | **LOC105375262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375264 | XR_001745204 | **LOC105375264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375265 | XR_927241,XR_927 | **LOC105375265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 105375266 | XR_927243,XR_927 | **LOC105375266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375267 | XR_927248 | **LOC105375267** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375268 | XR_927249 | **LOC105375268** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375270 | XR_927251 | **LOC105375270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105375271 | XR_001745016,XR_ | **LOC105375271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375272 | XR_927254 | **LOC105375272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375273 | XR_927255,XR_927 | **LINC02838** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375277 | XR_927260 | **LOC105375277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375278 | XR_001745209 | **LOC105375278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375282 | XR_927266,XR_927 | **LOC105375282** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375283 | XR_927271 | **GS1-278J22.2** | uncharacterized GS1-27 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375284 | XR_001745212,XR_ | **LOC105375284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375287 | XR_001745213 | **LOC105375287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.983 |
| 105375288 | XR_927277 | **LOC105375288** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375289 | XR_927278,XR_927 | **LOC105375289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375291 | XR_927285,XR_927 | **LOC105375291** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375292 | XR_927290 | **LOC105375292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375294 | XR_927293,XR_927 | **LOC105375294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375295 | XR_927296,XR_927 | **LOC105375295** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375296 | XR_001745216,XR_ | **LOC105375296** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375297 | NR_136269 | **LOC105375297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375298 | XR_927303,XR_927 | **LOC105375298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375299 | XR_927305 | **LOC105375299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375300 | XR_927306 | **LOC105375300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375301 | XR_927307 | **LOC105375301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375302 | XR_001745217 | **LOC105375302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375303 | NR_165252 | **LOC105375303** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375304 | NR_136270,NR_136 | **LOC105375304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375310 | XR_001739612 | **LOC105375310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375311 | XR_001739625 | **LOC105375311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375313 | XR_927567 | **LOC105375313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375314 | XR_927568,XR_927 | **LOC105375314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375315 | XR_927570,XR_927 | **LOC105375315** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375317 | XR_002956506,XR_ | **LOC105375317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375318 | XR_001745236,XR_ | **LOC105375318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375319 | XR_002956507,XR_ | **LOC105375319** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375321 | XR_001744931 | **LOC105375321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375322 | XR_001744922,XR_ | **LOC105375322** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375323 | XR_001745020,XR_ | **LOC105375323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375324 | XR_927599 | **LOC105375324** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375326 | XR_927602 | **LOC105375326** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375328 | XR_927604,XR_927 | **LOC105375328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375329 | XR_927606 | **LOC105375329** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375330 | XR_001744932,XR_ | **LOC105375330** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 105375333 | XR_001744943,XR_ | **LOC105375333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375334 | XR_001744935,XR_ | **LOC105375334** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.618 |
| 105375336 | XR_002956509,XR_ | **LOC105375336** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375337 | XR_927635 | **LOC105375337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375340 | XR_001745238,XR_ | **LOC105375340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375341 | XR_002956569,XR_ | **LOC105375341** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375342 | XR_927646 | **LOC105375342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375343 | XR_927647 | **LOC105375343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375344 | XR_001745023,XR_ | **LOC105375344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375345 | XR_927649,XR_927 | **LOC105375345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375346 | XR_927652 | **LOC105375346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375347 | XR_927653 | **LOC105375347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.885 |
| 105375350 | XR_927656 | **LOC105375350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.901 |
| 105375352 | XR_001745244 | **LOC105375352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375355 | NM_001347684 | **UPK3B** | uroplakin 3B | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375356 | XR_001744951,XR_ | **LOC105375356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375358 | XR_927687 | **LOC105375358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375359 | XR_001744953 | **LOC105375359** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375361 | XR_927692 | **LOC105375361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375363 | XR_001745246,XR_ | **LOC105375363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 105375366 | XR_927698 | **LOC105375366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375368 | XR_927700,XR_927 | **LOC105375368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375369 | XR_001744957,XR_ | **LOC105375369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375370 | XR_001744960,XR_ | **LOC105375370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375371 | XR_927707 | **LOC105375371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375372 | XR_927708 | **LOC105375372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375373 | XR_001745250,XR_ | **LOC105375373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375376 | XR_927712,XR_927 | **LOC105375376** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375377 | XR_927715 | **LOC105375377** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375378 | XR_927716 | **LOC105375378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375380 | NR_134240 | **LINC00972** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105375382 | XR_001745256,XR_ | **LOC105375382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.033 |
| 105375384 | XR_927722 | **LOC105375384** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.983 |
| 105375386 | XR_001745258,XR_ | **LOC105375386** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375387 | XR_001745262,XR_ | **LOC105375387** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375392 | XR_001744965,XR_ | **LOC105375392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375396 | NR_145992 | **TMBIM7P** | transmembrane BAX inh | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105375397 | XR_927744 | **LOC105375397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375400 | XR_927749 | **LOC105375400** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375401 | NR_134235 | **TFPI2-DT** | TFPI2 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375402 | XR_927751 | **LOC105375402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.799 |
| 105375403 | XR_001745272 | **BET1-AS1** | BET1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375404 | XR_001745277,XR_ | **LOC105375404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375405 | XR_001745278,XR_ | **PPP1R9A-AS1** | PPP1R9A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375409 | XR_927773,XR_927 | **LOC105375409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375410 | XR_001745288,XR_ | **LOC105375410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375411 | XR_927780 | **LOC105375411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375412 | XR_927781 | **LOC105375412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375414 | XR_927783 | **LOC105375414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375416 | XR_001745293 | **LOC105375416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375417 | XR_001745290 | **LOC105375417** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375418 | XR_927790 | **LOC105375418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375419 | XR_927791,XR_927 | **LOC105375419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375421 | XR_927797,XR_927 | **LOC105375421** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.899 |
| 105375422 | XR_001745294,XR_ | **LOC105375422** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.218 |
| 105375423 | NR_159959,NR_159 | **LOC105375423** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.756 |
| 105375426 | XR_927809 | **LOC105375426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 105375427 | XR_927810 | **LOC105375427** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 1.034 |
| 105375429 | NR_133946 | **LOC105375429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375430 | NR_146550 | **SLC12A9-AS1** | SLC12A9 antisense RNA | lncRNA | 2 | 2 | 3 | 3 | 1.091 |
| 105375431 | XR_001745304,XR_ | **LOC105375431** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375433 | XR_001744971,XR_ | **LOC105375433** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375434 | XR_001744972,XR_ | **LOC105375434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 105375435 | XR_001745315 | **LOC105375435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375436 | XR_927837,XR_927 | **LOC105375436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375440 | XR_927844 | **LOC105375440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375441 | XR_001744980,XR_ | **PRKAR2B-AS1** | PRKAR2B antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375443 | XR_927848 | **LOC105375443** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375444 | XR_927850 | **LOC105375444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375445 | XR_927851 | **LOC105375445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375446 | XR_001745318,XR_ | **LOC105375446** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375448 | XR_927855,XR_927 | **LOC105375448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 105375450 | XR_927862 | **LOC105375450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375451 | XR_001744982,XR_ | **LOC105375451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375452 | XR_001744983,XR_ | **LOC105375452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375456 | XR_927870 | **LOC105375456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375457 | XR_001745323,XR_ | **LOC105375457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375461 | XR_927884,XR_927 | **LOC105375461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375462 | XR_927886 | **LOC105375462** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375463 | XR_001745329,XR_ | **LOC105375463** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375465 | XR_927895 | **LOC105375465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375466 | XR_927896 | **LOC105375466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375467 | XR_927897,XR_927 | **LOC105375467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375468 | XR_927901 | **LOC105375468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375469 | XR_927902 | **LOC105375469** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375470 | XR_927903,XR_927 | **LOC105375470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.035 |
| 105375471 | XR_927905,XR_927 | **LOC105375471** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375472 | XR_001745344 | **LOC105375472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375473 | XR_927909 | **LOC105375473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375475 | NR_131960,NR_131 | **LINC02476** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375477 | XR_927914,XR_927 | **LOC105375477** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375478 | XR_927917 | **LOC105375478** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375481 | XR_001745347 | **LOC105375481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375482 | XR_927924 | **LOC105375482** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375483 | NR_133947 | **LOC105375483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375484 | XR_927927,XR_927 | **LOC105375484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375486 | XR_927931 | **LINC02830** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375487 | XR_927933 | **LOC105375487** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375488 | XR_927934,XR_927 | **LOC105375488** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375489 | XR_927938 | **LOC105375489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375490 | XR_001745351,XR_ | **LOC105375490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375492 | XR_001745353,XR_ | **LOC105375492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375493 | XR_927944 | **LOC105375493** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375494 | XR_001745354 | **LOC105375494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375497 | XR_927957,XR_927 | **LOC105375497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375500 | XR_927962 | **LOC105375500** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.856 |
| 105375501 | XR_927963 | **LOC105375501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375503 | XR_001745362,XR_ | **LOC105375503** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375504 | NR_133928 | **LOC105375504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375505 | XR_927971,XR_927 | **LOC105375505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375508 | XR_001744984,XR_ | **LOC105375508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375509 | XR_001744985 | **LOC105375509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375511 | XR_927983 | **LOC105375511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375512 | NR_133931 | **LOC105375512** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375513 | XR_002956515,XR_ | **LOC105375513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.061 |
| 105375514 | XR_001744986,XR_ | **LOC105375514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375517 | XR_927999,XR_928 | **LOC105375517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375518 | XR_928001 | **LOC105375518** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375519 | XR_001745364,XR_ | **LOC105375519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375520 | XR_001745366,XR_ | **LOC105375520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375521 | XR_928021 | **LOC105375521** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.166 |
| 105375522 | XR_001745032,XR_ | **LOC105375522** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375523 | XR_001745378,XR_ | **LOC105375523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 105375524 | XR_928033 | **LOC105375524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375525 | XR_928034 | **LOC105375525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375527 | XR_928037 | **LOC105375527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375530 | XR_001745383 | **LOC105375530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375532 | XR_928043 | **LOC105375532** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375534 | XR_001745387 | **LOC105375534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 105375535 | XR_928046,XR_928 | **LOC105375535** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375536 | XR_001744989,XR_ | **LOC105375536** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.891 |
| 105375537 | XR_928053 | **LOC105375537** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375538 | XR_001744991,XR_ | **LOC105375538** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105375539 | XR_001745393,XR_ | **LOC105375539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375541 | XR_001745392 | **LOC105375541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 105375542 | XR_928065 | **LOC105375542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375543 | XR_928066,XR_928 | **LOC105375543** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375544 | XR_001745395 | **LOC105375544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 105375545 | NR_133932 | **TMEM139-AS1** | TMEM139 antisense RNA | lncRNA | 0 | 1 | 1 | 2 | 1.411 |
| 105375546 | XR_928072 | **LOC105375546** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375547 | XR_928075 | **LOC105375547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.815 |
| 105375548 | XR_001744996,XR_ | **LOC105375548** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375549 | XR_002956526 | **LOC105375549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375551 | XR_928090 | **LOC105375551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375552 | XR_928091 | **LOC105375552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375553 | XR_001745396 | **LOC105375553** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375554 | XR_001744998,XR_ | **LOC105375554** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375556 | NR_133929,NR_133 | **LOC105375556** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375557 | XR_001745397 | **LOC105375557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.776 |
| 105375559 | XR_928103 | **LOC105375559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375560 | XR_928104 | **LOC105375560** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375563 | XR_928157,XR_928 | **REPIN1-AS1** | REPIN1 antisense RNA 1 | lncRNA | 0 | 1 | 1 | 2 | 1.111 |
| 105375564 | XR_928160 | **ZNF775-AS1** | ZNF775 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375566 | XR_001745422,XR_ | **LOC105375566** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 105375567 | XR_928169,XR_928 | **LOC105375567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375570 | XR_928178 | **LOC105375570** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375571 | XR_928179 | **LOC105375571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105375574 | XR_928183 | **LOC105375574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375577 | XR_928187 | **LOC105375577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375578 | XR_928188 | **LOC105375578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375579 | XR_928189 | **LOC105375579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375580 | XR_928190 | **LOC105375580** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375581 | XR_001745003,XR_ | **LOC105375581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375582 | XR_001745000,XR_ | **LOC105375582** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375584 | XR_928221,XR_928 | **LOC105375584** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375586 | XR_001745434,XR_ | **LOC105375586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375587 | XR_001745436,XR_ | **LOC105375587** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375588 | XR_001745439,XR_ | **LOC105375588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375589 | XR_928228,XR_928 | **LOC105375589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375591 | XR_928234 | **LOC105375591** | uncharacterized LOC105 | lncRNA | 1 | 2 | 2 | 3 | 1.342 |
| 105375592 | XR_001745442 | **LOC105375592** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375593 | XR_928236 | **LOC105375593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375594 | XR_928237,XR_928 | **LOC105375594** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375597 | XR_928242 | **LOC105375597** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375599 | XR_928244 | **LOC105375599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375601 | XR_001745444,XR_ | **LOC105375601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375602 | XR_928249 | **LOC105375602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375603 | XR_928250 | **LOC105375603** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375604 | XR_928255 | **LOC105375604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375605 | XR_001745007 | **LOC105375605** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375606 | NR_147077 | **MNX1-AS2** | MNX1 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375607 | XR_928258,XR_928 | **LOC105375607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375610 | XR_001745447,XR_ | **LOC105375610** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375613 | XR_002956591,XR_ | **LOC105375613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375614 | XR_928275 | **LOC105375614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375615 | XR_928276 | **LOC105375615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375616 | NR_132379 | **LINC01022** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375622 | XR_001745725 | **LINC02849** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375623 | XR_928373,XR_928 | **LOC105375623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375624 | XR_001745985,XR_ | **LOC105375624** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.685 |
| 105375626 | XR_928380 | **LOC105375626** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375628 | XR_928382 | **LOC105375628** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375629 | XR_001745651,XR_ | **LOC105375629** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375630 | XR_001745653 | **LOC105375630** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375631 | XR_002956667 | **LOC105375631** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375633 | XR_928389 | **LOC105375633** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375634 | XR_928390,XR_928 | **LOC105375634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375635 | XR_928400 | **LOC105375635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375637 | XR_928403 | **LOC105375637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375638 | XR_928404 | **LOC105375638** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375639 | XR_928405 | **LOC105375639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375641 | XR_928412 | **LOC105375641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375642 | XR_001745998,XR_ | **LOC105375642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375643 | XR_001746003 | **LOC105375643** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375644 | XR_928416,XR_928 | **LOC105375644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375645 | XR_928420,XR_928 | **LOC105375645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375646 | XR_928422 | **LOC105375646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375647 | XR_001746004 | **LOC105375647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375648 | XR_928424 | **LOC105375648** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375650 | NR_132986,NR_132 | **MIR3150BHG** | MIR3150B host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375652 | XR_928431 | **LOC105375652** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375653 | XR_928432 | **LOC105375653** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375655 | XR_928434 | **LOC105375655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375657 | XR_928437 | **LOC105375657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375659 | XR_001746009,XR_ | **LOC105375659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375660 | XR_928443,XR_928 | **LOC105375660** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375666 | XR_928448 | **VPS13B-DT** | VPS13B divergent transc | lncRNA | 6 | 7 | 7 | 8 | 1.065 |
| 105375668 | XR_928449 | **LOC105375668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375669 | XR_001746012,XR_ | **LOC105375669** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375670 | XR_001746015,XR_ | **LOC105375670** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105375671 | XR_928454 | **LOC105375671** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375672 | XR_001746019 | **LOC105375672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375673 | XR_928456 | **LOC105375673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375674 | XR_928458,XR_928 | **LOC105375674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 105375675 | XR_928460,XR_928 | **LOC105375675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.203 |
| 105375676 | XR_928465 | **LOC105375676** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375679 | XR_928470 | **LINC02844** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375680 | XR_928471 | **LINC02845** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375683 | NR_168428 | **LOC105375683** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.915 |
| 105375684 | XR_928478 | **LOC105375684** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375685 | XR_928490 | **LOC105375685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375686 | XR_928491 | **LOC105375686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375688 | XR_001745680,XR_ | **LOC105375688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375689 | XR_001745675,XR_ | **LOC105375689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375690 | NR_145697,NR_145 | **LOC105375690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375691 | XR_928506,XR_928 | **LOC105375691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375692 | XR_001746027 | **LOC105375692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375693 | XR_928509 | **LOC105375693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375694 | XR_928510 | **LOC105375694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375695 | XR_928511 | **LOC105375695** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375696 | XR_001745682,XR_ | **LOC105375696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375700 | XR_001746028,XR_ | **LOC105375700** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.283 |
| 105375701 | XR_928525 | **LOC105375701** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375703 | XR_928527 | **LOC105375703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375704 | XR_928528,XR_928 | **LOC105375704** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 105375705 | XR_928534 | **LOC105375705** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375706 | NR_146282 | **LINC02237** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.663 |
| 105375707 | XR_928539,XR_928 | **LOC105375707** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375709 | XR_928544 | **LOC105375709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375710 | XR_928545 | **LOC105375710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375711 | XR_928550,XR_928 | **LOC105375711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375712 | XR_928552,XR_928 | **LOC105375712** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375713 | NR_136278 | **LOC105375713** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375715 | XR_928564,XR_928 | **LOC105375715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375716 | XR_001746038,XR_ | **LOC105375716** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375717 | XR_928573 | **LOC105375717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375719 | XR_001746039,XR_ | **LOC105375719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375721 | XR_001746041,XR_ | **LOC105375721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375723 | XR_928581 | **LOC105375723** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375724 | XR_001746052,XR_ | **LOC105375724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375725 | XR_928585 | **LOC105375725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375726 | NR_149111,NR_149 | **MAL2-AS1** | MAL2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375727 | XR_928589 | **LOC105375727** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375728 | XR_001745684,XR_ | **LOC105375728** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.038 |
| 105375730 | XR_928593 | **LOC105375730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375731 | XR_928596 | **LOC105375731** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375732 | XR_928597,XR_928 | **LINC02855** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375733 | XR_928599 | **LOC105375733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375734 | NR_131202 | **SMILR** | smooth muscle induced | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375737 | XR_001746070,XR_ | **LOC105375737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375738 | XR_928606 | **LOC105375738** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375739 | XR_928607 | **LOC105375739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375740 | XR_928608 | **LOC105375740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 105375741 | XR_001745686,XR_ | **LOC105375741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375742 | XR_928611 | **LOC105375742** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375743 | XR_001745689,XR_ | **LOC105375743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375744 | NR_134457 | **LOC105375744** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375746 | XR_001746072,XR_ | **LOC105375746** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375747 | XR_928630 | **LOC105375747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375748 | XR_928631 | **LOC105375748** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375749 | XR_928632 | **LOC105375749** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375750 | XR_928633 | **LOC105375750** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375751 | XR_001746076,XR_ | **LOC105375751** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105375752 | XR_001746081,XR_ | **LOC105375752** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375753 | XR_001746084,XR_ | **LOC105375753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375754 | XR_001746085,XR_ | **LOC105375754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375758 | XR_002956727,XR_ | **LOC105375758** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375759 | XR_001746090,XR_ | **LOC105375759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375760 | XR_001746087,XR_ | **LOC105375760** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375761 | XR_001746091,XR_ | **LOC105375761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375762 | XR_928656,XR_928 | **LOC105375762** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375763 | XR_928659 | **LOC105375763** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375765 | XR_001745740,XR_ | **LOC105375765** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375767 | XR_928665 | **LOC105375767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375768 | XR_928666 | **LOC105375768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375769 | XR_001746095,XR_ | **LOC105375769** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375771 | XR_001746096,XR_ | **LOC105375771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375772 | XR_928671,XR_928 | **LOC105375772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375773 | NR_134462,NR_134 | **LOC105375773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375775 | XR_928694 | **LOC105375775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375776 | XR_928695 | **LOC105375776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375777 | XR_928699 | **LOC105375777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375779 | XR_001746116,XR_ | **LOC105375779** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375781 | XR_001746118,XR_ | **LOC105375781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375782 | XR_001746120,XR_ | **LOC105375782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375783 | XR_928708 | **LOC105375783** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375784 | XR_002956733 | **LOC105375784** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375785 | XR_001746124,XR_ | **LOC105375785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 105375787 | NR_161376 | **LOC105375787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375789 | XR_928722 | **LOC105375789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375790 | XR_001746126,XR_ | **LOC105375790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375791 | XR_001745743,XR_ | **LOC105375791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375792 | XR_928728 | **LOC105375792** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375794 | XR_001745744,XR_ | **LOC105375794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375795 | XR_001746134 | **LOC105375795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375798 | XR_001746136,XR_ | **LOC105375798** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.044 |
| 105375799 | XR_928737 | **LOC105375799** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375800 | NR_136279 | **LOC105375800** | SREBF pathway regulat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105375805 | XR_001746147,XR_ | **LOC105375805** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.845 |
| 105375809 | XM_017005438 | **LOC105375809** | platelet endothelial aggr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375811 | XR_928827,XR_928 | **LOC105375811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375812 | XR_928835 | **LOC105375812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375813 | XR_928836 | **LOC105375813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375814 | XR_928838,XR_928 | **LOC105375814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375815 | XR_928840,XR_928 | **LOC105375815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375816 | XM_011517651,XR_ | **LOC105375816** | putative coiled-coil doma | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375817 | XM_017014129 | **LOC105375817** | POTE ankyrin domain fa | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375818 | XR_001745889 | **LOC105375818** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375819 | XR_928848,XR_928 | **TCONS_00068220** | uncharacterized TCONS | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375820 | XR_928852 | **LOC105375820** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375821 | XR_001745891,XR_ | **LOC105375821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375822 | XR_002956707,XR_ | **LOC105375822** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375823 | XR_928857 | **LINC02847** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375825 | XR_001745894,XR_ | **LOC105375825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375826 | XR_928860 | **LOC105375826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375828 | XR_928862 | **LOC105375828** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375829 | XR_001745896,XR_ | **LOC105375829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375830 | XR_928864,XR_928 | **LOC105375830** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375831 | XR_928866 | **LOC105375831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375833 | XR_928868,XR_928 | **LOC105375833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.009 |
| 105375835 | XR_001745898 | **LOC105375835** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 105375836 | XR_928877 | **LOC105375836** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375839 | XR_928895,XR_928 | **LOC105375839** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.950 |
| 105375840 | XR_001745913 | **LOC105375840** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375841 | XR_928898,XR_928 | **LOC105375841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375842 | XR_928900 | **LOC105375842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375843 | NR_134323 | **LOC105375843** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375844 | XR_928903 | **LOC105375844** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375845 | XR_928904 | **LOC105375845** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375846 | XR_001745916,XR_ | **LOC105375846** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 105375847 | NR_149110 | **CERNA3** | competing endogenous l | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105375849 | XR_928910 | **LOC105375849** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375850 | XR_928912 | **LOC105375850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375851 | XR_928913,XR_928 | **LOC105375851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375852 | XR_928915,XR_928 | **LOC105375852** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375855 | XR_928920 | **LOC105375855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375856 | XR_928921 | **LOC105375856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375857 | XR_001745921 | **LOC105375857** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375858 | XR_928924 | **LOC105375858** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375859 | XR_002956709,XR_ | **LOC105375859** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375860 | XR_928930,XR_928 | **LOC105375860** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375861 | XR_001745714,XR_ | **LOC105375861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375863 | XR_928934 | **LOC105375863** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375864 | XR_001745923,XR_ | **LOC105375864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375870 | XR_928951 | **LOC105375870** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375871 | XR_928969,XR_928 | **LOC105375871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375873 | XR_001745931 | **LOC105375873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 105375874 | XR_001745932,XR_ | **LOC105375874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375875 | XR_001745934,XR_ | **LOC105375875** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375876 | XR_928987 | **LOC105375876** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375877 | XR_928989 | **LOC105375877** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375878 | XR_001745936,XR_ | **LOC105375878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375879 | XR_001745944,XR_ | **LOC105375879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375880 | XR_928993,XR_928 | **LOC105375880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375881 | XR_928996 | **LOC105375881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375883 | XR_001745948,XR_ | **LOC105375883** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375884 | XR_929015 | **LOC105375884** | uncharacterized LOC105 | lncRNA | 1 | 3 | 2 | 4 | 1.467 |
| 105375885 | XR_929016,XR_929 | **LOC105375885** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375886 | XR_929019,XR_929 | **LOC105375886** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375888 | XR_929024 | **LOC105375888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375889 | XR_929026 | **LOC105375889** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375890 | XR_929027,XR_929 | **LOC105375890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375892 | XR_929032 | **LOC105375892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375894 | XR_001745954 | **LOC105375894** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 105375896 | XR_929040 | **LOC105375896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 105375897 | XR_929042 | **LOC105375897** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375899 | XR_929044 | **LOC105375899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375901 | XR_929046 | **LOC105375901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375902 | XR_001745955,XR_ | **LOC105375902** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.858 |
| 105375903 | XR_001745956,XR_ | **LOC105375903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375904 | XR_001745957,XR_ | **LOC105375904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375905 | XR_929058 | **LOC105375905** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.857 |
| 105375906 | XR_929059 | **LOC105375906** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375909 | XR_001745963 | **LOC105375909** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375911 | XR_001745972 | **LOC105375911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375912 | XR_929075 | **LOC105375912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375913 | XR_929077 | **LOC105375913** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375914 | XR_001745965,XR_ | **LOC105375914** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375915 | XR_929080 | **LOC105375915** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375916 | XR_001745973,XR_ | **LOC105375916** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375918 | XR_001745975 | **LOC105375918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375919 | XR_929088,XR_929 | **LOC105375919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375920 | XR_929092,XR_929 | **LOC105375920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375921 | XR_001745976 | **LOC105375921** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.907 |
| 105375922 | XR_929097 | **LOC105375922** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375924 | XR_002956718,XR_ | **LOC105375924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.891 |
| 105375925 | XR_001745977,XR_ | **LOC105375925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375926 | XR_929106 | **LOC105375926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375928 | XR_001745981,XR_ | **LOC105375928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.189 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105375929 | XR_001745982,XR_ | **LINC02839** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375930 | XR_929113 | **LOC105375930** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375931 | XR_929115 | **LOC105375931** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375932 | XR_001745724 | **LOC105375932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.924 |
| 105375933 | XR_929117,XR_929 | **LOC105375933** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 105375935 | XR_929123,XR_929 | **LOC105375935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375936 | XR_929125,XR_929 | **LOC105375936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375937 | XR_929129 | **LOC105375937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375938 | NR_168430,NR_168 | **LOC105375938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375942 | XR_929381 | **LOC105375942** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.927 |
| 105375943 | XR_001746594,XR_ | **LOC105375943** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375945 | XR_929400,XR_929 | **LOC105375945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375947 | XR_929407 | **LOC105375947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375949 | XR_001746561,XR_ | **LOC105375949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375951 | XR_001746599 | **LOC105375951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375952 | XR_929422 | **LOC105375952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375953 | XR_001746598 | **LOC105375953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375955 | XR_929426,XR_929 | **LOC105375955** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375956 | XR_929433 | **LOC105375956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375957 | XR_929435,XR_929 | **LOC105375957** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.039 |
| 105375959 | XR_929439 | **LOC105375959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375962 | XR_929442 | **LOC105375962** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375964 | XR_929445 | **LOC105375964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375968 | XR_001746562 | **LINC02851** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375969 | XR_001746615,XR_ | **LOC105375969** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.915 |
| 105375970 | XR_929460 | **LOC105375970** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375971 | XR_929462,XR_929 | **LOC105375971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375972 | NR_135135 | **LOC105375972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375974 | XR_001746618,XR_ | **LOC105375974** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375975 | XM_011518088,XR_ | **LOC105375975** | histone-lysine N-methyltr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105375976 | XR_929481,XR_929 | **LOC105375976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375977 | XR_929484 | **LOC105375977** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375979 | XR_001746623 | **LOC105375979** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375980 | XR_929488,XR_929 | **LOC105375980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375981 | XR_001746624,XR_ | **LOC105375981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375983 | XR_001746628,XR_ | **LOC105375983** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375985 | XR_001746433 | **LOC105375985** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375987 | XR_929509 | **LOC105375987** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375988 | XR_929510,XR_929 | **LOC105375988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375989 | XR_001746633,XR_ | **LOC105375989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375990 | XR_929515 | **LOC105375990** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375992 | XR_929518,XR_929 | **LOC105375992** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375993 | XR_929520,XR_929 | **LOC105375993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375994 | XR_929522,XR_929 | **LOC105375994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375996 | XR_929525 | **LOC105375996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375997 | XR_929526 | **LOC105375997** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105375999 | XR_001746565,XR_ | **LOC105375999** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376000 | XR_001746638 | **LOC105376000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376001 | XR_929531 | **LOC105376001** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376002 | XR_001746640 | **LOC105376002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376003 | XR_929533 | **LOC105376003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376004 | XR_001746641,XR_ | **LOC105376004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376005 | XR_929535 | **LOC105376005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376009 | XR_929539 | **LOC105376009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376010 | XR_001746642,XR_ | **LOC105376010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376011 | XR_001746643,XR_ | **LOC105376011** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376013 | XR_929549 | **LOC105376013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376015 | XR_929553 | **LOC105376015** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376016 | XR_929554,XR_929 | **LOC105376016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376017 | XR_929556,XR_929 | **LOC105376017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376018 | XR_929561 | **LOC105376018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376020 | XR_929567 | **LOC105376020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376023 | XR_001746649,XR_ | **LOC105376023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376025 | XR_929578,XR_929 | **LOC105376025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376026 | XR_929580 | **LOC105376026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376030 | XR_001746662,XR_ | **LOC105376030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376031 | XR_929590 | **LOC105376031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376032 | XR_001746663,XR_ | **LOC105376032** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376033 | XR_001746665 | **LOC105376033** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.048 |
| 105376034 | XR_929594 | **LOC105376034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 105376035 | XR_002956874 | **LOC105376035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376036 | XR_002956875 | **LINC01627** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376037 | XR_929599 | **LOC105376037** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.034 |
| 105376039 | XR_929601,XR_929 | **LOC105376039** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376040 | XR_929605 | **LOC105376040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376041 | XR_001746671,XR_ | **LOC105376041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376042 | XR_929607 | **LOC105376042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376043 | XR_929608 | **LOC105376043** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376044 | XR_929609 | **LOC105376044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376045 | XR_929611 | **LOC105376045** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376046 | XR_929612 | **LOC105376046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376050 | XR_001746434,XR_ | **LOC105376050** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.013 |
| 105376057 | gene-LOC10537605 | **LOC105376057** | protein FRG1B-like | pseudogene | 2 | 3 | 3 | 4 | 1.551 |
| 105376058 | XR_929659 | **LOC105376058** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.090 |
| 105376060 | gene-LOC10537606 | **LOC105376060** | . | pseudogene | 2 | 2 | 3 | 3 | 0.973 |
| 105376063 | XR_929667,XR_929 | **LOC105376063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 105376064 | NR_135136 | **FAM242F** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376065 | XR_002956843,XR_ | **LOC105376065** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376067 | XR_929701 | **LOC105376067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376070 | XR_929898,XR_929 | **LOC105376070** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.958 |
| 105376071 | XR_929902 | **LOC105376071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376072 | XR_001746701 | **TMEM252-DT** | TMEM252 divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376074 | XR_929905 | **LOC105376074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376076 | XR_929908,XR_929 | **LOC105376076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.731 |
| 105376078 | XR_001746702,XR_ | **LOC105376078** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376079 | XR_001746717,XR_ | **LOC105376079** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376080 | XR_929925 | **LOC105376080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376081 | XR_929926,XR_929 | **LOC105376081** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376082 | XR_929929,XR_929 | **LOC105376082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376083 | XR_001746729 | **LOC105376083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376084 | XR_929939,XR_929 | **LOC105376084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376085 | XR_929943 | **LOC105376085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376086 | XR_929944,XR_929 | **LOC105376086** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376087 | XR_929947 | **LOC105376087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376088 | XR_929948 | **LOC105376088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376090 | XR_001746731,XR_ | **LOC105376090** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105376091 | XR_929952 | **LOC105376091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376093 | XR_001746734,XR_ | **LOC105376093** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 105376095 | XR_001746752,XR_ | **LOC105376095** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105376096 | XR_929973 | **LOC105376096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376097 | XR_929974,XR_929 | **LOC105376097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376099 | XR_929981 | **LOC105376099** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376100 | XR_929983,XR_929 | **LOC105376100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376101 | XR_001746762,XR_ | **LOC105376101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376103 | XR_929989 | **LOC105376103** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376105 | XR_929991 | **LOC105376105** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376106 | XR_929992,XR_929 | **LOC105376106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376107 | XR_002956913,XR_ | **LOC105376107** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376108 | XR_001746768,XR_ | **LOC105376108** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376110 | XR_001746779,XR_ | **LOC105376110** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376114 | NR_135839,NR_135 | **LOC105376114** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.907 |
| 105376116 | XR_001746802,XR_ | **LOC105376116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376118 | XR_001746806,XR_ | **LOC105376118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376119 | XR_930051 | **LOC105376119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376121 | XR_001746810 | **LOC105376121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376123 | XR_930068 | **LOC105376123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105376124 | XR_930069,XR_930 | **LINC02834** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376126 | XR_001746811,XR_ | **LOC105376126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376127 | XR_930076,XR_930 | **LOC105376127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376131 | XR_930088,XR_930 | **LOC105376131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376134 | XR_930097 | **LOC105376134** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376135 | XR_930098 | **LOC105376135** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376136 | XR_930100,XR_930 | **LOC105376136** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.576 |
| 105376137 | XR_930102 | **LOC105376137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 105376139 | XR_001746825,XR_ | **LOC105376139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 105376140 | XR_001746827,XR_ | **LOC105376140** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.868 |
| 105376142 | XR_930109 | **LOC105376142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376143 | XR_001746829,XR_ | **LOC105376143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376144 | XR_930112 | **LOC105376144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376146 | XR_930122 | **LOC105376146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.066 |
| 105376147 | XR_930123 | **LOC105376147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376148 | XR_930124 | **LOC105376148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376154 | XR_001746842,XR_ | **LOC105376154** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.069 |
| 105376155 | XR_930133 | **LOC105376155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376156 | XR_001746848,XR_ | **LOC105376156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376157 | XR_930138,XR_930 | **LOC105376157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376158 | XR_930142 | **LOC105376158** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376159 | XR_930143 | **LOC105376159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376161 | XR_002956922,XR_ | **LOC105376161** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376162 | NR_146524 | **HSD17B3-AS1** | HSD17B3 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376163 | XR_001746853,XR_ | **LOC105376163** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376166 | XR_930154 | **LOC105376166** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376167 | XR_930156 | **LOC105376167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376168 | XR_930157 | **LOC105376168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376171 | XR_001746856,XR_ | **LOC105376171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376174 | XR_930169 | **LOC105376174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376176 | XR_001746547 | **LOC105376176** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376177 | XR_930174,XR_930 | **LOC105376177** | uncharacterized LOC105 | lncRNA | 9 | 6 | 10 | 7 | 0.733 |
| 105376179 | XR_001746575,XR_ | **LOC105376179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376180 | XR_930180 | **LOC105376180** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376181 | XR_001746576 | **LOC105376181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376182 | XR_001746858,XR_ | **LOC105376182** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376183 | XR_001746859,XR_ | **LOC105376183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376184 | XR_001746862,XR_ | **LOC105376184** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376186 | XR_001746863,XR_ | **LOC105376186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 105376187 | XR_930187 | **LOC105376187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376188 | XR_930188,XR_930 | **LOC105376188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376190 | XR_930191 | **LOC105376190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376191 | XR_930192 | **LOC105376191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376192 | XR_930193 | **LOC105376192** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376193 | XR_930194,XR_930 | **LOC105376193** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376194 | NR_135141 | **LOC105376194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376195 | XR_001746864,XR_ | **LOC105376195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376196 | XR_930204 | **LOC105376196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376197 | XR_930205 | **LOC105376197** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376199 | XR_930209,XR_930 | **LOC105376199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.232 |
| 105376201 | XR_930213 | **LOC105376201** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376204 | XM_017015409 | **LOC105376204** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376205 | XR_001746877,XR_ | **LOC105376205** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376206 | XR_930223,XR_930 | **LOC105376206** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376207 | XR_930225,XR_930 | **LOC105376207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376208 | XR_930228,XR_930 | **LOC105376208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376209 | XR_930230,XR_930 | **LOC105376209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376211 | XR_930234 | **LOC105376211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376212 | XR_001746880,XR_ | **LOC105376212** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376213 | XR_930237 | **LOC105376213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376214 | XR_001746881,XR_ | **LOC105376214** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376216 | XR_001746883,XR_ | **LOC105376216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376217 | XR_001746889 | **LOC105376217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376218 | XR_001746891 | **LOC105376218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376219 | XR_001746893,XR_ | **LOC105376219** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376220 | XR_930251 | **LOC105376220** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.999 |
| 105376222 | XR_001746902,XR_ | **LOC105376222** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376223 | XR_930254 | **LOC105376223** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376224 | XR_001746906,XR_ | **LOC105376224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376225 | XR_930256 | **LOC105376225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376228 | XR_930259 | **LOC105376228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376229 | XR_930260 | **LOC105376229** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376230 | NM_001354645 | **TEX53** | testis expressed 53 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376231 | XR_001746577,XR_ | **LOC105376231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.088 |
| 105376232 | XR_930264,XR_930 | **LOC105376232** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376233 | XR_930267 | **LOC105376233** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376234 | XR_930268,XR_930 | **LOC105376234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376235 | XR_930270 | **LOC105376235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376236 | XR_001746909,XR_ | **LOC105376236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376237 | XR_001746553,XR_ | **LOC105376237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376238 | XR_930275 | **LOC105376238** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376239 | XR_001746551,XR_ | **LOC105376239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376240 | XR_930277 | **LOC105376240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376241 | XR_930279 | **LOC105376241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376242 | XR_001746910,XR_ | **LOC105376242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376243 | XR_001746917 | **LOC105376243** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376244 | XR_001746915,XR_ | **LOC105376244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376246 | XR_930291 | **LOC105376246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376247 | XR_930293 | **LOC105376247** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376248 | XR_930294 | **LOC105376248** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376249 | XR_930297 | **LOC105376249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376250 | XR_930304,XR_930 | **LOC105376250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376253 | XR_002956934 | **LOC105376253** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.120 |
| 105376257 | XR_930314 | **LOC105376257** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376265 | XR_930331 | **LOC105376265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376266 | XR_930332 | **LOC105376266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 105376267 | XR_930333 | **LOC105376267** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376269 | XR_930335 | **LOC105376269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376270 | XR_930341,XR_930 | **LOC105376270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376271 | NR_135145 | **LOC105376271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376272 | XR_930349,XR_930 | **LOC105376272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376273 | XR_930355 | **LOC105376273** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376274 | XR_001746581 | **LOC105376274** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376275 | XR_930357 | **LOC105376275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376276 | XR_930358 | **LOC105376276** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376277 | XR_930359,XR_930 | **LOC105376277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376278 | XR_001746937,XR_ | **LOC105376278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376279 | XR_930370 | **LOC105376279** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376281 | XR_930372 | **LOC105376281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376286 | XR_930377 | **LOC105376286** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.522 |
| 105376287 | XR_930378 | **LOC105376287** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.927 |
| 105376289 | XR_930386 | **LOC105376289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376290 | XR_930387 | **LOC105376290** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376291 | XR_002956937,XR_ | **LOC105376291** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.885 |
| 105376292 | XR_930390,XR_930 | **LOC105376292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376294 | XR_930393 | **LOC105376294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376297 | XR_930398 | **LOC105376297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376299 | XR_001746959,XR_ | **LOC105376299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376300 | XR_930401 | **LOC105376300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376301 | XR_930402 | **LOC105376301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376302 | XR_930403 | **LOC105376302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376304 | XR_930405 | **LOC105376304** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376306 | NR_135119 | **LOC105376306** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.913 |
| 105376308 | XR_930410 | **LOC105376308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376310 | NR_146518 | **LINC02247** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376311 | XR_001746964 | **LOC105376311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105376313 | XR_930421 | **LOC105376313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376314 | XR_001746965,XR_ | **LOC105376314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376316 | XR_930428 | **LOC105376316** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376317 | XR_930429,XR_930 | **LOC105376317** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376318 | XR_930431 | **LOC105376318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376322 | XR_930437 | **LOC105376322** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376323 | XR_930439 | **LINC02846** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.077 |
| 105376325 | XR_930446 | **LOC105376325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376326 | XR_930448 | **LOC105376326** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.523 |
| 105376327 | XR_930455 | **LOC105376327** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376328 | XR_930457 | **LOC105376328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376331 | NR_132977,NR_132 | **LOC105376331** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376332 | XR_001746985,XR_ | **LOC105376332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376333 | XR_930463 | **LOC105376333** | uncharacterized LOC105 | transcribed_pseu | 0 | 1 | 1 | 2 | 1.065 |
| 105376334 | gene-LOC10537633 | **LOC105376334** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105376335 | XM_011519284 | **LOC105376335** | serine/arginine repetitive | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376340 | XR_930527 | **LOC105376340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376341 | XM_011519766 | **LOC105376341** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376342 | XR_930528 | **LOC105376342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376344 | XR_930532,XR_930 | **LOC105376344** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376345 | XR_930536,XR_930 | **LOC105376345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376346 | XR_930538,XR_930 | **LOC105376346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376348 | XR_930542,XR_930 | **LINC02662** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376349 | XR_930550,XR_930 | **LOC105376349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376350 | XR_930552,XR_930 | **LOC105376350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376351 | NR_136146 | **LINC02645** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376352 | XR_001747271,XR_ | **LOC105376352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376353 | NR_164118,NR_164 | **LOC105376353** | mucin-5AC-like | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376354 | XR_001747317,XR_ | **LINC02668** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376356 | XR_930566 | **LOC105376356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376357 | XR_930567 | **LOC105376357** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376358 | XR_930568 | **LOC105376358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376360 | NR_131187 | **LOC105376360** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376361 | XR_930577,XR_930 | **LOC105376361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.177 |
| 105376363 | XR_001747331,XR_ | **LOC105376363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 105376364 | XR_930580 | **LOC105376364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376365 | NR_134490 | **LINC02639** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376367 | XR_001747333,XR_ | **LOC105376367** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.931 |
| 105376368 | XR_930586,XR_930 | **LOC105376368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376369 | XR_930588 | **LOC105376369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376370 | XR_001747272,XR_ | **LOC105376370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376371 | XR_930590 | **LOC105376371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376372 | XR_001747337,XR_ | **LOC105376372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376373 | XR_001747338,XR_ | **LOC105376373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376374 | XR_930598 | **LOC105376374** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376375 | XR_930599 | **LOC105376375** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376380 | XR_001747343,XR_ | **LOC105376380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376381 | XR_001747274 | **LOC105376381** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376382 | NR_134491 | **LASTR** | lncRNA associated with S | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376383 | XR_001747275 | **LINC02678** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376384 | XR_001747345,XR_ | **LOC105376384** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.208 |
| 105376386 | XR_930622 | **LINC02665** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376387 | XR_001747351,XR_ | **LOC105376387** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 105376388 | XR_001747355,XR_ | **LINC02642** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.816 |
| 105376390 | XR_930631 | **LOC105376390** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376391 | XR_930632 | **LOC105376391** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376392 | XR_001747356,XR_ | **LOC105376392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376394 | XR_930635 | **LOC105376394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376395 | XR_930636 | **LOC105376395** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.936 |
| 105376396 | XR_930637 | **LOC105376396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376397 | XR_930638 | **LOC105376397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376398 | NR_134492 | **LOC105376398** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376399 | XR_001747362 | **LOC105376399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376400 | XR_001747277 | **LOC105376400** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376402 | XR_001747363,XR_ | **LINC02663** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376403 | XR_930647 | **LOC105376403** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376405 | XR_001747679 | **LOC105376405** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376409 | XR_930656 | **LOC105376409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376410 | XR_001747365 | **LOC105376410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376411 | XR_930658 | **LOC105376411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376412 | XR_002957063,XR_ | **LOC105376412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376413 | XR_930662 | **LOC105376413** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.962 |
| 105376415 | XR_930664 | **LOC105376415** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376416 | XR_930665,XR_930 | **LOC105376416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376418 | XR_001747367 | **LOC105376418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376419 | XR_930671 | **LOC105376419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376420 | XR_930672 | **LOC105376420** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376421 | XR_930674 | **LOC105376421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376422 | XR_930675 | **LOC105376422** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376425 | XR_001747373,XR_ | **LOC105376425** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376426 | XR_001747369,XR_ | **LOC105376426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376428 | XR_930690 | **LOC105376428** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376429 | XR_930691 | **LOC105376429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376431 | XR_930693 | **LOC105376431** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376432 | NR_144469 | **DCLRE1CP1** | DNA cross-link repair 1C | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105376433 | XR_930696 | **LOC105376433** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376434 | XR_001747378,XR_ | **LOC105376434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376435 | XR_930708 | **LOC105376435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376436 | XR_930709,XR_930 | **LOC105376436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376437 | XR_930714 | **LOC105376437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376440 | XR_930720,XR_930 | **LOC105376440** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376441 | XR_930727 | **LOC105376441** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376442 | XR_001747381,XR_ | **LOC105376442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376444 | NR_155751 | **LINC02643** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376445 | XR_930742 | **LOC105376445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376447 | XR_001747389,XR_ | **LOC105376447** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 105376448 | XR_930746 | **LOC105376448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376449 | XR_001747392,XR_ | **LOC105376449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376450 | XR_930748 | **LOC105376450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376451 | XR_930749 | **LOC105376451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376453 | NR_155752 | **LOC105376453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376454 | XR_930753,XR_930 | **LOC105376454** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376455 | XR_930755 | **LOC105376455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376456 | XR_930757 | **LOC105376456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376460 | XR_930761 | **LOC105376460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376461 | XR_930763,XR_930 | **LOC105376461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376462 | XR_930765 | **SELENOOLP** | selenoprotein O like, pse | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105376463 | XR_001747398,XR_ | **LINC02680** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.130 |
| 105376466 | XR_930770,XR_930 | **MPP7-DT** | MPP7 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376467 | XR_930774,XR_930 | **LOC105376467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376468 | NR_134496 | **LINC02652** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376470 | XR_001747281,XR_ | **LOC105376470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376471 | XR_930784 | **LOC105376471** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376472 | XR_930785 | **LOC105376472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376473 | XR_930786 | **LOC105376473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376474 | XR_930787 | **LOC105376474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376475 | XR_930788 | **LOC105376475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376476 | XR_930789,XR_930 | **LOC105376476** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376477 | XR_930791 | **LOC105376477** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376478 | XR_001747408,XR_ | **LOC105376478** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376479 | XR_930794 | **LOC105376479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376480 | NR_134497 | **LINC02644** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376481 | XR_001747409,XR_ | **LOC105376481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376482 | XR_001747412,XR_ | **LOC105376482** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376483 | XR_001747411,XR_ | **LOC105376483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376484 | XR_930803,XR_930 | **LOC105376484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105376485 | XR_930806 | **LOC105376485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376486 | XR_930807 | **LOC105376486** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.078 |
| 105376489 | XR_930812,XR_930 | **LOC105376489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376490 | XR_002957052 | **LINC02628** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376491 | XR_001747418,XR_ | **LINC02635** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376493 | XR_930818,XR_930 | **LINC02634** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376494 | XR_930820 | **LOC105376494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376495 | XR_930822 | **LINC02630** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376496 | XR_930823,XR_930 | **LOC105376496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376497 | XR_930827 | **LOC105376497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376498 | XR_930828,XR_930 | **LOC105376498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376499 | XR_001747428,XR_ | **ZNF25-DT** | ZNF25 divergent transcri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376500 | XR_930831,XR_930 | **LOC105376500** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376504 | XR_930956 | **LOC105376504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.066 |
| 105376505 | XR_930957 | **LOC105376505** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.950 |
| 105376506 | XR_001748088,XR_ | **LOC105376506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376509 | XR_930962 | **LOC105376509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376512 | XR_930968 | **LOC105376512** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105376513 | XR_001748092,XR_ | **LINC02689** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376514 | XR_001748093,XR_ | **LOC105376514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376517 | XR_002957212 | **LOC105376517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.851 |
| 105376520 | XR_930983 | **LOC105376520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.131 |
| 105376525 | XM_011520530 | **LOC105376525** | ectonucleotide pyrophos | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376526 | XM_011520532 | **LOC105376526** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376527 | XR_930988 | **STIM1-AS1** | STIM1 antisense RNA 1 | lncRNA | 2 | 1 | 3 | 2 | 0.789 |
| 105376528 | XR_930989,XR_930 | **LOC105376528** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376533 | XR_001748113,XR_ | **LOC105376533** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376535 | XR_001748115 | **LOC105376535** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 105376536 | XR_001748117,XR_ | **LOC105376536** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376539 | XR_931017,XR_931 | **LOC105376539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376541 | XR_001748119,XR_ | **LOC105376541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376542 | XR_001748121,XR_ | **LOC105376542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 105376544 | XR_001748472 | **LOC105376544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376547 | XR_001748123 | **LOC105376547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376548 | XR_001748126,XR_ | **LOC105376548** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376550 | XR_001748131,XR_ | **LINC02752** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376553 | XR_931034 | **LOC105376553** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376554 | NR_135109 | **LINC02547** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376556 | XR_931038,XR_931 | **LOC105376556** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376557 | XR_001748137,XR_ | **RASSF10-DT** | RASSF10 divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376558 | XR_931043 | **LOC105376558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376561 | NR_149109 | **LINC02545** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376562 | NR_149108 | **LINC02548** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376567 | XR_001748140,XR_ | **LOC105376567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376568 | XR_931072,XR_931 | **LOC105376568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376569 | XR_001748142,XR_ | **LINC02751** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376570 | XR_931078,XR_931 | **LINC02682** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376571 | XR_001748473,XR_ | **LOC105376571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376572 | XR_001748474 | **LOC105376572** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376576 | XR_931094 | **LOC105376576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376577 | XR_931096 | **LOC105376577** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.890 |
| 105376578 | XR_931097 | **LOC105376578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376579 | XR_001748146,XR_ | **LOC105376579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376580 | XR_001748148,XR_ | **CSRP3-AS1** | CSRP3 and E2F8 antise | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 105376583 | XR_931103 | **LOC105376583** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376584 | XR_931105 | **LOC105376584** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376585 | XR_931106 | **LOC105376585** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376586 | XR_931107,XR_931 | **LOC105376586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376587 | XR_931117 | **LOC105376587** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376588 | XR_931118 | **LOC105376588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376589 | XR_931119 | **LOC105376589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376591 | XR_001748154,XR_ | **LOC105376591** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376592 | XR_001748156 | **LINC02718** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376593 | XR_931128,XR_931 | **LINC02726** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376594 | XR_002957216 | **LINC02686** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376595 | XR_931131 | **LOC105376595** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376596 | XR_931132,XR_931 | **LINC02699** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376598 | XR_931138 | **LOC105376598** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376599 | NR_132968 | **ANO3-AS1** | ANO3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376600 | XR_931140,XR_931 | **LOC105376600** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376601 | XR_931142 | **LOC105376601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376602 | XR_002957243 | **LINC02758** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376603 | XR_001748158,XR_ | **LINC02742** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376604 | XR_931146,XR_931 | **LOC105376604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376605 | XR_931150 | **LINC02755** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376606 | NR_149106,NR_149 | **LINC02546** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376607 | XR_931152 | **LOC105376607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.115 |
| 105376609 | XR_001748163,XR_ | **MPPED2-AS1** | MPPED2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376611 | XR_001748486,XR_ | **LOC105376611** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376613 | XR_931164,XR_931 | **LOC105376613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376615 | XR_001748166,XR_ | **LOC105376615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376617 | XR_001748167,XR_ | **LOC105376617** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376619 | XR_001748172,XR_ | **LINC02722** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376620 | XR_931174,XR_931 | **LINC02721** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376621 | XR_931176 | **LOC105376621** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376622 | XR_931180 | **LOC105376622** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376623 | XR_931181 | **LINC02707** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376624 | XR_001748177,XR_ | **LOC105376624** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376625 | XR_931187 | **LOC105376625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376626 | XR_001748179,XR_ | **LOC105376626** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376627 | XR_001748184,XR_ | **LOC105376627** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376631 | XR_931199 | **LOC105376631** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376632 | XR_001748060,XR_ | **LOC105376632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376633 | NR_135110 | **LINC02760** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376634 | XR_931202 | **LOC105376634** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376635 | XR_931203,XR_931 | **LOC105376635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376636 | XR_931210 | **LOC105376636** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376637 | XR_001748194,XR_ | **LOC105376637** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376639 | XR_931213,XR_931 | **LOC105376639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376640 | XR_001748196,XR_ | **LINC02741** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376641 | XR_931220 | **LOC105376641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376642 | XR_931222 | **LOC105376642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376644 | XR_001748200,XR_ | **LOC105376644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376645 | XR_931229 | **LOC105376645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376646 | XR_001748201,XR_ | **LOC105376646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376647 | XR_001748066,XR_ | **LINC02704** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376649 | XR_931236 | **LOC105376649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376650 | XR_931237 | **LOC105376650** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376652 | XR_931239,XR_931 | **LOC105376652** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 105376654 | XR_001748204,XR_ | **LOC105376654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376655 | XR_931246 | **LOC105376655** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376656 | XR_931247 | **LOC105376656** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376658 | XR_931249 | **LINC02690** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376661 | XR_931252 | **LOC105376661** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376662 | XR_931253,XR_931 | **LINC02710** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.812 |
| 105376670 | gene-LOC10537667 | **LOC105376670** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105376671 | NR_131169,NR_13 | **LGR4-AS1** | LGR4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376672 | NR_147024 | **LINC01345** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376673 | XR_001737871,XR_ | **LINC02780** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376674 | XR_946894,XR_946 | **LOC105376674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376675 | XR_931358 | **LOC105376675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.907 |
| 105376678 | XM_011520903 | **LOC105376678** | ovostatin-like | protein_coding | 1 | 0 | 2 | 1 | 0.596 |
| 105376679 | NR_147025 | **LINC01646** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376680 | XR_946900,XR_946 | **LINC02781** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376681 | XR_001737776,XR_ | **LINC02782** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376682 | XR_946906 | **LOC105376682** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|
| 105376686 | XR_946907,XR_946 | **LOC105376686** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376687 | XR_946912 | **LOC105376687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376689 | XR_001737883,XR_ | **LOC105376689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376691 | XR_001737887 | **LOC105376691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376692 | XR_946934 | **LOC105376692** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376695 | XR_946937 | **LOC105376695** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376698 | XR_931974 | **LOC105376698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376704 | XR_001751765,XR_ | **LOC105376704** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.761 |
| 105376707 | XR_932062 | **LOC105376707** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 105376709 | XR_932069 | **LOC105376709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376710 | XR_932073 | **LOC105376710** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.819 |
| 105376712 | XR_946951 | **LOC105376712** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.477 |
| 105376713 | XR_001751508 | **LOC105376713** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376714 | XM_017022774 | **LOC105376714** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376717 | XR_946952 | **LOC105376717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376718 | XR_932381 | **LOC105376718** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376722 | XM_017022777 | **LOC105376722** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376724 | XR_932564 | **LOC105376724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376725 | XR_946953 | **LOC105376725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376730 | XR_932746 | **LOC105376730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376731 | NM_001321990,XM | **LOC105376731** | taste receptor cell protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376733 | XR_946954 | **LOC105376733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376735 | XR_001737778 | **LOC105376735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376736 | NR_135061,NR_13 | **EXOSC10-AS1** | EXOSC10 antisense RN/ | lncRNA | 1 | 2 | 2 | 3 | 1.475 |
| 105376737 | XR_946957 | **LOC105376737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376738 | XR_001739780 | **LOC105376738** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376739 | XR_946958 | **LOC105376739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376740 | XR_001737779,XR_ | **LOC105376740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376744 | XR_001737780,XR_ | **LINC02766** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 105376745 | NR_146629 | **LINC01784** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376747 | XM_017023973,XM | **LOC105376747** | collagen alpha-3(IX) cha | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376748 | XR_001739154,XR_ | **LOC105376748** | uncharacterized LOC105 | lncRNA | 7 | 7 | 8 | 8 | 0.940 |
| 105376749 | XR_933118,XR_933 | **LOC105376749** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376751 | XR_933149 | **LOC105376751** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376752 | gene-NPIPA9 | **NPIPA9** | nuclear pore complex int | pseudogene | 2 | 1 | 3 | 2 | 0.867 |
| 105376753 | XR_933151 | **LOC105376753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376754 | XR_001739831 | **LOC105376754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376755 | XR_001739834,XR_ | **LOC105376755** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376756 | XR_946969 | **LOC105376756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376759 | XR_001737612,XR_ | **LOC105376759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376762 | NR_149058 | **KAZN-AS1** | KAZN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376767 | XR_002958256 | **LOC105376767** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376772 | NR_135170 | **LOC105376772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376774 | XR_933751 | **LOC105376774** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376775 | XR_933752,XR_933 | **LOC105376775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376778 | XR_933855 | **LOC105376778** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376781 | XR_001752320,XR_ | **LOC105376781** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.850 |
| 105376786 | XR_933914 | **LOC105376786** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376787 | XR_001739928 | **LOC105376787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376789 | XR_001753043,XR_ | **LOC105376789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376791 | XM_011523609,XM_ | **LOC105376791** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376794 | XR_001737914 | **LOC105376794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.153 |
| 105376799 | XR_934202 | **LOC105376799** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376805 | NR_135056,NR_13 | **LOC105376805** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376806 | XR_947003 | **LOC105376806** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376808 | XR_947005 | **LOC105376808** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376809 | XR_001737785,XR_ | **LOC105376809** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376810 | XR_001739176 | **LOC105376810** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376812 | XR_947008 | **LOC105376812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376814 | XR_001737915,XR_ | **IGSF21-AS1** | IGSF21 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376815 | XR_001737918,XR_ | **LOC105376815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376817 | XR_947017 | **LOC105376817** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376818 | XR_947018 | **LOC105376818** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376819 | XR_001737920,XR_ | **LOC105376819** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376823 | XR_947027,XR_947 | **LOC105376823** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376825 | XR_947031 | **LOC105376825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376826 | XR_947032 | **LOC105376826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376827 | NR_147205 | **LINC01757** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376828 | XR_001737786,XR_ | **LOC105376828** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376829 | XR_001737922,XR_ | **LOC105376829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376830 | XR_001737921,XR_ | **LOC105376830** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376832 | XR_947043,XR_947 | **LOC105376832** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376834 | XR_947046 | **LINC02596** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376839 | XR_002958154 | **LOC105376839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376843 | NR_132278 | **SNHG25** | small nucleolar RNA hos | lncRNA | 6 | 11 | 7 | 12 | 1.669 |
| 105376844 | XR_001752972,XR_ | **LOC105376844** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.739 |
| 105376845 | XR_001737923,XR_ | **LOC105376845** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.993 |
| 105376850 | XR_947057 | **LOC105376850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 105376854 | NR_136505 | **LINC01925** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376856 | XR_947058 | **LOC105376856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376859 | XR_947064,XR_947 | **LOC105376859** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.146 |
| 105376860 | XR_947067 | **LOC105376860** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376861 | XR_947068 | **LOC105376861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376863 | XR_001737790,XR_ | **LOC105376863** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376864 | XR_001737928 | **LOC105376864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376866 | XR_935275 | **LOC105376866** | uncharacterized LOC105 | lncRNA | 1 | 3 | 2 | 4 | 1.615 |
| 105376871 | XR_001737932,XR_ | **GRHL3-AS1** | GRHL3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376872 | XR_001753496,XR_ | **LOC105376872** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376873 | XR_935614 | **LOC105376873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376874 | XR_935633 | **LOC105376874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376875 | XM_011526290,XM_ | **LOC105376875** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105376876 | XR_947082 | **LOC105376876** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376878 | XR_001737933,XR_ | **RUNX3-AS1** | RUNX3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 105376879 | XR_001737943,XR_ | **LINC02793** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.910 |
| 105376882 | XR_947099 | **LOC105376882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376885 | XR_947102 | **LOC105376885** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376886 | XR_002958284 | **LOC105376886** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376888 | XR_001737949,XR_ | **LOC105376888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376890 | XR_947117 | **LOC105376890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376892 | XR_947118 | **LOC105376892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376899 | XR_935913 | **LOC105376899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376901 | XR_936000 | **LOC105376901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376910 | XR_001737948 | **LOC105376910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376912 | XR_936215 | **LOC105376912** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376914 | XR_936311 | **LOC105376914** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376917 | NR_160727,NR_160 | **LOC105376917** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376921 | XR_940533 | **LOC105376921** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376922 | XR_940538 | **LOC105376922** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376923 | XR_940541 | **LOC105376923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376924 | XR_940543 | **LOC105376924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376926 | XR_001740398,XR_ | **LOC105376926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376933 | XR_001740414 | **LOC105376933** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376934 | XR_940562,XR_940 | **LOC105376934** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.278 |
| 105376936 | XR_940567 | **LOC105376936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376938 | XR_940570 | **LOC105376938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376939 | XR_940571 | **LOC105376939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376940 | XR_940572 | **LOC105376940** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376941 | XR_001740586,XR_ | **LOC105376941** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376942 | XR_940578,XR_940 | **LOC105376942** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376943 | XR_940580 | **LOC105376943** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376944 | XR_001740415,XR_ | **LOC105376944** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376945 | XR_940582 | **LOC105376945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376946 | NR_131906 | **GRM7-AS2** | GRM7 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376949 | XR_940586 | **LOC105376949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376950 | XR_940587 | **LOC105376950** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376951 | XR_001740599,XR_ | **LOC105376951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105376952 | XR_940594 | **LOC105376952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.093 |
| 105376955 | NR_136189 | **LINC02022** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376956 | XR_940599,XR_940 | **LOC105376956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376957 | XR_001740600,XR_ | **LOC105376957** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376958 | XR_940606 | **LOC105376958** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.925 |
| 105376959 | XR_940608 | **LOC105376959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.017 |
| 105376960 | XR_001740604,XR_ | **LOC105376960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376963 | XR_940614 | **LOC105376963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376964 | XR_940615 | **LOC105376964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376972 | XR_002959615,XR | **LOC105376972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376975 | NR_135536 | **LOC105376975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376976 | XR_001740423,XR_ | **LOC105376976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376978 | XR_001740609,XR_ | **LOC105376978** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376980 | XR_936786 | **LOC105376980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376981 | XR_940639 | **LOC105376981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376982 | XR_001740617,XR_ | **LOC105376982** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.065 |
| 105376984 | XR_940642,XR_940 | **LOC105376984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376985 | XR_001754672 | **LOC105376985** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376987 | XR_001740620,XR_ | **LOC105376987** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376988 | XR_940646 | **LOC105376988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376989 | XR_936891 | **LOC105376989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376991 | XR_940649 | **LOC105376991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376992 | NR_147083 | **LINC01742** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376993 | XR_940651,XR_940 | **LOC105376993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376995 | XR_936978,XR_936 | **LOC105376995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.195 |
| 105376996 | XR_001754707 | **LOC105376996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.166 |
| 105376997 | NR_134933 | **RARB-AS1** | RARB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105376998 | XR_940657 | **LOC105376998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377000 | XR_940660,XR_940 | **LOC105377000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377001 | XR_940662 | **LOC105377001** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377002 | XR_001740551,XR_ | **LOC105377002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377003 | XR_940664 | **LOC105377003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377004 | XR_940665 | **LOC105377004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377005 | XR_001740552 | **LOC105377005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377006 | XR_001740625 | **LINC02084** | long intergenic non-prote | lncRNA | 9 | 10 | 10 | 11 | 1.127 |
| 105377007 | NR_146630 | **LINC01980** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377008 | XR_940674 | **LOC105377008** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377009 | XR_001740425,XR_ | **LOC105377009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377013 | XR_940683 | **LOC105377013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377015 | XR_940691 | **LOC105377015** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377016 | XR_001740630,XR_ | **LOC105377016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 105377017 | XR_001740632 | **LOC105377017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377018 | XR_940694 | **LOC105377018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377019 | XR_001740554 | **LOC105377019** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377021 | XM_011534334 | **LOC105377021** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377022 | XM_017007616 | **LOC105377022** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377023 | XR_940698,XR_940 | **LOC105377023** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.841 |
| 105377024 | XR_940701 | **LOC105377024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377029 | XR_001740654,XR_ | **LOC105377029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377030 | XR_940722 | **LOC105377030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377031 | NR_147141 | **LINC02033** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377033 | XR_001740428,XR_ | **LOC105377033** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 105377034 | XR_940734 | **LOC105377034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377035 | XR_940740 | **LOC105377035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377037 | XR_001740661,XR_ | **LOC105377037** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377038 | XR_940748 | **LOC105377038** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377039 | XR_940749,XR_940 | **LOC105377039** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377043 | XR_001740664,XR_ | **LOC105377043** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377045 | XR_940769 | **LOC105377045** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377046 | XR_001740666,XR_ | **LOC105377046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 105377048 | XR_940772,XR_940 | **LOC105377048** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.909 |
| 105377051 | XR_940777 | **LOC105377051** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377052 | XR_940778 | **LOC105377052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377054 | XR_940780 | **LOC105377054** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377055 | XR_940782,XR_940 | **LOC105377055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377056 | XR_940786,XR_940 | **LOC105377056** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377061 | XR_001740678,XR_ | **LOC105377061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377062 | XR_940797,XR_940 | **LOC105377062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377063 | XR_940799,XR_940 | **LOC105377063** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.939 |
| 105377067 | XR_940804,XR_940 | **LOC105377067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377068 | NR_151704 | **LINC02009** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377073 | XR_940821 | **LOC105377073** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 105377074 | XR_940822 | **LOC105377074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377077 | XR_940825 | **LOC105377077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377082 | XR_940832 | **LOC105377082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377083 | XR_940833 | **LOC105377083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377085 | XR_940835,XR_940 | **LOC105377085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377086 | XR_001740696,XR_ | **LOC105377086** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377087 | XR_001740698,XR_ | **LOC105377087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377088 | XR_940839 | **LOC105377088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377091 | XR_940842 | **LOC105377091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377094 | XR_940846,XR_940 | **LOC105377094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377095 | XR_001740708,XR_ | **LOC105377095** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377096 | NR_147142 | **LINC02017** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377097 | XR_940856,XR_940 | **LOC105377097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377098 | XR_940861 | **LINC02030** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377099 | XR_940862 | **LOC105377099** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377100 | XR_001740710,XR_ | **LOC105377100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377101 | XR_940865 | **LOC105377101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377102 | NR_135535 | **LOC105377102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.261 |
| 105377103 | XR_001740711,XR_ | **LOC105377103** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377104 | XR_940874 | **LOC105377104** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377105 | NR_135534 | **FLNB-AS1** | FLNB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377106 | XR_940876 | **LOC105377106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 105377108 | NR_134853 | **FAM3D-AS1** | FAM3D antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377109 | XR_940879 | **LOC105377109** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377110 | XR_001740431,XR_ | **LOC105377110** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377111 | XR_940884 | **LOC105377111** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377112 | XR_940885 | **LOC105377112** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377113 | XR_001740429,XR_ | **LOC105377113** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377114 | XR_001740725,XR_ | **LOC105377114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377115 | XR_001740726 | **LOC105377115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377116 | XR_940895,XR_940 | **LOC105377116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377119 | XR_940902 | **LOC105377119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377121 | XR_940906 | **LOC105377121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377123 | XR_001740731,XR_ | **LOC105377123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105377124 | XR_001740436,XR_ | **LOC105377124** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377125 | XR_940925 | **LOC105377125** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377127 | XR_001740735,XR_ | **LOC105377127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377128 | XR_001740440 | **LOC105377128** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377134 | XR_937583 | **LOC105377134** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.991 |
| 105377136 | XR_937669 | **LOC105377136** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377137 | XR_937773,XR_937 | **LOC105377137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377138 | NR_146631 | **LINC01678** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377139 | XR_001755081,XR_ | **LOC105377139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377141 | XR_940934 | **LOC105377141** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377142 | XR_001740558,XR_ | **LOC105377142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377143 | NR_135533 | **LOC105377143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377144 | XR_940939 | **LOC105377144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377146 | NR_135532 | **LOC105377146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377148 | XR_001740442,XR_ | **LOC105377148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377151 | XR_940946 | **LOC105377151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377152 | XR_001740559 | **LOC105377152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377155 | XR_940950 | **LOC105377155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377156 | XR_001740744,XR_ | **LOC105377156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377157 | XR_940957 | **LOC105377157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105377158 | XR_001740748,XR_ | **LOC105377158** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377159 | XR_940960 | **LOC105377159** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377160 | XR_940961 | **LOC105377160** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377161 | XR_940962 | **LOC105377161** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.997 |
| 105377162 | NR_135531 | **LOC105377162** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377164 | XR_001740755,XR_ | **LOC105377164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377165 | NR_146637 | **LINC02005** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377166 | XR_940969 | **LOC105377166** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377167 | XR_001740758,XR_ | **LOC105377167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377168 | XR_940973,XR_940 | **LOC105377168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377171 | XR_940977,XR_940 | **LOC105377171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377172 | NR_146636 | **LINC02077** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377173 | XR_940981,XR_940 | **LOC105377173** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377174 | XR_001740793,XR_ | **LOC105377174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377175 | NR_147143,NR_147 | **LINC02050** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377176 | XR_940989 | **LOC105377176** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377177 | XR_001740790,XR_ | **LOC105377177** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377178 | XR_940996,XR_940 | **LOC105377178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377179 | XR_940999 | **LOC105377179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377180 | NR_147146 | **LINC02008** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377181 | XR_941003 | **LOC105377181** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377182 | XR_937989 | **FAM247C** | family with sequence sim | lncRNA | 1 | 1 | 2 | 2 | 0.924 |
| 105377183 | XR_941005,XR_941 | **LOC105377183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377186 | XR_941007,XR_941 | **LOC105377186** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377187 | XR_941009 | **LOC105377187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377188 | XR_001740795,XR_ | **LOC105377188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377190 | XR_938035 | **LOC105377190** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377191 | XR_001755622 | **LOC105377191** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377192 | NR_147147 | **LINC02025** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377193 | XR_002959699 | **LOC105377193** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377196 | XR_001740802,XR_ | **LOC105377196** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377198 | XR_941033 | **LOC105377198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377199 | XR_001755529,XR_ | **LOC105377199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 105377202 | XR_001740804 | **LOC105377202** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377203 | XR_938280 | **LOC105377203** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.868 |
| 105377205 | XR_001755602,XR_ | **LOC105377205** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.968 |
| 105377207 | XR_001740760,XR_ | **LOC105377207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377208 | XR_001755855 | **LOC105377208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377209 | XR_938385,XR_938 | **LOC105377209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377211 | XR_001755860,XR_ | **LOC105377211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 105377212 | XR_001755866,XR_ | **LOC105377212** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 105377213 | NR_135614 | **LOC105377213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377217 | XR_001756062 | **LOC105377217** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377218 | XR_938618 | **LOC105377218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377219 | XR_001756090 | **LOC105377219** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377220 | XR_001756063 | **LOC105377220** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377223 | XR_001756064,XR_ | **LOC105377223** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.964 |
| 105377224 | XR_001756067,XR_ | **LOC105377224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.027 |
| 105377225 | XR_001756069,XR_ | **LOC105377225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377227 | XR_001756053,XR_ | **LOC105377227** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377229 | XR_938644 | **LOC105377229** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377230 | XR_938645 | **LOC105377230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377231 | XR_938646,XR_938 | **LOC105377231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377232 | XR_938648 | **LOC105377232** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377234 | XR_938652 | **LOC105377234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377235 | XR_938654 | **LOC105377235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377236 | XR_938659,XR_938 | **LOC105377236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377237 | XR_938662 | **LOC105377237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377238 | XR_938663,XR_938 | **LOC105377238** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377239 | XR_938665,XR_938 | **LOC105377239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377240 | XR_938667 | **REREP1Y** | arginine-glutamic acid di | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105377241 | XR_938669,XR_938 | **LOC105377241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377242 | XR_938671,XR_938 | **LOC105377242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377243 | XR_938673 | **REREP2Y** | arginine-glutamic acid di | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105377244 | XR_938675 | **LOC105377244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377245 | NR_133939,NR_133 | **LINC02619** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377246 | XR_938805 | **LOC105377246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377247 | NR_133941,NR_133 | **LINC02429** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377248 | XR_938807 | **LINC02496** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377249 | NR_147148 | **LINC02271** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377253 | XR_001741709,XR_ | **LOC105377253** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.772 |
| 105377254 | XR_938819,XR_938 | **LOC105377254** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377255 | XR_938828 | **LOC105377255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377256 | XR_002959796 | **LINC02835** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377258 | XR_938833 | **LOC105377258** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377259 | XR_938834,XR_938 | **LOC105377259** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377260 | XR_938841 | **LOC105377260** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377261 | XR_938842,XR_938 | **LOC105377261** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377262 | XR_938847,XR_938 | **LOC105377262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377265 | XR_001741714,XR_ | **LOC105377265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377267 | NR_136191 | **LOC105377267** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377269 | XR_001741715,XR_ | **LOC105377269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377270 | XR_938859 | **LOC105377270** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377271 | XR_001741717,XR_ | **LOC105377271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377272 | XR_001741723 | **LOC105377272** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377273 | XR_938873 | **LOC105377273** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377275 | XR_938875,XR_938 | **LOC105377275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377276 | XR_938877 | **LOC105377276** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377277 | XR_938878 | **LOC105377277** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377278 | XR_938880,XR_938 | **LOC105377278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377280 | XR_938883 | **LOC105377280** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377282 | XR_938885,XR_938 | **LOC105377282** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377283 | NR_149051 | **LINC02562** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377284 | XR_001741729,XR_ | **LOC105377284** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377285 | XR_938895 | **LOC105377285** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377286 | XR_001741406,XR_ | **LOC105377286** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377289 | XR_001741405,XR_ | **SHROOM3-AS1** | SHROOM3 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377290 | XR_001741399,XR_ | **LOC105377290** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377291 | XR_001741731,XR_ | **LOC105377291** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.254 |
| 105377294 | XR_001741738,XR_ | **LOC105377294** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.923 |
| 105377295 | XR_938911 | **LOC105377295** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377296 | XR_001741743,XR_ | **LOC105377296** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105377297 | XR_938914,XR_938 | **LOC105377297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 105377299 | XR_938918 | **LOC105377299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377300 | XR_938919,XR_938 | **LOC105377300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377301 | XR_001741748,XR_ | **LINC02469** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377302 | XR_938924,XR_938 | **LOC105377302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377303 | XR_938928,XR_938 | **LOC105377303** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.054 |
| 105377305 | XR_938931 | **LOC105377305** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377306 | XR_001741751,XR_ | **LOC105377306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377307 | XR_938934,XR_938 | **VAMP9P** | vesicle associated memb | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105377308 | XR_001741752,XR_ | **LOC105377308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 105377310 | XM_011532442,XR_ | **LOC105377310** | syncytin-1-like, transcript | protein_coding | 0 | 0 | 1 | 1 | 1.379 |
| 105377313 | XR_938944 | **LOC105377313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377315 | XR_938946 | **LOC105377315** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377319 | XR_938955 | **LOC105377319** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377320 | XR_938956 | **LOC105377320** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377321 | XR_002959798,XR_ | **LOC105377321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377323 | XR_938960 | **LOC105377323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377324 | XR_938961 | **LOC105377324** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377326 | XR_938964 | **LOC105377326** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377327 | XR_001741763,XR_ | **LOC105377327** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377328 | XR_938979,XR_938 | **LOC105377328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377329 | XR_001741764,XR_ | **LOC105377329** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377331 | XR_939000 | **LOC105377331** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377335 | XR_939004 | **LOC105377335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105377337 | XR_001741409 | **LOC105377337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377338 | NR_147149 | **LINC02267** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377340 | XR_001741771,XR_ | **LOC105377340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377342 | NR_148380 | **LOC105377342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.049 |
| 105377343 | XR_001741776,XR_ | **LOC105377343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377345 | XR_939023 | **LOC105377345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377347 | XR_001741780,XR_ | **LOC105377347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377348 | NR_131185,NR_13 | **UBE2D3-AS1** | UBE2D3 antisense RNA | lncRNA | 1 | 2 | 2 | 3 | 1.187 |
| 105377349 | XR_001741782,XR_ | **LINC02503** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377350 | XR_939033 | **LOC105377350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377351 | XR_939037 | **LOC105377351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377352 | XR_001741410,XR_ | **LOC105377352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377355 | NR_147150 | **LINC02173** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377356 | XR_939051,XR_939 | **LOC105377356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377357 | XR_939057,XR_939 | **LOC105377357** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377358 | XR_939059 | **LOC105377358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377359 | XR_001741788,XR_ | **LOC105377359** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.075 |
| 105377362 | XR_939068,XR_939 | **LOC105377362** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377363 | XR_939071 | **LOC105377363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377364 | XR_001741518 | **LOC105377364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377365 | XR_939073 | **LOC105377365** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377366 | XR_939074 | **LOC105377366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377367 | XR_939075 | **LOC105377367** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377369 | XR_939076,XR_939 | **LOC105377369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377370 | XR_939078 | **LOC105377370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377372 | NR_161159 | **NEUROG2-AS1** | NEUROG2 and ZGRF1 a | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377373 | XR_001741417,XR_ | **ANK2-AS1** | ANK2 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377374 | XR_939085,XR_939 | **LOC105377374** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377375 | XR_939087 | **LOC105377375** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377376 | XR_939088 | **LOC105377376** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377378 | XR_939090,XR_939 | **LOC105377378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377379 | XR_001741520,XR_ | **LOC105377379** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377380 | XR_939093 | **LOC105377380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377382 | XR_001741795,XR_ | **LOC105377382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377383 | XR_939096 | **LOC105377383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377384 | XR_939097 | **LOC105377384** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377385 | XR_939098 | **LOC105377385** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377387 | XR_939101 | **LOC105377387** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377388 | XR_939103 | **LOC105377388** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377389 | NR_147151 | **LINC02262** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377390 | NR_147152,NR_147 | **LINC02263** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377391 | NR_147154 | **LINC02264** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377392 | XR_939113 | **LOC105377392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377393 | XR_939119 | **LOC105377393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.922 |
| 105377394 | XR_939120 | **LOC105377394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377395 | XR_939124,XR_939 | **LOC105377395** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377396 | XR_001741430 | **LOC105377396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377397 | XR_939161 | **LOC105377397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377399 | XR_001741804 | **LOC105377399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377400 | XR_001741805,XR_ | **LOC105377400** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377401 | XR_939166 | **LOC105377401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377402 | XR_001741808,XR_ | **LOC105377402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377404 | XR_939169 | **LOC105377404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377405 | XR_001741810,XR_ | **LOC105377405** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377406 | XR_001741813,XR_ | **LOC105377406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377407 | XR_939176,XR_939 | **LOC105377407** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377408 | XR_001741822 | **LOC105377408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377409 | XR_001741523,XR_ | **LOC105377409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377410 | XR_939182 | **LOC105377410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377411 | XR_939183 | **LOC105377411** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377412 | XR_001741827,XR_ | **LOC105377412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377413 | XR_939187 | **LOC105377413** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377414 | XR_939188 | **LOC105377414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377416 | XR_939190 | **LOC105377416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377417 | XR_939191 | **LOC105377417** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377418 | XR_939192 | **LOC105377418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377420 | NR_147186 | **LINC02479** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377422 | XR_939196 | **LOC105377422** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377423 | XR_939197 | **LOC105377423** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377424 | XR_939198 | **LINC02377** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377425 | XR_002959802 | **LOC105377425** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377428 | XR_939203 | **LOC105377428** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377431 | XR_939206 | **LOC105377431** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377432 | XR_939207 | **LOC105377432** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377434 | NR_147155 | **LINC02462** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377436 | XR_939211,XR_939 | **LOC105377436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377437 | XR_939215,XR_939 | **LOC105377437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377438 | XR_939217 | **LOC105377438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377439 | NR_147187 | **LINC02485** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377441 | NR_149105 | **LINC02511** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377442 | XR_939223,XR_939 | **LOC105377442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377443 | NR_146553 | **LINC02172** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377444 | XR_939236 | **LOC105377444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377445 | XR_939237 | **LOC105377445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377446 | XR_001741844,XR_ | **LINC00498** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377447 | XR_939242 | **LOC105377447** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377448 | NR_133945 | **LOC105377448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377449 | XR_939248 | **LOC105377449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.837 |
| 105377451 | XR_939251 | **LOC105377451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377452 | XR_001741856,XR_ | **LOC105377452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377456 | XR_939260,XR_939 | **LINC02276** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377457 | XR_001741433,XR_ | **LOC105377457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377458 | NR_134680 | **LOC105377458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377459 | XR_001741861 | **LOC105377459** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377460 | XR_001741862,XR_ | **LOC105377460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377461 | XR_001741865,XR_ | **LOC105377461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377462 | XR_939272,XR_939 | **LOC105377462** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377465 | XR_939276 | **LOC105377465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377466 | NR_147156 | **LINC02266** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377467 | XR_939281 | **LINC02491** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377468 | XR_001741867,XR_ | **LOC105377468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377469 | XR_939294 | **LOC105377469** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377470 | XR_001741870 | **LOC105377470** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377472 | XR_001741872 | **LOC105377472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377473 | XR_001741873,XR_ | **LOC105377473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377474 | XR_939314 | **LOC105377474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377475 | XR_939315 | **LOC105377475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377476 | XR_939316 | **LOC105377476** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377477 | XR_001741879,XR_ | **LINC02507** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377478 | XR_001741880,XR_ | **LOC105377478** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377479 | XR_939327 | **LOC105377479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377480 | NR_134681 | **LOC105377480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377481 | XR_001741436,XR_ | **LOC105377481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377483 | XR_939336 | **LOC105377483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377485 | XR_939339 | **LOC105377485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377486 | XR_001741443,XR_ | **FAM160A1-DT** | FAM160A1 divergent trar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377488 | XR_001741887,XR_ | **LOC105377488** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377489 | XR_939351 | **LOC105377489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377490 | XR_001741889,XR_ | **LOC105377490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105377492 | XR_939354,XR_939 | **LOC105377492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.090 |
| 105377495 | XR_939359 | **LOC105377495** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377496 | XR_939360 | **LOC105377496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377498 | XR_939363 | **LOC105377498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377499 | XR_001741890,XR_ | **LOC105377499** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377500 | XR_939371 | **LOC105377500** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377501 | XR_939372 | **LOC105377501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105377502 | XR_939373 | **LOC105377502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377503 | XR_939374,XR_939 | **LOC105377503** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377504 | XR_939376 | **LOC105377504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377505 | XR_001741895 | **LOC105377505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377506 | XR_001741896,XR_ | **LOC105377506** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377507 | XR_001741901,XR_ | **LOC105377507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377508 | XR_939397,XR_939 | **LOC105377508** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377509 | XR_939400 | **LOC105377509** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377510 | XR_939403 | **LOC105377510** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377512 | XR_001741914 | **LINC02477** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377513 | XR_001741528,XR_ | **LOC105377513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377514 | XR_939407,XR_939 | **LOC105377514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377515 | XR_939409 | **LOC105377515** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377516 | XR_939412 | **LOC105377516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377517 | XR_939413,XR_939 | **LOC105377517** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377519 | XR_939416 | **LOC105377519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377520 | XR_939419 | **LOC105377520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377521 | XR_939420 | **LOC105377521** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377523 | XR_939422,XR_939 | **LOC105377523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377524 | XR_001741917,XR_ | **LOC105377524** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.098 |
| 105377527 | XR_939429 | **LOC105377527** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377529 | XR_939436,XR_939 | **LOC105377529** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377530 | XR_939439 | **LOC105377530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377534 | XR_939443 | **LOC105377534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377535 | XR_939444 | **LOC105377535** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377536 | NR_147157 | **LINC02174** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377537 | XR_939451 | **LOC105377537** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377540 | XR_939462,XR_939 | **SAP30-DT** | SAP30 divergent transcri | lncRNA | 2 | 1 | 3 | 2 | 0.824 |
| 105377541 | XR_939464 | **LOC105377541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.917 |
| 105377543 | XR_001741461,XR_ | **LOC105377543** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377544 | XR_939482,XR_939 | **LOC105377544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377546 | XR_939486 | **LOC105377546** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377547 | XR_001741919,XR_ | **LOC105377547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377548 | XR_002959809,XR_ | **LOC105377548** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.921 |
| 105377549 | XR_939492 | **LOC105377549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.828 |
| 105377551 | XR_939494 | **LOC105377551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.905 |
| 105377552 | XR_939495 | **LOC105377552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377555 | XR_939498,XR_939 | **LOC105377555** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377556 | NR_149104 | **LINC02509** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377557 | XR_001741925 | **LOC105377557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377558 | XR_001741926 | **LOC105377558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377559 | XR_939510 | **LOC105377559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377560 | XR_939511 | **LOC105377560** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377561 | XR_002959839,XR_ | **LOC105377561** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377562 | XR_939514 | **LOC105377562** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377563 | XR_939515 | **LOC105377563** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377564 | XR_001741480,XR_ | **LOC105377564** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377565 | XR_939517 | **LOC105377565** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377567 | XR_001741467,XR_ | **LOC105377567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377568 | XR_001741481,XR_ | **LOC105377568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377571 | XR_001741487,XR_ | **LOC105377571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377572 | XR_001741482,XR_ | **LOC105377572** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377573 | NR_147188 | **TEMN3-AS1** | TENM3 antisense transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377576 | XR_001741930,XR_ | **LOC105377576** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.968 |
| 105377577 | XR_939536 | **LOC105377577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377578 | XR_001741938,XR_ | **LOC105377578** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377579 | XR_939542 | **LOC105377579** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377580 | XR_001741939,XR_ | **LOC105377580** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377581 | XR_939545 | **LOC105377581** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 105377582 | XR_939546,XR_939 | **LOC105377582** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 105377584 | XR_939557 | **LOC105377584** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377585 | NR_147158 | **LINC02427** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.919 |
| 105377586 | NR_131965,NR_13 | **LINC02365** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 105377587 | XR_001741947,XR_ | **LOC105377587** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377588 | XR_002959837,XR_ | **LOC105377588** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377590 | NR_133944 | **LOC105377590** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377596 | XR_939589,XR_939 | **LOC105377596** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377599 | XR_939596 | **LOC105377599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377600 | NR_147159 | **LINC02374** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377602 | NR_149103 | **LINC02514** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377603 | XR_001741957 | **LOC105377603** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377604 | XR_939612,XR_939 | **LOC105377604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377606 | XR_939616,XR_939 | **LINC02434** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377607 | XR_939619 | **LOC105377607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377608 | XR_939620 | **LOC105377608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377609 | XR_001741960,XR_ | **LOC105377609** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377610 | NR_149102 | **LINC02508** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377611 | XR_939630 | **LOC105377611** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377612 | XR_939631,XR_939 | **LOC105377612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377613 | XR_001741964,XR_ | **LOC105377613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377614 | XR_939634 | **LOC105377614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377615 | XR_939635 | **LOC105377615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377616 | XR_001741965 | **LOC105377616** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 105377617 | NR_132380 | **LINC01596** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377619 | XR_001741969,XR_ | **LOC105377619** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377621 | NR_136202 | **LOC105377621** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.374 |
| 105377622 | XM_017008887 | **LOC105377622** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.030 |
| 105377623 | NR_136203 | **LOC105377623** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.727 |
| 105377626 | XR_939842 | **LOC105377626** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.821 |
| 105377627 | XR_001739090,XR_ | **LOC105377627** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377628 | XR_940110 | **LOC105377628** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377632 | XR_001739483,XR_ | **LOC105377632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377633 | XR_940138 | **LOC105377633** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377635 | XR_940325 | **LOC105377635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377641 | XM_024453864,XM | **LOC105377641** | endogenous retrovirus g | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377642 | XR_002959625 | **LOC105377642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377644 | XR_002959626,XR_ | **LOC105377644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.855 |
| 105377645 | XR_940756 | **LOC105377645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377647 | XR_940901 | **LOC105377647** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377650 | XM_017007608 | **LOC105377650** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377651 | NR_134682 | **LOC105377651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377652 | NR_147189 | **LINC02480** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377654 | XR_001741693,XR_ | **LOC105377654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377656 | NR_147160 | **LINC02283** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377657 | XR_941053,XR_941 | **LOC105377657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377659 | XR_941060 | **LOC105377659** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.197 |
| 105377660 | XR_941061 | **LOC105377660** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377661 | XR_941062 | **LOC105377661** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377663 | XR_001741694,XR_ | **LOC105377663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377664 | XR_941075 | **LOC105377664** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377665 | XR_001741700,XR_ | **LOC105377665** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377666 | XR_941078 | **LOC105377666** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377667 | XR_001741701,XR_ | **CHAER1** | cardiac hypertrophy ass | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377668 | XR_941082 | **LOC105377668** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.061 |
| 105377670 | XR_941084 | **LOC105377670** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377671 | NR_133943 | **LINC02494** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377672 | XR_941087,XR_941 | **LOC105377672** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377673 | XR_001742474,XR_ | **LOC105377673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377675 | XR_941127,XR_941 | **LOC105377675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377676 | XR_941129 | **LOC105377676** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377677 | XR_941130 | **LOC105377677** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377678 | XR_001742535 | **LOC105377678** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377680 | XR_941134 | **LOC105377680** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377682 | NR_134261 | **LINC01932** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 105377683 | XR_941138 | **LOC105377683** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377684 | XR_941139,XR_941 | **LOC105377684** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105377685 | XR_001742947,XR_ | **LOC105377685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377687 | XR_941144 | **LOC105377687** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377688 | XR_001742949 | **LOC105377688** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377689 | XR_001742951 | **LOC105377689** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377690 | XR_002956232,XR_ | **FABP6-AS1** | FABP6 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377691 | XR_001742954,XR_ | **LOC105377691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377693 | XR_001742536,XR_ | **LOC105377693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377694 | XR_001742957 | **LOC105377694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377696 | XR_941157,XR_941 | **LOC105377696** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377697 | XR_941159 | **LOC105377697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377698 | XR_001742958,XR_ | **LOC105377698** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377699 | XR_001742959,XR_ | **LOC105377699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377700 | XR_001742961,XR_ | **LOC105377700** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 105377701 | XR_001742479,XR_ | **LINC01938** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377702 | XR_941178 | **LOC105377702** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377703 | XR_001742489 | **LOC105377703** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377705 | XR_941181 | **LOC105377705** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377706 | XR_941182 | **LOC105377706** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377709 | XR_941186 | **LOC105377709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377712 | XR_001742968,XR_ | **LOC105377712** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377713 | XR_001742970,XR_ | **LOC105377713** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377714 | XR_941198,XR_941 | **LOC105377714** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377715 | XR_941204,XR_941 | **LOC105377715** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377716 | NR_136214 | **KCNIP1-AS1** | KCNIP1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377720 | XR_941212 | **LOC105377720** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377721 | XR_941213 | **LOC105377721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377722 | XR_941214 | **LOC105377722** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377723 | XR_941215 | **LOC105377723** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377724 | XR_001742980,XR_ | **LOC105377724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377725 | XR_001742985,XR_ | **LOC105377725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 105377727 | XR_001742994,XR_ | **LOC105377727** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377728 | NR_146726 | **LINC01944** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377729 | XR_941229 | **LOC105377729** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377730 | XR_001742998,XR_ | **LOC105377730** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 105377731 | XR_941237 | **LOC105377731** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.068 |
| 105377732 | XR_001743000,XR_ | **LOC105377732** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377733 | XR_941247,XR_941 | **LOC105377733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377735 | XR_941250 | **LOC105377735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105377736 | NR_146727 | **LINC01942** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377739 | XR_941261 | **LOC105377739** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377740 | XR_001743009,XR_ | **LOC105377740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377741 | XR_941264 | **LOC105377741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377742 | XR_941265 | **LOC105377742** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377743 | XR_001743011,XR_ | **LOC105377743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.908 |
| 105377744 | XR_941268 | **LOC105377744** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377745 | XR_941269 | **THOC3-AS1** | THOC3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377746 | XM_011534709 | **LOC105377746** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377750 | XR_001743016,XR_ | **LOC105377750** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.703 |
| 105377752 | NR_157842 | **LOC105377752** | FAM83G pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105377753 | XR_941301 | **LOC105377753** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377754 | XR_941302 | **LOC105377754** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377756 | XR_941305 | **LOC105377756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377757 | XR_001743036,XR_ | **LOC105377757** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377759 | XR_941311 | **LOC105377759** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377761 | XR_941313 | **LOC105377761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377762 | XR_002956239,XR_ | **LOC105377762** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377763 | NR_134259,NR_134 | **LOC105377763** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.982 |
| 105377765 | NR_146728 | **LINC02222** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377766 | XR_001743045 | **LOC105377766** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377769 | XR_941333,XR_941 | **LOC105377769** | uncharacterized LOC105 | lncRNA | 3 | 5 | 4 | 6 | 1.813 |
| 105377771 | XR_001743047,XR_ | **LOC105377771** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.802 |
| 105377773 | XR_941343,XR_941 | **LOC105377773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377775 | XR_941345,XR_941 | **LOC105377775** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377777 | NR_160729 | **LOC105377777** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377778 | XR_001745757,XR_ | **LOC105377778** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377779 | XR_941353 | **LOC105377779** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377781 | XR_941355,XR_941 | **LOC105377781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377782 | XR_941357 | **LOC105377782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377783 | XR_001745760,XR_ | **LOC105377783** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377784 | XR_001745761,XR_ | **LOC105377784** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377785 | NR_168441,NR_168 | **LOC105377785** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377789 | XR_941368 | **LOC105377789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377790 | XR_941369 | **LOC105377790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377791 | XR_001745634 | **LOC105377791** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377793 | XR_941372 | **LOC105377793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377794 | XR_941373 | **LOC105377794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377795 | XR_001745765,XR_ | **LOC105377795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377796 | XR_941379 | **LOC105377796** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377797 | XR_941380,XR_941 | **LOC105377797** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377799 | XR_002956660 | **LOC105377799** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377800 | XR_001745779,XR_ | **LOC105377800** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377801 | XR_941389 | **LOC105377801** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377803 | XR_941391,XR_941 | **LOC105377803** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377805 | XM_011534854,XM | **LOC105377805** | basic salivary proline-ric | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105377806 | XR_001750048 | **LOC105377806** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377811 | XR_001740562 | **LOC105377811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377814 | XR_941875 | **LOC105377814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377815 | XR_942026 | **LOC105377815** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377816 | XR_942079 | **LOC105377816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377822 | XR_942182 | **LOC105377822** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377824 | XR_942184 | **LOC105377824** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377826 | XR_001752723,XR_ | **LOC105377826** | uncharacterized LOC105 | lncRNA | 3 | 4 | 4 | 5 | 1.106 |
| 105377836 | XR_942649 | **LOC105377836** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377837 | XR_942650 | **LOC105377837** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377838 | XR_942651 | **LOC105377838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377839 | XR_942653 | **LOC105377839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377840 | XR_942654,XR_942 | **LOC105377840** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377841 | XR_942657 | **LOC105377841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377842 | XR_942658 | **LOC105377842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377843 | XR_942660 | **LOC105377843** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377844 | XR_942661 | **LOC105377844** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377845 | XR_942662 | **LOC105377845** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377846 | XR_942663 | **LOC105377846** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.937 |
| 105377847 | XR_002956354,XR_ | **LOC105377847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377848 | XR_942670,XR_942 | **LOC105377848** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377849 | NR_147708 | **FAM135A-AS1** | FAM135A antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377850 | XR_001744196,XR_ | **LOC105377850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377853 | XR_942683 | **LOC105377853** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377855 | XR_942688 | **LOC105377855** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377858 | XR_001744201,XR_ | **LOC105377858** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377860 | NR_149101 | **LINC02540** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377861 | XR_942697 | **LOC105377861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377862 | XR_001744208,XR_ | **LOC105377862** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377864 | XR_942708 | **LOC105377864** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.981 |
| 105377865 | XR_002956359 | **LOC105377865** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377867 | XR_942714 | **LOC105377867** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377869 | XR_942720 | **LOC105377869** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377871 | XR_001744218,XR_ | **LOC105377871** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377872 | XR_001744224,XR_ | **LOC105377872** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377873 | XR_942729 | **LOC105377873** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377874 | XR_942737 | **LOC105377874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377875 | XR_942738 | **LOC105377875** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377876 | XR_001744232,XR_ | **LOC105377876** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377877 | XR_001743883 | **LOC105377877** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377879 | NR_136251 | **LOC105377879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377880 | NR_132100 | **LINC01611** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105377881 | XR_942746 | **LOC105377881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377882 | XR_001744246,XR_ | **LOC105377882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377884 | XR_001744247,XR_ | **LOC105377884** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377885 | XR_001744248,XR_ | **LOC105377885** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377887 | XR_942770 | **LOC105377887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105377889 | XR_001744257 | **LOC105377889** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377890 | XR_001744258 | **LOC105377890** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377891 | XR_942778 | **LOC105377891** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377893 | XR_942782 | **LOC105377893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377894 | XR_942783 | **LOC105377894** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377896 | XR_942786 | **LOC105377896** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377897 | XR_942787 | **LOC105377897** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377899 | XR_001744262 | **LOC105377899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377901 | XR_942793 | **LOC105377901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377905 | XR_001744267 | **LOC105377905** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377908 | XR_942807 | **LOC105377908** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377909 | XR_942808 | **LOC105377909** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377910 | XR_942812 | **LOC105377910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377911 | XR_001743887 | **LOC105377911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377913 | XR_942820 | **LOC105377913** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377916 | XR_942824,XR_942 | **LOC105377916** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377917 | XR_001743890 | **LOC105377917** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377918 | XR_001744271,XR_ | **LOC105377918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 105377920 | XR_942831 | **LOC105377920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377921 | XR_942832 | **LOC105377921** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.132 |
| 105377922 | XR_942833 | **LINC02836** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377923 | XR_001744274,XR_ | **LOC105377923** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377924 | NR_134603 | **LOC105377924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377926 | NR_149100 | **LINC02526** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.881 |
| 105377927 | XR_942840,XR_942 | **LOC105377927** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377928 | XR_942842 | **LOC105377928** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377929 | XR_942843 | **LOC105377929** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377932 | XR_942847 | **LOC105377932** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377935 | XR_942855 | **LOC105377935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377936 | XR_942856 | **LOC105377936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377937 | XR_942858,XR_942 | **LOC105377937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.771 |
| 105377938 | XR_942860 | **LOC105377938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377939 | XR_001744292,XR_ | **LOC105377939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377940 | XR_942864 | **LOC105377940** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377941 | XR_942865,XR_942 | **LOC105377941** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377944 | XR_001743811,XR_ | **LOC105377944** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377945 | XR_001743812 | **LOC105377945** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377946 | NR_149099 | **LINC02527** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377947 | XR_001744294,XR_ | **LOC105377947** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377949 | XR_001744304,XR_ | **LOC105377949** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377950 | XR_001744305,XR_ | **LOC105377950** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377951 | XR_942887 | **LOC105377951** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377952 | XR_942888,XR_942 | **LOC105377952** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377953 | XR_001744309,XR_ | **LOC105377953** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377955 | XR_942893 | **LOC105377955** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377956 | XR_942894 | **LOC105377956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377957 | NR_149098 | **LINC02518** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377959 | XR_942899,XR_942 | **LOC105377959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377960 | XR_942905 | **LOC105377960** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377961 | XR_942906 | **LOC105377961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377962 | NR_134602 | **LINC02534** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377963 | XR_942910 | **LOC105377963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377964 | XR_942911 | **LOC105377964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377967 | NR_134601 | **LOC105377967** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377971 | XR_001743822,XR_ | **LOC105377971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377972 | XR_001743826 | **LOC105377972** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377973 | XR_942930 | **LOC105377973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377975 | NR_134600 | **LOC105377975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.204 |
| 105377977 | XR_942934 | **LOC105377977** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.074 |
| 105377978 | XR_942935 | **LOC105377978** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377979 | XR_001744320,XR_ | **LOC105377979** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377981 | XR_942943 | **LOC105377981** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377982 | XR_001743830,XR_ | **LOC105377982** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377984 | XR_001743829,XR_ | **LOC105377984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377986 | XR_001744330,XR_ | **LOC105377986** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377989 | XR_002956387,XR_ | **LOC105377989** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377991 | XR_002956391,XR_ | **LOC105377991** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377992 | XR_001743835,XR_ | **LOC105377992** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105377993 | XR_001743837 | **LOC105377993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377994 | XR_001744333,XR_ | **LOC105377994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377995 | XR_942977 | **LOC105377995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377996 | XR_942978,XR_942 | **LOC105377996** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377997 | XR_001743851,XR_ | **LINC02536** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377998 | XR_001744339,XR_ | **LOC105377998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105377999 | XR_942986 | **LOC105377999** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378000 | XR_942987 | **LOC105378000** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.143 |
| 105378002 | XR_942990 | **LOC105378002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378003 | XR_942991 | **LOC105378003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378004 | XR_942993 | **LOC105378004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378005 | XR_001744343,XR_ | **LOC105378005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378008 | XR_001744346,XR_ | **LOC105378008** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 105378009 | XR_943002 | **LOC105378009** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378010 | XR_001743891,XR_ | **LOC105378010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378011 | XR_001744367,XR_ | **LOC105378011** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378012 | XR_943034 | **LOC105378012** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378013 | XR_943035,XR_943 | **LOC105378013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378017 | XR_943043 | **LOC105378017** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378018 | XR_943058 | **LOC105378018** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378020 | NR_149097 | **LINC02528** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.654 |
| 105378021 | XR_943062 | **LOC105378021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378023 | XR_943067 | **LOC105378023** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378024 | XR_943068 | **LOC105378024** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378025 | XR_943069 | **LOC105378025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378026 | XR_001744389,XR_ | **LOC105378026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378027 | XR_001744385,XR_ | **LOC105378027** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378029 | XR_943077 | **LOC105378029** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378030 | XR_001744392 | **LOC105378030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378031 | XR_001744393,XR_ | **LOC105378031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378032 | XR_001744395 | **LOC105378032** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378035 | XR_001744402,XR_ | **LOC105378035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 105378036 | XR_001744405,XR_ | **LOC105378036** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378039 | XR_001744406 | **LOC105378039** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378040 | XR_943093 | **LOC105378040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378041 | XR_001744407 | **LOC105378041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378043 | XR_943097 | **LOC105378043** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378044 | XR_943098 | **LOC105378044** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378046 | XR_943100 | **LOC105378046** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378047 | NR_134599 | **UST-AS2** | UST antisense RNA 2 | lncRNA | 2 | 2 | 3 | 3 | 1.003 |
| 105378049 | NR_149096 | **TAB2-AS1** | TAB2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378050 | XR_943105 | **LOC105378050** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378052 | NR_134598 | **LOC105378052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378054 | XR_943108,XR_943 | **LOC105378054** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378061 | XR_001744416 | **LOC105378061** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378065 | XR_001744417,XR_ | **LINC02840** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378066 | XR_001744420,XR_ | **LOC105378066** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378067 | XR_943131 | **LOC105378067** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378068 | NR_134596,NR_134 | **LOC105378068** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378069 | XR_943135 | **LOC105378069** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378071 | XR_943136,XR_943 | **LOC105378071** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378072 | XR_001744424 | **LOC105378072** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378073 | XR_943147 | **LOC105378073** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105378075 | XR_943149,XR_943 | **LOC105378075** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378076 | XR_943165 | **LOC105378076** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378077 | XR_943166 | **LOC105378077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 105378078 | XR_943168 | **SNX9-AS1** | SNX9 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378083 | XR_001744428,XR_ | **LOC105378083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.041 |
| 105378084 | XR_943175,XR_943 | **LOC105378084** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378085 | XR_001744434,XR_ | **LOC105378085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.063 |
| 105378088 | XR_001744437 | **LOC105378088** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378091 | XR_943188 | **LOC105378091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378093 | XR_943195,XR_943 | **LOC105378093** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378094 | XR_943197 | **LOC105378094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378095 | XR_943198 | **LOC105378095** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378097 | XR_943203 | **LOC105378097** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378098 | NR_134593,NR_134 | **LOC105378098** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378099 | XR_001743897 | **LOC105378099** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378100 | XR_943207,XR_943 | **LOC105378100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378102 | XR_943213 | **LOC105378102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378104 | XR_943216 | **LOC105378104** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378105 | XM_011536292 | **LOC105378105** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378106 | XR_943218 | **LOC105378106** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378109 | XR_943223,XR_943 | **LOC105378109** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378110 | XR_943225 | **LOC105378110** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378111 | NR_131926 | **MEAT6** | melanoma-associated tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378113 | XR_943230,XR_943 | **LOC105378113** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378114 | XR_002956378 | **LOC105378114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378115 | XR_943236 | **LOC105378115** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378116 | XR_943237,XR_943 | **LOC105378116** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378117 | XR_943241 | **LOC105378117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378118 | XR_943242 | **LOC105378118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378119 | gene-LOC10537811 | **LOC105378119** | . | pseudogene | 0 | 0 | 1 | 1 | 0.994 |
| 105378120 | XR_943243,XR_943 | **LOC105378120** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.513 |
| 105378122 | XR_001744467,XR_ | **LOC105378122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378123 | NR_134592 | **LOC105378123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378126 | XR_943262,XR_943 | **LOC105378126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378127 | NR_134591 | **LOC105378127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378128 | XR_943267 | **LOC105378128** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378129 | XR_943268 | **LOC105378129** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378130 | XR_943270,XR_943 | **LOC105378130** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378131 | XR_001743899,XR_ | **LOC105378131** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378132 | XR_943278 | **LOC105378132** | uncharacterized LOC105 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378135 | XR_943283 | **LOC105378135** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378137 | NR_134590 | **LOC105378137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378138 | XR_943289 | **LOC105378138** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378139 | XR_943290 | **LOC105378139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378140 | XR_943291,XR_943 | **LOC105378140** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378141 | XR_943293 | **LOC105378141** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378142 | XR_943294 | **LOC105378142** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378143 | XR_001744472,XR | **LOC105378143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378144 | XR_943297 | **LOC105378144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378145 | XR_943299,XR_943 | **LOC105378145** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378146 | NR_136248,NR_136 | **LOC105378146** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378147 | XR_001744474,XR_ | **LINC02519** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 105378148 | XM_017011620,XM_ | **LOC105378148** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378149 | XR_001744480,XR_ | **LOC105378149** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.954 |
| 105378150 | XR_002956380,XR_ | **LOC105378150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378153 | XR_943321,XR_943 | **LOC105378153** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.944 |
| 105378157 | XR_001744491,XR_ | **LOC105378157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378161 | XM_011536308 | **LOC105378161** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378171 | XR_943570 | **LOC105378171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378174 | XR_943577 | **LOC105378174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378175 | XR_943589 | **LOC105378175** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378177 | XR_943825 | **LOC105378177** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378178 | XR_001750756,XR_ | **LOC105378178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378179 | XR_001750763,XR_ | **LOC105378179** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.827 |
| 105378180 | XR_943864 | **LOC105378180** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378183 | NR_135269 | **LOC105378183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378184 | XR_001751029 | **LOC105378184** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378187 | XR_944271,XR_944 | **LOC105378187** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378193 | XM_024449448 | **LOC105378193** | peptidyl-prolyl cis-trans i | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378198 | XR_001742904,XR_ | **LOC105378198** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.851 |
| 105378199 | XR_001742473 | **LOC105378199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378204 | XR_944368 | **LOC105378204** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378208 | XR_944373,XR_944 | **LOC105378208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378209 | XR_944375 | **LOC105378209** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.339 |
| 105378210 | XR_944377 | **LOC105378210** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378211 | XR_001742911 | **LOC105378211** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378213 | XR_001742915 | **LOC105378213** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378214 | XR_944385,XR_944 | **LOC105378214** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378215 | XR_001742916,XR_ | **CTB-99A3.1** | uncharacterized CTB-99/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378217 | NR_147190,NR_147 | **STK32A-AS1** | STK32A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378218 | XR_001742933,XR_ | **LOC105378218** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378220 | NM_001363511 | **MARCOL** | MARCO like | protein_coding | 0 | 0 | 1 | 1 | 1.079 |
| 105378221 | XR_944400 | **LOC105378221** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378224 | XR_944405 | **LOC105378224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378225 | XR_944406 | **LOC105378225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378226 | XR_944407 | **LOC105378226** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378228 | XR_944410 | **LOC105378228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.097 |
| 105378230 | NR_160730 | **LOC105378230** | uncharacterized LOC105 | lncRNA | 5 | 3 | 6 | 4 | 0.779 |
| 105378231 | XR_944416,XR_944 | **LOC105378231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378234 | XR_944422,XR_944 | **LOC105378234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378235 | XR_944430 | **LOC105378235** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378236 | XR_944432 | **LOC105378236** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378237 | XR_944433 | **LOC105378237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378238 | NR_146729 | **LINC01861** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378239 | XR_001742940,XR_ | **LOC105378239** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378240 | XR_001741568 | **LOC105378240** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.824 |
| 105378242 | gene-LOC10537824 | **LOC105378242** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105378247 | XR_944875 | **LOC105378247** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378248 | XR_001749100,XR_ | **LOC105378248** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.927 |
| 105378250 | XR_944976 | **LOC105378250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378255 | XR_945169,XR_945 | **LOC105378255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378256 | XR_945331 | **LOC105378256** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378258 | XR_945451 | **LOC105378258** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378260 | XM_017028520,XM_ | **LOC105378260** | histone-lysine N-methylt | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378262 | XR_001741504 | **LOC105378262** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378267 | XR_001747432 | **LOC105378267** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378268 | XR_945898 | **LOC105378268** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 105378269 | NR_134498 | **LOC105378269** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378270 | XR_945901 | **LINC02633** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378271 | XR_945902 | **LOC105378271** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378274 | XR_945905 | **LOC105378274** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378275 | XR_945906,XR_945 | **LOC105378275** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378277 | XR_001747441,XR_ | **LINC02659** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378281 | XR_945915 | **LOC105378281** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378283 | XR_001747443 | **LOC105378283** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378286 | XR_945919,XR_945 | **LOC105378286** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378287 | XR_945923 | **LOC105378287** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378289 | XR_001747685 | **LOC105378289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378291 | XR_945936,XR_945 | **LOC105378291** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378292 | NR_134499 | **LOC105378292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378298 | XR_945949 | **LOC105378298** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378299 | XR_945951,XR_945 | **LOC105378299** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378302 | XR_002957079,XR_ | **LOC105378302** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378305 | NR_155748 | **LOC105378305** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378306 | XR_945963 | **LOC105378306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378307 | XR_001747451,XR_ | **LOC105378307** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105378308 | XR_945967,XR_945 | **LOC105378308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378309 | XR_001747452 | **LINC02672** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378310 | XR_945975 | **LOC105378310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378311 | NR_134503 | **LOC105378311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378313 | XR_001747453 | **LOC105378313** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378314 | XR_001747454 | **LOC105378314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378316 | XR_945981,XR_945 | **LOC105378316** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378318 | XR_945990 | **LOC105378318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378319 | XR_945991 | **LOC105378319** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378320 | XR_001747686,XR_ | **ANK3-DT** | ANK3 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378323 | XR_945997 | **LOC105378323** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378325 | XR_001747464 | **LINC02621** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378326 | XR_946000 | **LOC105378326** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378327 | XR_946002 | **LOC105378327** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378328 | XR_946003 | **LOC105378328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378329 | XR_001747467 | **LOC105378329** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378330 | NR_134312 | **LOC105378330** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378333 | XR_946014 | **LOC105378333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378335 | XR_946018,XR_946 | **LOC105378335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378336 | XR_946020 | **LOC105378336** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378337 | XR_946021 | **LOC105378337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378338 | XR_001747477 | **LOC105378338** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378339 | XR_001747476,XR_ | **LOC105378339** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378340 | XR_001747691,XR_ | **LOC105378340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378342 | XR_001747482,XR_ | **LOC105378342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378345 | XR_001747483,XR_ | **LOC105378345** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378346 | XR_946038 | **LINC02651** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378347 | XR_946039 | **LOC105378347** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378349 | NR_134313,NR_134 | **LINC02622** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378350 | XR_001747493 | **LOC105378350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378351 | XR_001747494,XR_ | **LOC105378351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378353 | XR_001747496,XR_ | **LOC105378353** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378355 | XR_946054 | **LOC105378355** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378356 | XR_946055 | **LOC105378356** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378358 | XR_001747498,XR_ | **LOC105378358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378360 | XR_946063 | **LOC105378360** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378367 | NR_132791 | **LOC105378367** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378369 | XR_001747502,XR_ | **LOC105378369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378372 | XR_001747510 | **LOC105378372** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378373 | XR_946094 | **LOC105378373** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378374 | XR_002957084 | **LOC105378374** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378375 | XR_001747512,XR_ | **LOC105378375** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378378 | XR_001747515 | **LOC105378378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.919 |
| 105378379 | XR_002957085,XR_ | **LOC105378379** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378383 | XR_946104 | **LOC105378383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378385 | NR_134315 | **LINC02679** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378386 | NR_155749 | **LINC02655** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378387 | XR_946132 | **LOC105378387** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378390 | XR_946135,XR_946 | **LOC105378390** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378392 | XR_946138,XR_946 | **LOC105378392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378393 | XR_946140 | **LOC105378393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378394 | XR_946141 | **LOC105378394** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378396 | XR_002957053,XR_ | **LOC105378396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378397 | NR_134317 | **LINC02650** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378398 | XR_946147 | **LOC105378398** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378399 | XR_946148,XR_946 | **LOC105378399** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378400 | XR_946150 | **LOC105378400** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378401 | XR_946151 | **LOC105378401** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378402 | XR_001747302,XR_ | **LOC105378402** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378403 | XR_946153 | **LOC105378403** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378404 | XR_001747523,XR_ | **LOC105378404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378406 | XR_946159,XR_946 | **LOC105378406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378407 | XR_946161,XR_946 | **LOC105378407** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378408 | XR_001747524,XR_ | **LOC105378408** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378409 | XR_001747526 | **LOC105378409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378410 | XR_001747527,XR_ | **LOC105378410** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.984 |
| 105378412 | XR_946171 | **LOC105378412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378414 | XR_001747303,XR_ | **LOC105378414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378415 | XR_001747531,XR_ | **LOC105378415** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378416 | XR_946178 | **LOC105378416** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378418 | XR_946180 | **LOC105378418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378419 | XR_001747539 | **LOC105378419** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378421 | XR_001747542,XR_ | **LOC105378421** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 105378424 | XR_946196 | **LOC105378424** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378425 | NR_149079,NR_149 | **LINC01374** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378426 | XR_946198 | **LOC105378426** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378427 | NR_131214 | **XLOC_008559** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378429 | XR_946201,XR_946 | **LOC105378429** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378430 | NR_134319 | **LOC105378430** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378433 | XR_001747548,XR_ | **LOC105378433** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378436 | XR_946212 | **LOC105378436** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378437 | XR_001747552,XR_ | **LOC105378437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378438 | XR_946215 | **LOC105378438** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378443 | XR_001747560,XR_ | **LOC105378443** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 105378444 | XR_001747561,XR_ | **LOC105378444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378447 | XR_946225,XR_946 | **LOC105378447** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378448 | XR_946228 | **LOC105378448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 105378449 | XR_001747305,XR_ | **LOC105378449** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378450 | XR_946241,XR_946 | **LOC105378450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378452 | XR_946246 | **LOC105378452** | uncharacterized LOC105 | lncRNA | 5 | 6 | 6 | 7 | 1.157 |
| 105378453 | XR_001747306,XR_ | **LOC105378453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378455 | XR_946249 | **LOC105378455** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378456 | XR_946250 | **LOC105378456** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378457 | XR_946252,XR_946 | **LOC105378457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378458 | XR_946254,XR_946 | **LOC105378458** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378460 | XR_001747575,XR_ | **LOC105378460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.945 |
| 105378464 | XR_946282,XR_946 | **LOC105378464** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378465 | XR_946285,XR_946 | **LOC105378465** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378466 | XR_946288 | **LOC105378466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378467 | XR_946289 | **LOC105378467** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378468 | XR_946292 | **LOC105378468** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378469 | XR_001747581,XR_ | **LOC105378469** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378470 | NR_134329,NR_134 | **LINC02624** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378472 | XR_946298 | **LOC105378472** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378473 | XR_946299,XR_946 | **LOC105378473** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378474 | XR_946301,XR_946 | **LOC105378474** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378475 | XR_946304 | **LOC105378475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378476 | XR_946306,XR_946 | **LOC105378476** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378477 | XR_946308,XR_946 | **LOC105378477** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378478 | XR_002957054 | **LINC02661** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378479 | NR_164121 | **LOC105378479** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378480 | XR_946315 | **LOC105378480** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378481 | XR_946316 | **LOC105378481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 105378482 | XR_001747585 | **LOC105378482** | uncharacterized LOC105 | lncRNA | 4 | 3 | 5 | 4 | 0.769 |
| 105378483 | XR_946318 | **LOC105378483** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.762 |
| 105378484 | XR_946319 | **LOC105378484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378485 | XR_946320 | **LOC105378485** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378486 | XR_946321,XR_946 | **LOC105378486** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378487 | XR_001747705 | **LOC105378487** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378489 | XR_001747588,XR_ | **LOC105378489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378490 | XR_946329 | **LOC105378490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378492 | XR_946332 | **LOC105378492** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378493 | XR_946333 | **LOC105378493** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378494 | XR_946334 | **LOC105378494** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378496 | XR_946336 | **LOC105378496** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378497 | XR_001747596,XR_ | **LOC105378497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105378498 | XR_946339 | **LOC105378498** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378499 | XR_001747599 | **LOC105378499** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378500 | XR_946342 | **LOC105378500** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378502 | XR_946344 | **LOC105378502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378504 | XR_946348 | **LOC105378504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378507 | XR_946354 | **LOC105378507** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378511 | XR_946357 | **LOC105378511** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378512 | XR_946358 | **LOC105378512** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.610 |
| 105378513 | XR_946359 | **LOC105378513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378515 | XR_001747605,XR_ | **LOC105378515** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378516 | XR_001747608,XR_ | **LOC105378516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378518 | XR_946370,XR_946 | **LOC105378518** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378519 | XR_001747609,XR_ | **LOC105378519** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378520 | XR_946373,XR_946 | **LOC105378520** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378521 | XR_001747610,XR_ | **LOC105378521** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378522 | XR_946379 | **LOC105378522** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378523 | XR_946380 | **LOC105378523** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378525 | XR_946382,XR_946 | **LOC105378525** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378526 | XR_946386 | **LOC105378526** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378530 | XR_946395 | **LOC105378530** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378531 | XR_001747614,XR_ | **LINC02641** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.936 |
| 105378532 | XR_001747621,XR_ | **LOC105378532** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378533 | XR_946423 | **LOC105378533** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378534 | XR_001747622 | **LOC105378534** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378536 | XR_001747632,XR_ | **LOC105378536** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378539 | XR_946431,XR_946 | **LOC105378539** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 105378541 | XR_946434 | **LOC105378541** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378542 | XR_946435 | **LOC105378542** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378543 | XR_946437 | **LOC105378543** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378544 | XR_946438 | **LOC105378544** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378545 | XR_946439 | **LOC105378545** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378547 | XR_946441,XR_946 | **LOC105378547** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378548 | XR_001747638 | **LOC105378548** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378549 | XR_001747636,XR_ | **LOC105378549** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378550 | XR_946449 | **LOC105378550** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378551 | XR_001747642 | **LOC105378551** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378552 | XR_001747640,XR_ | **LOC105378552** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378553 | NR_136149,NR_136 | **AS-PTPRE** | lncRNA antisense to PTF | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378554 | XR_946459 | **LOC105378554** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378555 | XR_946460 | **LOC105378555** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378556 | XR_946464 | **LOC105378556** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378557 | XR_946465 | **LOC105378557** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378558 | XR_001747656,XR_ | **LOC105378558** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378560 | XR_946467 | **LOC105378560** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 105378561 | XR_001747657,XR_ | **LOC105378561** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.948 |
| 105378562 | XR_946479 | **LOC105378562** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378563 | XR_946481,XR_946 | **LOC105378563** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378565 | XR_946487 | **LOC105378565** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378566 | XR_946488 | **LOC105378566** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378567 | XR_001747667,XR_ | **LOC105378567** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378568 | XR_001747670,XR_ | **LOC105378568** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378569 | XR_946491,XR_946 | **LOC105378569** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378570 | XR_001747671,XR_ | **LOC105378570** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378571 | XR_001747672,XR_ | **LOC105378571** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378572 | XR_946499 | **LOC105378572** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378573 | XR_946505 | **LOC105378573** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378574 | XR_946511 | **LOC105378574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378575 | XR_946512 | **LOC105378575** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378576 | XR_946513 | **LOC105378576** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378577 | NR_160731 | **LOC105378577** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.087 |
| 105378580 | XR_002958522,XR_ | **LINC01409** | long intergenic non-prote | lncRNA | 1 | 0 | 2 | 1 | 0.897 |
| 105378585 | XR_946814 | **LOC105378585** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.922 |
| 105378586 | NR_147951 | **LOC105378586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378589 | XR_001737843,XR_ | **LOC105378589** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378590 | XR_001737845,XR_ | **LOC105378590** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378591 | NR_135509 | **LOC105378591** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378593 | XR_946826 | **LOC105378593** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378597 | XR_946835,XR_946 | **MMEL1-AS1** | MMEL1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378598 | XR_001737846,XR_ | **LOC105378598** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378599 | XR_946864,XR_946 | **LOC105378599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378600 | XR_946866,XR_946 | **LOC105378600** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378601 | XR_946868,XR_946 | **LOC105378601** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378602 | XR_946870,XR_946 | **LOC105378602** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378603 | XR_946872 | **LOC105378603** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378604 | XR_001737865,XR_ | **LOC105378604** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378605 | XR_001737866 | **LOC105378605** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378606 | XR_001737867 | **LOC105378606** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378607 | XR_946883,XR_946 | **LOC105378607** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378608 | XR_946886 | **LOC105378608** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378609 | XR_946887 | **LOC105378609** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378610 | XR_946888,XR_946 | **TP73-AS3** | TP73 antisense RNA 3, t | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378612 | XR_946968 | **LOC105378612** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378614 | NR_135054 | **LOC105378614** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378615 | XR_947070 | **LOC105378615** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378616 | NR_146730,NR_146 | **LINC01715** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.787 |
| 105378617 | XR_001737959,XR_ | **LOC105378617** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378618 | XR_947129,XR_947 | **LOC105378618** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378620 | XR_947132 | **LOC105378620** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |
| 105378621 | XR_947133,XR_947 | **LOC105378621** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378622 | NR_146732 | **LINC01778** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378623 | XR_947141 | **LOC105378623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378625 | XR_947145,XR_947 | **LOC105378625** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378626 | XR_001737619,XR_ | **LOC105378626** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378628 | XR_947155 | **LOC105378628** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378629 | XR_947156,XR_947 | **LOC105378629** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378631 | XR_001737962,XR_ | **LOC105378631** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.824 |
| 105378632 | XR_947161 | **LOC105378632** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378635 | XR_947163 | **LOC105378635** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378638 | XR_001737963 | **LOC105378638** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378639 | XR_947169 | **LOC105378639** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378640 | XR_947170 | **LOC105378640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378641 | XR_001737964,XR_ | **LOC105378641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378642 | XR_001737967,XR_ | **LOC105378642** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378644 | XR_947180 | **LOC105378644** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378645 | XR_947182 | **TFAP2E-AS1** | TFAP2E antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.838 |
| 105378646 | XR_947183,XR_947 | **LOC105378646** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378647 | XR_001737972 | **LOC105378647** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.662 |
| 105378648 | XR_947188 | **LOC105378648** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378649 | XR_001737980,XR_ | **LOC105378649** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 105378650 | XR_947192 | **LOC105378650** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378651 | XR_001737982,XR_ | **LOC105378651** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378653 | NR_168386,NR_168 | **MIR3659HG** | MIR3659 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378654 | XR_001737984,XR_ | **LOC105378654** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378655 | XR_001737989,XR_ | **LINC02786** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378656 | NR_146761 | **LINC01685** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378657 | XR_947210 | **LOC105378657** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378658 | XR_947211 | **LOC105378658** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378660 | XR_947213 | **LOC105378660** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378662 | XR_001737994,XR_ | **LOC105378662** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378663 | NR_135048 | **LOC105378663** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378665 | XR_001738010 | **LOC105378665** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.983 |
| 105378666 | XR_947220 | **BMP8B-AS1** | BMP8B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378667 | XR_001738011,XR_ | **LOC105378667** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378668 | XR_947223 | **MYCL-AS1** | MYCL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378669 | XR_001738013,XR_ | **LOC105378669** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 105378671 | XR_947232 | **LOC105378671** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.171 |

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|---|---|---|---|---|---|---|---|---|---|
| 105378672 | XR_947234 | **LOC105378672** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.456 |
| 105378673 | XR_947235 | **LOC105378673** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378674 | XR_947236 | **LOC105378674** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378675 | XR_947237,XR_947 | **LOC105378675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378676 | XR_947239 | **LOC105378676** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378678 | XR_001738019,XR_ | **LOC105378678** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378683 | NR_133055 | **TMEM269-DT** | TMEM269 divergent tran | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378685 | XR_001738021,XR_ | **LOC105378685** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378687 | XR_001738025,XR_ | **LOC105378687** | uncharacterized LOC105 | lncRNA | 3 | 1 | 4 | 2 | 0.490 |
| 105378688 | XR_947283 | **LOC105378688** | uncharacterized LOC105 | lncRNA | 2 | 2 | 3 | 3 | 0.812 |
| 105378690 | XR_001738032,XR_ | **LOC105378690** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378691 | XR_947287 | **LOC105378691** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.843 |
| 105378693 | XR_947289,XR_947 | **LOC105378693** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378694 | XR_001738037,XR_ | **LOC105378694** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378696 | NM_001357063,XM_ | **TMEM275** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378697 | XR_947297 | **LOC105378697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378698 | XR_947298 | **LOC105378698** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.130 |
| 105378699 | XR_947299 | **LOC105378699** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378701 | XR_001738039,XR_ | **LOC105378701** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.704 |
| 105378706 | XR_001738042,XR_ | **LOC105378706** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378708 | XR_947311 | **LOC105378708** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378709 | XR_001738044,XR_ | **LOC105378709** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378710 | XR_947314 | **LOC105378710** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378711 | XR_947315 | **LOC105378711** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378712 | XR_001737634,XR_ | **LINC02808** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378714 | XR_947325 | **LOC105378714** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378715 | XR_001737632,XR_ | **FAF1-AS1** | FAF1 antisense RNA 1, t | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378716 | NR_147076 | **LINC01562** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378717 | XR_947337 | **LOC105378717** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378719 | XR_947339 | **LOC105378719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378720 | XR_001737635,XR_ | **EPS15-AS1** | EPS15 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.085 |
| 105378721 | XR_947342 | **LOC105378721** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 105378723 | XR_001738047,XR_ | **LOC105378723** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378724 | XR_947346,XR_947 | **LOC105378724** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378726 | XR_001738049,XR_ | **LOC105378726** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.989 |
| 105378728 | XR_947354,XR_947 | **LOC105378728** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378730 | XR_947362 | **LOC105378730** | uncharacterized LOC105 | lncRNA | 5 | 6 | 6 | 7 | 1.111 |
| 105378731 | XR_001738057 | **LOC105378731** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378732 | NR_131923 | **LINC01771** | long intergenic non-prote | lncRNA | 7 | 8 | 8 | 9 | 1.177 |
| 105378733 | XR_947371 | **LOC105378733** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378734 | XR_947372 | **LINC02784** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378735 | XR_947373,XR_947 | **LOC105378735** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378736 | XR_947375,XR_947 | **LOC105378736** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378737 | XR_001738067,XR_ | **LOC105378737** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378738 | NR_147161 | **LINC01755** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378739 | NR_147162 | **LINC01753** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378740 | XR_947380 | **LOC105378740** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378741 | XR_001738063,XR_ | **LOC105378741** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378744 | NR_147163 | **LINC01767** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378745 | XR_002958537 | **LOC105378745** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.159 |
| 105378746 | XR_001737657,XR_ | **LOC105378746** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378747 | XR_001737653,XR_ | **LOC105378747** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378748 | XR_001737649,XR_ | **LOC105378748** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378751 | XR_001738079,XR_ | **LOC105378751** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 105378753 | XR_001738077,XR_ | **LINC02777** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.062 |
| 105378756 | XR_001738082,XR_ | **LOC105378756** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105378758 | XR_947426,XR_947 | **LOC105378758** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378760 | XR_947430 | **LINC02778** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378761 | XR_947431 | **LOC105378761** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378763 | NR_146508 | **LINC01748** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378764 | XR_947440,XR_947 | **LOC105378764** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378766 | XR_001738094 | **LOC105378766** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378768 | XR_947449 | **LOC105378768** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378769 | NR_146605,NR_146 | **LINC01739** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378770 | XR_947454 | **LOC105378770** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378771 | XR_947456,XR_947 | **LOC105378771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378772 | XR_947458 | **LOC105378772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378773 | XR_947459 | **LOC105378773** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378774 | XR_947460 | **LOC105378774** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378776 | XR_947467 | **LOC105378776** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378779 | XR_947470 | **LOC105378779** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 105378780 | XR_947474 | **LOC105378780** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378781 | XR_001738103 | **LOC105378781** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378782 | XR_947476 | **LOC105378782** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378783 | XR_947477,XR_947 | **LOC105378783** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378785 | NR_146608 | **LINC01707** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378786 | XR_001738105,XR_ | **LINC02791** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378787 | XR_947486 | **LOC105378787** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378788 | NR_147164 | **LINC01758** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378789 | XR_001738106,XR_ | **LOC105378789** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378790 | XR_947491 | **LOC105378790** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378792 | XR_001738107,XR_ | **LRRC7-AS1** | LRRC7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378793 | XR_947499 | **LOC105378793** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.176 |
| 105378794 | XR_947500,XR_947 | **LOC105378794** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378795 | XR_001737668,XR_ | **LOC105378795** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378796 | XR_001737672,XR_ | **LOC105378796** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378797 | XR_001737670,XR_ | **LOC105378797** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378798 | XR_947510,XR_947 | **LOC105378798** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378799 | XR_001737674 | **LINC02797** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378800 | XR_947517 | **LOC105378800** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378801 | XR_947518 | **LOC105378801** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378802 | XR_001737793 | **LOC105378802** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378803 | NM_001364666,NM | **LRRC53** | leucine rich repeat conta | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378805 | XR_947520 | **LOC105378805** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378806 | XR_947521 | **LOC105378806** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378807 | XR_001738108 | **LOC105378807** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378808 | XR_001738109 | **LOC105378808** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.938 |
| 105378810 | XR_001738112,XR_ | **LOC105378810** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378811 | XR_947528,XR_947 | **LOC105378811** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378812 | XR_947530 | **LOC105378812** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378813 | XR_001738114,XR_ | **LOC105378813** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378814 | XR_947532,XR_947 | **LOC105378814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378816 | XR_001738120,XR_ | **LOC105378816** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378819 | XR_947544 | **LOC105378819** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.884 |
| 105378821 | XR_947548 | **LOC105378821** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378823 | XR_947550 | **LOC105378823** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378824 | XR_001738128,XR_ | **LINC02795** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378825 | XR_001738131,XR_ | **LOC105378825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378826 | XR_947556 | **LOC105378826** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378827 | XR_001738132,XR_ | **LOC105378827** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378828 | NR_135837,NR_135 | **CLCA4-AS1** | CLCA4 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 0.953 |
| 105378831 | XR_947560,XR_947 | **LOC105378831** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378833 | XR_001738133,XR_ | **LOC105378833** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.912 |
| 105378834 | XR_947565 | **LOC105378834** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.083 |
| 105378835 | XR_947566,XR_947 | **LOC105378835** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378836 | XR_947568 | **LOC105378836** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378838 | XR_947572 | **LOC105378838** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378839 | XR_947573 | **LOC105378839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378841 | XR_947575,XR_947 | **LOC105378841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 105378842 | XR_001737680,XR_ | **LOC105378842** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.061 |
| 105378843 | XR_947580 | **LOC105378843** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.033 |
| 105378844 | XR_001738135,XR_ | **LOC105378844** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.205 |
| 105378847 | XR_001738142 | **LOC105378847** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378848 | XR_947587 | **LOC105378848** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378849 | XR_947588 | **LOC105378849** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378850 | XR_001738147,XR_ | **LOC105378850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105378851 | XR_947591 | **LOC105378851** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378852 | XR_001737796,XR_ | **LINC02787** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378853 | NR_135038,NR_147 | **LINC02609** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.587 |
| 105378854 | NR_146610 | **LINC01763** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378855 | XR_947598 | **LINC02788** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378856 | XR_947599 | **LOC105378856** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378858 | XR_947603,XR_947 | **LOC105378858** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378859 | XR_001738158,XR_ | **LOC105378859** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378860 | XR_947608 | **LOC105378860** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378861 | XR_001738159,XR | **LOC105378861** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378863 | XR_947610 | **LOC105378863** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378864 | XR_947611,XR_947 | **LOC105378864** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378866 | XR_947617,XR_947 | **LOC105378866** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378867 | XR_001737686,XR_ | **LOC105378867** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378872 | XR_947644,XR_947 | **LINC01709** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378874 | XR_947651 | **LOC105378874** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378878 | XR_947655 | **LOC105378878** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378879 | XR_947656 | **LOC105378879** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378880 | XR_947657 | **LOC105378880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378881 | XR_947658 | **LOC105378881** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378882 | XR_947659 | **LOC105378882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378883 | XR_947660 | **LOC105378883** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378884 | NR_146609 | **LINC01677** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378885 | XR_947668,XR_947 | **LOC105378885** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378886 | XR_001738171 | **LOC105378886** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378887 | XR_947672,XR_947 | **LOC105378887** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378888 | XR_947675 | **LOC105378888** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378889 | NR_147165 | **LINC01661** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378890 | XR_001738175,XR | **LOC105378890** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.348 |
| 105378891 | XR_001738176,XR_ | **LOC105378891** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.126 |
| 105378892 | XR_947688 | **LOC105378892** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.815 |
| 105378893 | XR_001738179 | **LOC105378893** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378895 | XR_947692,XR_947 | **LOC105378895** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378897 | XR_947695 | **SLC6A17-AS1** | SLC6A17 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378898 | XR_001738181 | **LOC105378898** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378899 | XR_947699 | **LOC105378899** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378901 | XR_001737801 | **LOC105378901** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378903 | XR_947703 | **LOC105378903** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378904 | XR_001737802,XR_ | **LOC105378904** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378906 | XR_947706,XR_947 | **LOC105378906** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378909 | XR_001738189,XR_ | **LINC02884** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378910 | XR_947713,XR_947 | **LOC105378910** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378911 | XR_001738191,XR_ | **LOC105378911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378912 | XR_947716,XR_947 | **LINC01357** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378913 | XR_001738195,XR_ | **LOC105378913** | uncharacterized LOC105 | lncRNA | 2 | 1 | 3 | 2 | 0.735 |
| 105378914 | XR_947719 | **LOC105378914** | uncharacterized LOC105 | lncRNA | 0 | 1 | 1 | 2 | 1.661 |
| 105378915 | XR_947720,XR_947 | **LOC105378915** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378916 | XR_947722 | **LINC01765** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.030 |
| 105378918 | XR_947725,XR_947 | **LOC105378918** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378919 | XR_947727 | **LOC105378919** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378920 | XR_001738197,XR_ | **LOC105378920** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378924 | XR_947737 | **LOC105378924** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378925 | XR_947739,XR_947 | **LOC105378925** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378926 | XR_947741 | **LOC105378926** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378927 | XR_001737804,XR_ | **LOC105378927** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378929 | XR_947744 | **LOC105378929** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378930 | XR_947745,XR_947 | **LOC105378930** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378933 | NR_135034,NR_135 | **LOC105378933** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378934 | NR_146623 | **LINC01780** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378935 | XR_947755 | **LOC105378935** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378936 | XR_947756 | **LOC105378936** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378937 | XR_947757 | **LOC105378937** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378938 | XR_947758,XR_947 | **LOC105378938** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378939 | XR_947764 | **LOC105378939** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378940 | XR_947765 | **LOC105378940** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378941 | XR_001737691 | **LOC105378941** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378943 | XR_947770 | **LOC105378943** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378944 | XR_947771 | **LOC105378944** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378947 | XM_011542538 | **LOC105378947** | proline-rich extensin-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378948 | NR_168432,NR_168 | **LOC105378948** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.183 |
| 105378949 | NR_168263,NR_168 | **LOC105378949** | collagen alpha-2(VIII) ch | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 105378951 | XR_001738003,XR_ | **LOC105378951** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 0.826 |
| 105378952 | NM_001358438 | **KLF18** | Kruppel like factor 18 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378954 | XR_002958577 | **LOC105378954** | uncharacterized LOC105 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.993 |
| 105378956 | XR_001748415,XR_ | **LOC105378956** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378959 | XR_948315 | **LOC105378959** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378960 | NR_147166 | **LINC02118** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378961 | XR_948317,XR_948 | **LOC105378961** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378962 | XR_001742509 | **LOC105378962** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378963 | XR_001742658,XR_ | **LOC105378963** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 105378964 | XR_001742661,XR_ | **LOC105378964** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378965 | XR_001742511 | **LOC105378965** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378966 | NR_147167,NR_147 | **LINC02105** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378967 | XR_001742663 | **LOC105378967** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.055 |
| 105378968 | XR_001742664 | **LOC105378968** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 105378969 | XR_001742665,XR_ | **LOC105378969** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 105378971 | XR_001742512,XR_ | **LOC105378971** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.121 |
| 105378973 | XR_001742666 | **LOC105378973** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378975 | XR_948339 | **LOC105378975** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 105378976 | XR_948341 | **LOC105378976** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378977 | XR_948342 | **LOC105378977** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378978 | XR_948344 | **LOC105378978** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378979 | NM_001365184,XM | **LOC105378979** | growth/differentiation fac | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105378980 | XR_948347 | **LOC105378980** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378983 | XR_948350 | **LOC105378983** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378984 | XR_948351,XR_948 | **LOC105378984** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378988 | XR_001742413 | **LOC105378988** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378991 | XR_001742670 | **ERCC8-AS1** | ERCC8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378992 | NR_146624 | **LINC02057** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378993 | XR_948365 | **LOC105378993** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378994 | XR_948366 | **LOC105378994** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378995 | XR_948369 | **LOC105378995** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378997 | XR_001742493 | **LOC105378997** | basic proline-rich protein | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378998 | XR_001742671,XR_ | **LOC105378998** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105378999 | XR_948375 | **LOC105378999** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379002 | XR_948378 | **LOC105379002** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379003 | XR_001742683,XR_ | **LOC105379003** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379004 | XR_948385 | **LOC105379004** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379005 | XR_001742686,XR_ | **LOC105379005** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379006 | NR_147169 | **LINC02242** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379007 | XR_002956213,XR_ | **LOC105379007** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379010 | XR_001742701,XR_ | **LOC105379010** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379011 | XR_001742693,XR_ | **LOC105379011** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379012 | XR_001742708,XR_ | **LOC105379012** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379013 | XR_001742706,XR_ | **LOC105379013** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.026 |
| 105379014 | XR_948414 | **LOC105379014** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379015 | XR_948415 | **LOC105379015** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379016 | XR_948416,XR_948 | **LOC105379016** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.983 |
| 105379020 | XR_948429 | **LOC105379020** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 105379021 | XR_948435,XR_948 | **LOC105379021** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 105379025 | XR_001742722,XR_ | **LOC105379025** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379026 | XR_948453 | **LOC105379026** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379027 | XR_001742514 | **LOC105379027** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379028 | XR_001742725,XR_ | **LOC105379028** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379030 | NR_134252 | **LOC105379030** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379031 | XR_948470 | **LOC105379031** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105379033 | NR_146627 | **LINC02230** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379034 | XR_001742745,XR_ | **LOC105379034** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379035 | XR_948476 | **LOC105379035** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379036 | XR_948477,XR_948 | **LINC02122** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379039 | XR_001742747,XR_ | **LOC105379039** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379040 | XR_948485 | **LOC105379040** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379041 | XR_948490 | **LOC105379041** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379042 | XR_001742750 | **LOC105379042** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379047 | XR_948497,XR_948 | **LOC105379047** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379048 | XR_948500 | **LOC105379048** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379050 | XR_948503,XR_948 | **LOC105379050** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379051 | XR_001742769,XR_ | **LOC105379051** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379052 | XR_001742772,XR_ | **LOC105379052** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 105379053 | XR_948511 | **LOC105379053** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379054 | NR_136215 | **VCAN-AS1** | VCAN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379055 | XR_001742777,XR_ | **LOC105379055** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379057 | XR_001742779,XR_ | **EDIL3-DT** | EDIL3 divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379059 | XR_948528 | **LOC105379059** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379061 | XR_001742522 | **LOC105379061** | uncharacterized LOC105 | lncRNA | 2 | 0 | 3 | 1 | 0.329 |
| 105379062 | XR_948532 | **LOC105379062** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379063 | XR_948533 | **LOC105379063** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379064 | XR_001742789,XR_ | **LOC105379064** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379065 | XR_948539,XR_948 | **LOC105379065** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.925 |
| 105379066 | XR_948542,XR_948 | **LOC105379066** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379069 | XR_002956219 | **LINC02144** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379070 | XR_948547 | **LOC105379070** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379073 | XR_001742436 | **LOC105379073** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379074 | XR_001742437 | **LOC105379074** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379076 | XR_948556,XR_948 | **LINC02161** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379077 | XR_001742802 | **LOC105379077** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379078 | XR_001742803,XR_ | **LOC105379078** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379080 | XR_001742805,XR_ | **LOC105379080** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379082 | XR_001742809,XR_ | **LOC105379082** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379083 | XR_948569 | **LOC105379083** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379085 | XR_948575,XR_948 | **LOC105379085** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379086 | XR_001742444 | **LOC105379086** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379087 | XR_001742440,XR_ | **LOC105379087** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379089 | XR_001742812,XR_ | **LOC105379089** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379090 | XR_948588 | **LOC105379090** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379091 | XR_001742813 | **LOC105379091** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379094 | XR_001742450,XR_ | **LOC105379094** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379096 | XR_001742447 | **LOC105379096** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379098 | NR_146477 | **LINC01846** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379099 | XR_001742818 | **LOC105379099** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379100 | XR_001742823,XR_ | **LOC105379100** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379101 | XR_948627 | **LOC105379101** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379102 | XR_001742829,XR_ | **LOC105379102** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379104 | XR_948630,XR_948 | **LOC105379104** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379105 | XR_948633 | **LOC105379105** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379107 | XR_001742830,XR_ | **LOC105379107** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379109 | XR_948638,XR_948 | **LOC105379109** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379110 | XR_948649,XR_948 | **LOC105379110** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379111 | XR_948651 | **LOC105379111** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379114 | XR_948654 | **LOC105379114** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379117 | XR_001742838,XR_ | **LOC105379117** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379118 | XR_001742839 | **LOC105379118** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379119 | XR_948666,XR_948 | **LOC105379119** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379121 | XR_948669,XR_948 | **LOC105379121** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379122 | XR_948673 | **LOC105379122** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379123 | XR_948675,XR_948 | **LOC105379123** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.215 |
| 105379126 | XR_948679 | **LOC105379126** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379127 | XR_948680 | **LOC105379127** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379129 | XR_948683,XR_948 | **LOC105379129** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379130 | XR_001742844,XR_ | **LOC105379130** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379132 | NR_147170 | **SEMA6A-AS2** | SEMA6A antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379133 | XR_001742854,XR_ | **LOC105379133** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379134 | XR_948690 | **LOC105379134** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379135 | XR_948691 | **LOC105379135** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379136 | XR_948692 | **LOC105379136** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379137 | XR_948693,XR_948 | **LOC105379137** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379138 | XR_948695 | **LOC105379138** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379139 | XR_948696 | **LOC105379139** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379141 | XR_002956253 | **LINC02216** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379143 | NR_134249,NR_134 | **LOC105379143** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379144 | XR_948706,XR_948 | **LOC105379144** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379147 | XR_948710 | **LOC105379147** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379148 | XR_001742863 | **LOC105379148** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379149 | XR_001742862,XR_ | **LOC105379149** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379150 | XR_001742865 | **LOC105379150** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379151 | XR_948719 | **LOC105379151** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379152 | NR_146771 | **LOC105379152** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379154 | XR_948723 | **LOC105379154** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379155 | XR_001742872 | **LOC105379155** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379156 | XR_948725,XR_948 | **LOC105379156** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379157 | XR_948727 | **LOC105379157** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379158 | XR_001742529,XR_ | **LOC105379158** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379162 | XR_001742530,XR_ | **LOC105379162** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379163 | XR_001742877,XR_ | **LOC105379163** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379164 | XR_002956226 | **LOC105379164** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379167 | XR_948767,XR_948 | **LOC105379167** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379168 | XR_001742460 | **LOC105379168** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379169 | XR_948775 | **LOC105379169** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379170 | XR_001742467,XR_ | **LOC105379170** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379171 | XR_001742880 | **LOC105379171** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379172 | XR_948780,XR_948 | **LOC105379172** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379173 | XR_002956227 | **LOC105379173** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 105379174 | XR_001742531,XR_ | **LOC105379174** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379176 | NR_134248 | **LOC105379176** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379178 | XR_948792 | **LOC105379178** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379179 | XR_948793 | **LOC105379179** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379180 | XR_002956228,XR_ | **CTB-3M24.3** | uncharacterized CTB-3M | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379181 | XR_001742887 | **CTB-49A3.2** | uncharacterized CTB-49/ | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379182 | XR_001742888,XR_ | **LOC105379182** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379183 | NR_134247 | **LOC105379183** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379185 | XR_001742889,XR_ | **LOC105379185** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379188 | XR_948807 | **LOC105379188** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379189 | XR_001742895,XR_ | **LOC105379189** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379191 | XR_948811 | **CTB-1I21.1** | uncharacterized CTB-1I2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379192 | NR_134246 | **LOC105379192** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379193 | XR_001742899,XR_ | **LOC105379193** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379194 | NR_134244,NR_134 | **LOC105379194** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.860 |
| 105379195 | XR_001742901 | **LOC105379195** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379196 | gene-LOC10537919 | **LOC105379196** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105379198 | XM_024446287 | **LOC105379198** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105379199 | XR_002956224,XR_ | **LOC105379199** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379202 | XR_001751734 | **FAM30B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379203 | XR_948830,XR_948 | **LOC105379203** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379205 | XR_001751426,XR_ | **LOC105379205** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379207 | XR_948845 | **LOC105379207** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379208 | XR_001751427,XR_ | **LOC105379208** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379215 | XR_948904,XR_948 | **LOC105379215** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379216 | XR_948908 | **LOC105379216** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379219 | NR_147089 | **FAM85B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379220 | gene-LOC10537922 | **LOC105379220** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105379222 | XR_002956678,XR_ | **LOC105379222** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379224 | XR_948924,XR_948 | **LOC105379224** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105379225 | XR_948927 | **LOC105379225** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379227 | XR_002956680 | **LOC105379227** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379228 | XR_948934,XR_948 | **LOC105379228** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379230 | XR_002956681,XR_ | **LOC105379230** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379231 | XR_002956685,XR_ | **LOC105379231** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379234 | XR_002956686 | **LOC105379234** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379237 | XR_002956671 | **LOC105379237** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379241 | XR_948955,XR_948 | **LOC105379241** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379242 | XR_002956695,XR_ | **LOC105379242** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379243 | XR_948962 | **LOC105379243** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379244 | XR_001745645 | **LOC105379244** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379245 | XR_001745644 | **LOC105379245** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379246 | XR_948965,XR_948 | **LOC105379246** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379249 | XR_948988 | **LOC105379249** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379250 | XR_948993 | **LOC105379250** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 105379251 | XR_001746684,XR_ | **LOC105379251** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 105379252 | NR_136310 | **LOC105379252** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 105379255 | XR_001746514,XR_ | **LOC105379255** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379257 | XR_949011 | **LOC105379257** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379263 | XR_001746493,XR_ | **LOC105379263** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.028 |
| 105379264 | XR_949065 | **LOC105379264** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379265 | XR_949066 | **LOC105379265** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379266 | XR_949068 | **LOC105379266** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379267 | XR_949069 | **LOC105379267** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379268 | NR_145468 | **FAM197Y8** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379269 | NR_145460 | **FAM197Y7** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379270 | NR_145469 | **FAM197Y6** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379273 | XR_002958840 | **LOC105379273** | uncharacterized LOC105 | lncRNA | 3 | 2 | 4 | 3 | 0.745 |
| 105379278 | XR_001749751,XR_ | **LOC105379278** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379283 | XR_949295 | **LOC105379283** | uncharacterized LOC105 | lncRNA | 4 | 3 | 5 | 4 | 0.729 |
| 105379289 | XR_949509 | **LOC105379289** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379292 | XR_949518 | **LOC105379292** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379297 | XR_949524,XR_949 | **LOC105379297** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379300 | XR_949536,XR_949 | **LOC105379300** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379301 | XR_001745648,XR_ | **LOC105379301** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379303 | XR_949546 | **LOC105379303** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379306 | XR_949550 | **LOC105379306** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379308 | XR_949557 | **LOC105379308** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379309 | XR_001745699 | **LOC105379309** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379310 | XR_949559 | **LOC105379310** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379311 | XR_949560 | **LOC105379311** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379312 | XR_949563 | **LOC105379312** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379314 | XR_949565,XR_949 | **LOC105379314** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379315 | XR_949569 | **LOC105379315** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379316 | XR_949571 | **LOC105379316** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379318 | XR_001745824,XR_ | **LOC105379318** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379321 | XR_001745832 | **LOC105379321** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379322 | XR_949580 | **LOC105379322** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379325 | XR_949584 | **LOC105379325** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379326 | XR_001745836,XR_ | **LOC105379326** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.829 |
| 105379327 | XR_949586 | **LOC105379327** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379328 | XR_949589 | **LOC105379328** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379329 | XR_002956697 | **LOC105379329** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379330 | XR_949591 | **LOC105379330** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379331 | NR_159962 | **LOC105379331** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379332 | XR_949594 | **LOC105379332** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379333 | XR_949596 | **LOC105379333** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379335 | XR_949598,XR_949 | **LOC105379335** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379336 | XR_001745850,XR_ | **LOC105379336** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379337 | XR_949603 | **LOC105379337** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379339 | XR_949605 | **LOC105379339** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379340 | XR_949607 | **LOC105379340** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379342 | XR_001745855,XR_ | **LOC105379342** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379343 | XR_949614 | **LOC105379343** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379346 | XR_001745858 | **LOC105379346** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 105379349 | XR_949623 | **LOC105379349** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379350 | XR_001745859 | **LOC105379350** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379351 | XR_001745861 | **LOC105379351** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379352 | XR_001745862,XR_ | **LOC105379352** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379354 | XR_949629,XR_949 | **LOC105379354** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379355 | XR_949634 | **LOC105379355** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.584 |
| 105379356 | XM_017014155,XM_ | **LOC105379356** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 0.932 |
| 105379357 | XR_949636 | **LOC105379357** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379358 | XR_001745863,XR_ | **LOC105379358** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379360 | XR_001745704 | **LOC105379360** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379361 | XR_949651 | **LOC105379361** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379362 | XR_949653,XR_949 | **LOC105379362** | uncharacterized LOC105 | lncRNA | 5 | 5 | 6 | 6 | 1.031 |
| 105379363 | XR_949657,XR_949 | **LOC105379363** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379364 | XR_002956701 | **LOC105379364** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379365 | XR_949660 | **LOC105379365** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379366 | XR_001745705 | **LOC105379366** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379368 | XR_949663 | **LOC105379368** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379369 | XR_949664,XR_949 | **LOC105379369** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379370 | XR_949667 | **LOC105379370** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379371 | XR_949668 | **LOC105379371** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379375 | XR_949672 | **LOC105379375** | uncharacterized LOC105 | lncRNA | 16 | 16 | 17 | 17 | 1.031 |
| 105379376 | XR_949673,XR_949 | **LOC105379376** | uncharacterized LOC105 | lncRNA | 1 | 0 | 2 | 1 | 0.645 |
| 105379377 | XR_949675 | **LOC105379377** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379378 | XR_949681 | **LOC105379378** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379379 | XR_002956705,XR_ | **LOC105379379** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379380 | XR_949685 | **LOC105379380** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379381 | XR_949686 | **LOC105379381** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379382 | XR_949687 | **LOC105379382** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 105379383 | XR_949689 | **LOC105379383** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379384 | XR_949692,XR_949 | **LOC105379384** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379385 | XR_002956706,XR_ | **LOC105379385** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379386 | XR_949698 | **LINC02866** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379388 | XR_949701 | **LOC105379388** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379389 | XR_949703 | **LOC105379389** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379390 | XR_949704 | **LOC105379390** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379391 | XR_949705 | **LOC105379391** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379392 | XR_001745883,XR_ | **LOC105379392** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379393 | NR_136589 | **LOC105379393** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379395 | XR_949714 | **LOC105379395** | uncharacterized LOC105 | lncRNA | 1 | 1 | 2 | 2 | 1.262 |
| 105379396 | XR_001745886,XR_ | **LOC105379396** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379397 | XR_949719,XR_949 | **LOC105379397** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379403 | XR_001741802 | **LOC105379403** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379404 | XR_001741421 | **LOC105379404** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379406 | XR_950238 | **LOC105379406** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379407 | XR_950273 | **LINC02747** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379409 | XR_950280 | **LOC105379409** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379412 | XR_001741852 | **LOC105379412** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379413 | XR_001755770,XR_ | **LOC105379413** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.874 |
| 105379414 | XR_950578,XR_951 | **LOC105379414** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379418 | XR_950596,XR_950 | **LOC105379418** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379427 | gene-ZNF73P | **ZNF73P** | zinc finger protein 73, ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105379428 | XR_001755412,XR_ | **LOC105379428** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379434 | XR_950632 | **LOC105379434** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379435 | XR_950634 | **LOC105379435** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379437 | XR_950637,XR_950 | **LOC105379437** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379438 | XR_950645 | **FAM242E** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379439 | XR_950650 | **LOC105379439** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379442 | XR_001746511,XR_ | **LOC105379442** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379443 | NR_160670,NR_160 | **LOC105379443** | methylenetetrahydrofolat | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105379444 | XR_950677 | **LOC105379444** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.328 |
| 105379445 | XR_002956869 | **LOC105379445** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 105379446 | XR_950679 | **LOC105379446** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379447 | XR_950680 | **LOC105379447** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379448 | XR_950683,XR_950 | **LOC105379448** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379450 | NR_135122 | **LOC105379450** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379451 | XR_950691 | **LOC105379451** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379452 | XR_950692 | **LOC105379452** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379453 | XR_950695 | **LOC105379453** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379457 | XR_001741913 | **LOC105379457** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379460 | XR_950879 | **LOC105379460** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379461 | XR_001752103 | **LOC105379461** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379464 | XR_950970 | **LOC105379464** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379466 | XR_951012 | **LOC105379466** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379473 | XM_011546043 | **LOC105379473** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105379474 | XM_011546044 | **LOC105379474** | uncharacterized LOC105 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 105379475 | XR_951054 | **LOC105379475** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379476 | XR_002958556,XR_ | **LOC105379476** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379477 | NR_134504 | **LOC105379477** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379478 | NR_133643 | **FAM242B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379479 | gene-DUX4L34 | **DUX4L34** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105379481 | XR_951069 | **LOC105379481** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379482 | gene-LOC10537948 | **LOC105379482** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 105379484 | XR_951076 | **LOC105379484** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379487 | XR_951086 | **LINC01670** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.949 |
| 105379488 | XR_951088 | **LOC105379488** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379489 | XR_951089 | **LOC105379489** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379490 | XR_951092 | **LOC105379490** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.039 |
| 105379491 | XR_951108 | **LOC105379491** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379493 | XR_001755117,XR_ | **CH507-145C22.1** | uncharacterized CH507- | lncRNA | 3 | 2 | 4 | 3 | 0.928 |
| 105379497 | XR_951133 | **LOC105379497** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379499 | XR_001755120,XR_ | **LOC105379499** | uncharacterized LOC105 | lncRNA | 5 | 4 | 6 | 5 | 0.905 |
| 105379501 | XR_951141 | **LOC105379501** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379502 | XR_951145 | **LOC105379502** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379503 | XR_951146 | **LOC105379503** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379504 | XR_001754936,XR_ | **LOC105379504** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 105379505 | XR_951148 | **LOC105379505** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379506 | XR_951149 | **LOC105379506** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.302 |
| 105379507 | XR_951150 | **LOC105379507** | uncharacterized LOC105 | lncRNA | 2 | 3 | 3 | 4 | 1.271 |
| 105379508 | XR_951151 | **LOC105379508** | uncharacterized LOC105 | lncRNA | 2 | 4 | 3 | 5 | 1.318 |
| 105379511 | NR_135512 | **NCOR1P4** | NCOR1 pseudogene 4 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 105379513 | XR_001754950 | **LOC105379513** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379514 | NR_135513 | **LOC105379514** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379516 | XR_951179 | **LOC105379516** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379518 | XR_951228 | **LOC105379518** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379574 | XR_001737761 | **LOC105379574** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 105379585 | XR_001745759 | **LOC105379585** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379586 | XR_001745758 | **LOC105379586** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379599 | XR_001753074 | **LOC105379599** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 105379613 | XR_001749379 | **LOC105379613** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379623 | XR_001742418,XR_ | **LOC105379623** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.989 |
| 105379638 | XR_001742595 | **LOC105379638** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379640 | XR_001742613 | **LOC105379640** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379641 | XR_002956331,XR_ | **LOC105379641** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379675 | XR_001742452,XR_ | **LOC105379675** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379695 | NR_149095 | **IER3-AS1** | IER3 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.088 |
| 105379712 | XR_001744457 | **LOC105379712** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379719 | XR_001745081 | **LOC105379719** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.339 |
| 105379720 | XR_002956541 | **LOC105379720** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379725 | XR_001745184 | **LOC105379725** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379743 | XR_001745313 | **LOC105379743** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379749 | XR_001745389,XR_ | **LOC105379749** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379752 | XM_017012937 | **LOC105379752** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.013 |
| 105379771 | XR_001745706 | **LOC105379771** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379772 | XR_001737618 | **LOC105379772** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379778 | XR_001738041 | **LINC02794** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 105379807 | NR_144466 | **LOC105379807** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379814 | XR_001746478,XR_ | **LOC105379814** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 105379825 | XR_001737799 | **LOC105379825** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379827 | XR_001738164 | **LOC105379827** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379829 | XR_001746828 | **LOC105379829** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379839 | XR_001746924 | **LOC105379839** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.080 |
| 105379841 | XR_001746951,XR_ | **LOC105379841** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379850 | XR_001747278 | **LOC105379850** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379857 | XR_001747440 | **LOC105379857** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379869 | XR_001747538 | **LOC105379869** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379880 | XR_001748097 | **LOC105379880** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105379882 | XR_001748122 | **LOC105379882** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105416157 | NR_131157 | **NKILA** | NF-kappaB interacting lr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105447645 | NR_131188 | **LOC105447645** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.828 |
| 105447646 | NR_148381 | **PNKY** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105447648 | NR_131191 | **LINC02130** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105463123 | NR_131204 | **XACT** | X active specific transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105500239 | NR_131213 | **XLOC_007697** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105500240 | NR_131215 | **XLOC_009911** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105616916 | NR_131226 | **LINC01455** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105616981 | NR_131227 | **B3GALT1-AS1** | B3GALT1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105616982 | NR_131229 | **LINC01047** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105664404 | NR_131252 | **WSPAR** | WNT signaling pathway | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105667213 | NR_131768 | **LINC01601** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105682749 | NR_131782 | **CCEPR** | cervical carcinoma expre | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105747689 | NR_131917 | **NABP1-OT1** | uncharacterized LOC105 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 105748977 | NR_131925 | **LINC01693** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105751187 | NR_131938,NR_13 | **LRP1-AS** | LRP1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105755953 | NR_131944 | **LINC02676** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105755954 | NR_131950,NR_13 | **ADGRD1-AS1** | ADGRD1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 105827617 | NR_131984 | **LINC02563** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106029310 | NR_147172,NR_14 | **DANT1** | DXZ4 associated non-co | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144526 | NR_132363,NR_13 | **PLA2G4C-AS1** | PLA2G4C antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144529 | NR_132366 | **GRPEL2-AS1** | GRPEL2 antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.947 |
| 106144531 | NR_132367 | **LINC00374** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144532 | NR_132369,NR_13 | **ARF4-AS1** | ARF4 antisense RNA 1 | lncRNA | 2 | 2 | 3 | 3 | 1.033 |
| 106144533 | NR_132371 | **LINC00430** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144535 | NR_132374 | **LINC01037** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144536 | NR_132375 | **LINC01078** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144537 | NR_132376 | **LINC01173** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144538 | NR_132377 | **KCNK15-AS1** | KCNK15 and WISP2 ant | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144541 | NR_149082 | **LINC00407** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144568 | NR_132378 | **LINC01381** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144584 | NR_149081 | **LINC01290** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144585 | NR_132381 | **LINC01318** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144586 | XR_926374,XR_926 | **LINC01394** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144593 | NR_132382 | **NOP53-AS1** | NOP53 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144598 | NR_149078 | **FARSA-AS1** | FARSA antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144599 | NR_149076 | **LINC01259** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144607 | NR_149075 | **LINC01074** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106144608 | NR_145483 | **LINC00976** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106146148 | NR_132385 | **PSLNR** | prostate enriched lncRN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106146149 | NR_132393 | **LINC01613** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106182118 | NR_149074 | **LIMS1-AS1** | LIMS1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106182249 | NR_132442 | **LUADT1** | lung adenocarcinoma as | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106456574 | NR_132652 | **LINC01616** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106478912 | gene-RNU6-41P | **RNU6-41P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478913 | gene-RNU6-5P | **RNU6-5P** | RNA, U6 small nuclear 5 | pseudogene | 11 | 12 | 12 | 13 | 1.071 |
| 106478914 | gene-RNU6-4P | **RNU6-4P** | RNA, U6 small nuclear 4 | pseudogene | 7 | 9 | 8 | 10 | 1.247 |
| 106478915 | gene-RNU6-11P | **RNU6-11P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 0.939 |
| 106478916 | gene-RNU6-18P | **RNU6-18P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478917 | gene-RNU6-22P | **RNU6-22P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 106478918 | gene-RNU6-27P | **RNU6-27P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478919 | gene-RNU6-3P | **RNU6-3P** | RNA, U6 small nuclear 3 | pseudogene | 8 | 11 | 9 | 12 | 1.326 |
| 106478920 | gene-RNU6-37P | **RNU6-37P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 0.825 |
| 106478921 | gene-RNU6-43P | **RNU6-43P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478922 | gene-RNU6-44P | **RNU6-44P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478923 | gene-RNU6-49P | **RNU6-49P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478934 | gene-HSFY5P | **HSFY5P** | heat shock transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478937 | gene-TPM3P3 | **TPM3P3** | tropomyosin 3 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478956 | NR_133647 | **MDC1-AS1** | MDC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106478957 | NR_133674,NR_13 | **DDX39B-AS1** | DDX39B antisense RNA | lncRNA | 1 | 1 | 2 | 2 | 0.982 |
| 106478961 | gene-ATP6V0CP2 | **ATP6V0CP2** | ATPase H+ transporting | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478968 | NR_133682 | **TRPC7-AS2** | TRPC7 antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106478970 | NR_133658 | **HTR3E-AS1** | HTR3E antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106478984 | gene-RNY3P1 | **RNY3P1** | RNY3 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478986 | gene-RNU6-54P | **RNU6-54P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478991 | NR_133664 | **LINC00449** | long intergenic non-prote | lncRNA | 2 | 1 | 3 | 2 | 0.724 |
| 106478992 | gene-RNA5SP50 | **RNA5SP50** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478993 | gene-RNA5SP99 | **RNA5SP99** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106478997 | gene-RNA5SP172 | **RNA5SP172** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479000 | gene-RNA5SP226 | **RNA5SP226** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479007 | gene-RNA5SP335 | **RNA5SP335** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479009 | gene-RNA5SP355 | **RNA5SP355** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479010 | gene-RNA5SP376 | **RNA5SP376** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479011 | gene-RNA5SP377 | **RNA5SP377** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479017 | gene-RNA5SP473 | **RNA5SP473** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479021 | gene-CHEK2P4 | **CHEK2P4** | checkpoint kinase 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479022 | gene-CHEK2P5 | **CHEK2P5** | checkpoint kinase 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479023 | NR_160940,NR_16 | **H3P4** | H3 histone pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 106479027 | gene-KRT18P56 | **KRT18P56** | keratin 18 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479030 | gene-WBP1LP7 | **WBP1LP7** | WBP1L pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479031 | gene-WBP1LP3 | **WBP1LP3** | WBP1L pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479047 | gene-EFCAB14P1 | **EFCAB14P1** | EF-hand calcium binding | pseudogene | 0 | 0 | 1 | 1 | 0.945 |
| 106479050 | gene-KSR1P1 | **KSR1P1** | kinase suppressor of ras | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479053 | gene-MED28P5 | **MED28P5** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479066 | gene-RNU7-106P | **RNU7-106P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479089 | gene-RNU7-171P | **RNU7-171P** | RNA, U7 small nuclear 1 | pseudogene | 0 | 3 | 1 | 4 | 3.708 |
| 106479116 | gene-RN7SKP48 | **RN7SKP48** | RN7SK pseudogene 48 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479119 | gene-RN7SKP55 | **RN7SKP55** | RN7SK pseudogene 55 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479130 | gene-RN7SKP80 | **RN7SKP80** | RN7SK pseudogene 80 | pseudogene | 0 | 0 | 1 | 1 | 1.184 |
| 106479166 | gene-RN7SKP160 | **RN7SKP160** | RN7SK pseudogene 160 | pseudogene | 0 | 0 | 1 | 1 | 1.157 |
| 106479172 | gene-RN7SKP174 | **RN7SKP174** | RN7SK pseudogene 174 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479173 | gene-RN7SKP175 | **RN7SKP175** | RN7SK pseudogene 175 | pseudogene | 1 | 1 | 2 | 2 | 0.817 |
| 106479175 | gene-RN7SKP178 | **RN7SKP178** | RN7SK pseudogene 178 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479178 | gene-RN7SKP185 | **RN7SKP185** | RN7SK pseudogene 185 | pseudogene | 0 | 0 | 1 | 1 | 1.244 |
| 106479225 | gene-RN7SKP292 | **RN7SKP292** | RN7SK pseudogene 292 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479229 | gene-RN7SL11P | **RN7SL11P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479234 | gene-RN7SL26P | **RN7SL26P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479236 | gene-RN7SL33P | **RN7SL33P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479237 | gene-RN7SL36P | **RN7SL36P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479241 | gene-RN7SL43P | **RN7SL43P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479255 | gene-RN7SL87P | **RN7SL87P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479258 | gene-RN7SL97P | **RN7SL97P** | RNA, 7SL, cytoplasmic 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479262 | gene-RN7SL107P | **RN7SL107P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479267 | gene-RN7SL125P | **RN7SL125P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479273 | gene-RN7SL143P | **RN7SL143P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479274 | gene-RN7SL147P | **RN7SL147P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479282 | gene-RN7SL166P | **RN7SL166P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479286 | gene-RN7SL178P | **RN7SL178P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479292 | gene-RN7SL191P | **RN7SL191P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479301 | gene-RN7SL217P | **RN7SL217P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479303 | gene-RN7SL220P | **RN7SL220P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479304 | gene-RN7SL225P | **RN7SL225P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479305 | gene-RN7SL229P | **RN7SL229P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479306 | gene-RN7SL230P | **RN7SL230P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 0.935 |
| 106479307 | gene-RN7SL234P | **RN7SL234P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479317 | gene-RN7SL262P | **RN7SL262P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479323 | gene-RN7SL277P | **RN7SL277P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479335 | gene-RN7SL308P | **RN7SL308P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479336 | gene-RN7SL310P | **RN7SL310P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479343 | gene-RN7SL329P | **RN7SL329P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479349 | gene-RN7SL342P | **RN7SL342P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479354 | gene-RN7SL359P | **RN7SL359P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479355 | gene-RN7SL361P | **RN7SL361P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479356 | gene-RN7SL364P | **RN7SL364P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.232 |
| 106479362 | gene-RN7SL381P | **RN7SL381P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 1 | 0 | 2 | 1 | 0.527 |
| 106479367 | gene-RN7SL394P | **RN7SL394P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479368 | gene-RN7SL396P | **RN7SL396P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479384 | gene-RN7SL444P | **RN7SL444P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479395 | gene-RN7SL472P | **RN7SL472P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.193 |
| 106479396 | gene-RN7SL473P | **RN7SL473P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479402 | gene-RN7SL492P | **RN7SL492P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479403 | gene-RN7SL493P | **RN7SL493P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479408 | gene-RN7SL507P | **RN7SL507P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479413 | gene-RN7SL521P | **RN7SL521P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 1 | 1 | 2 | 1.614 |
| 106479414 | gene-RN7SL523P | **RN7SL523P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479417 | gene-RN7SL535P | **RN7SL535P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.137 |
| 106479419 | gene-RN7SL542P | **RN7SL542P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479420 | gene-RN7SL546P | **RN7SL546P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479422 | gene-RN7SL551P | **RN7SL551P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479424 | gene-RN7SL555P | **RN7SL555P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479427 | gene-RN7SL563P | **RN7SL563P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479436 | gene-RN7SL585P | **RN7SL585P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479437 | gene-RN7SL587P | **RN7SL587P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479440 | gene-RN7SL597P | **RN7SL597P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479442 | gene-RN7SL604P | **RN7SL604P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479444 | gene-RN7SL610P | **RN7SL610P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479448 | gene-RN7SL620P | **RN7SL620P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479454 | gene-RN7SL635P | **RN7SL635P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479457 | gene-RN7SL645P | **RN7SL645P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479464 | gene-RN7SL664P | **RN7SL664P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479468 | gene-RN7SL674P | **RN7SL674P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479482 | gene-RN7SL711P | **RN7SL711P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479488 | gene-RN7SL726P | **RN7SL726P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479492 | gene-RN7SL743P | **RN7SL743P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479496 | gene-RN7SL753P | **RN7SL753P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 1 | 0 | 2 | 1 | 0.630 |
| 106479502 | gene-RN7SL769P | **RN7SL769P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479504 | gene-RN7SL778P | **RN7SL778P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479506 | gene-RN7SL786P | **RN7SL786P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479511 | gene-RN7SL795P | **RN7SL795P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479514 | gene-RN7SL803P | **RN7SL803P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479522 | gene-RN7SL823P | **RN7SL823P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479524 | NR_144555 | **RN7SL832P** | RNA, 7SL, cytoplasmic 8 | transcribed_pseu | 1 | 1 | 2 | 2 | 1.091 |
| 106479530 | gene-RN7SL846P | **RN7SL846P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479535 | gene-RN7SL862P | **RN7SL862P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479545 | gene-RNU6ATAC6P | **RNU6ATAC6P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479546 | gene-RNU6ATAC7P | **RNU6ATAC7P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479555 | gene-RNU6ATAC28 | **RNU6ATAC28P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479558 | gene-RNU6ATAC37 | **RNU6ATAC37P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479559 | gene-RNU6ATAC38 | **RNU6ATAC38P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479564 | gene-RNU4-12P | **RNU4-12P** | RNA, U4 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479573 | gene-RNU4-36P | **RNU4-36P** | RNA, U4 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479578 | gene-RNU4-44P | **RNU4-44P** | RNA, U4 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479604 | gene-RNU6-86P | **RNU6-86P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479609 | gene-RNU6-98P | **RNU6-98P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479613 | gene-RNU6-106P | **RNU6-106P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479617 | gene-RNU6-115P | **RNU6-115P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 106479630 | gene-RNU6-145P | **RNU6-145P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479639 | gene-RNU6-164P | **RNU6-164P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479660 | gene-RNU6-211P | **RNU6-211P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479662 | gene-RNU6-216P | **RNU6-216P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479665 | gene-RNU6-222P | **RNU6-222P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479667 | gene-RNU6-225P | **RNU6-225P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479670 | gene-RNU6-234P | **RNU6-234P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479683 | gene-RNU6-263P | **RNU6-263P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479708 | gene-RNU6-317P | **RNU6-317P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479717 | gene-RNU6-340P | **RNU6-340P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479751 | gene-RNU6-419P | **RNU6-419P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479755 | gene-RNU6-429P | **RNU6-429P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479763 | gene-RNU6-445P | **RNU6-445P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479765 | gene-RNU6-451P | **RNU6-451P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479792 | gene-RNU6-509P | **RNU6-509P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479793 | gene-RNU6-511P | **RNU6-511P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479794 | gene-RNU6-516P | **RNU6-516P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479804 | gene-RNU6-537P | **RNU6-537P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479806 | gene-RNU6-540P | **RNU6-540P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479810 | gene-RNU6-549P | **RNU6-549P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479829 | gene-RNU6-595P | **RNU6-595P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479836 | gene-RNU6-611P | **RNU6-611P** | RNA, U6 small nuclear 6 | pseudogene | 2 | 1 | 3 | 2 | 0.634 |
| 106479844 | gene-RNU6-629P | **RNU6-629P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479858 | gene-RNU6-658P | **RNU6-658P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 1 | 1 | 2 | 1.175 |
| 106479890 | gene-RNU6-732P | **RNU6-732P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479892 | gene-RNU6-738P | **RNU6-738P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479895 | gene-RNU6-744P | **RNU6-744P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479907 | gene-RNU6-771P | **RNU6-771P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479918 | gene-RNU6-797P | **RNU6-797P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479929 | gene-RNU6-820P | **RNU6-820P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479931 | gene-RNU6-826P | **RNU6-826P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479933 | gene-RNU6-829P | **RNU6-829P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479934 | gene-RNU6-832P | **RNU6-832P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479938 | gene-RNU6-840P | **RNU6-840P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479955 | gene-RNU6-880P | **RNU6-880P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479959 | gene-RNU6-888P | **RNU6-888P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479960 | gene-RNU6-891P | **RNU6-891P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479988 | gene-RNU6-953P | **RNU6-953P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106479995 | gene-RNU6-972P | **RNU6-972P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480006 | gene-RNU6-994P | **RNU6-994P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480027 | gene-RNU6-1048P | **RNU6-1048P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480032 | gene-RNU6-1060P | **RNU6-1060P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480037 | gene-RNU6-1072P | **RNU6-1072P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480039 | gene-RNU6-1077P | **RNU6-1077P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480040 | gene-RNU6-1079P | **RNU6-1079P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480047 | gene-RNU6-1094P | **RNU6-1094P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480062 | gene-RNU6-1128P | **RNU6-1128P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480068 | gene-RNU6-1140P | **RNU6-1140P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480073 | gene-RNU6-1152P | **RNU6-1152P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.403 |
| 106480093 | gene-RNU6-1205P | **RNU6-1205P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480095 | gene-RNU6-1209P | **RNU6-1209P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 0.732 |
| 106480112 | gene-RNU6-1251P | **RNU6-1251P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480118 | gene-RNU6-1266P | **RNU6-1266P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480138 | gene-RNU6-1311P | **RNU6-1311P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480140 | gene-RNU6-1316P | **RNU6-1316P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480153 | gene-RPS4XP23 | **RPS4XP23** | ribosomal protein S4X ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480165 | gene-RNU1-56P | **RNU1-56P** | RNA, U1 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480169 | gene-RNU1-67P | **RNU1-67P** | RNA, U1 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480173 | gene-RNU1-77P | **RNU1-77P** | RNA, U1 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480176 | gene-RNU1-83P | **RNU1-83P** | RNA, U1 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480189 | gene-RNU1-117P | **RNU1-117P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480195 | gene-RNU1-138P | **RNU1-138P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480211 | gene-RNU2-33P | **RNU2-33P** | RNA, U2 small nuclear 3 | pseudogene | 1 | 0 | 2 | 1 | 0.663 |
| 106480213 | gene-RNU2-37P | **RNU2-37P** | RNA, U2 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 0.897 |
| 106480221 | gene-RNU2-56P | **RNU2-56P** | RNA, U2 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480222 | gene-RNU2-57P | **RNU2-57P** | RNA, U2 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480223 | gene-RNU2-59P | **RNU2-59P** | RNA, U2 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480227 | gene-RNU2-70P | **RNU2-70P** | RNA, U2 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480228 | gene-RNU2-71P | **RNU2-71P** | RNA, U2 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480229 | gene-MED15P8 | **MED15P8** | mediator complex subun | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480234 | gene-HNRNPA3P15 | **HNRNPA3P15** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480235 | gene-HNRNPA1P62 | **HNRNPA1P62** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.041 |
| 106480236 | gene-HNRNPA1P72 | **HNRNPA1P72** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480245 | gene-RPL17P51 | **RPL17P51** | ribosomal protein L17 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480253 | gene-KLF2P1 | **KLF2P1** | Kruppel like factor 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480254 | gene-HSPE1P6 | **HSPE1P6** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 0.974 |
| 106480255 | gene-HSPE1P9 | **HSPE1P9** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480256 | gene-HSPE1P13 | **HSPE1P13** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480257 | gene-HSPE1P18 | **HSPE1P18** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480258 | gene-HSPE1P21 | **HSPE1P21** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480260 | gene-HSPE1P25 | **HSPE1P25** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480266 | gene-COX6CP11 | **COX6CP11** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480269 | gene-COX6CP17 | **COX6CP17** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.023 |
| 106480277 | gene-EIF1P6 | **EIF1P6** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480290 | gene-SNRPCP5 | **SNRPCP5** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480291 | gene-SNRPCP16 | **SNRPCP16** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480292 | gene-SNRPCP20 | **SNRPCP20** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480298 | gene-NUTF2P3 | **NUTF2P3** | nuclear transport factor 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480300 | gene-LLPHP2 | **LLPHP2** | LLPH pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480302 | gene-MZT1P1 | **MZT1P1** | mitotic spindle organizing | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480303 | gene-PRR13P2 | **PRR13P2** | proline rich 13 pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480306 | gene-AKIRIN1P2 | **AKIRIN1P2** | akirin 1 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480309 | gene-RNY1P12 | **RNY1P12** | RNY1 pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.263 |
| 106480310 | gene-RNY1P13 | **RNY1P13** | RNY1 pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480315 | gene-RNY3P12 | **RNY3P12** | RNY3 pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480320 | gene-TMF1P1 | **TMF1P1** | TATA element modulator | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480325 | gene-WBP1LP8 | **WBP1LP8** | WBP1L pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480326 | gene-WBP1LP10 | **WBP1LP10** | WBP1L pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480327 | gene-WBP1LP12 | **WBP1LP12** | WBP1L pseudogene 12 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480330 | gene-BTG4P1 | **BTG4P1** | BTG anti-proliferation fac | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480332 | gene-BUD31P2 | **BUD31P2** | BUD31 homolog pseudo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480334 | NR_133911 | **BMS1P22** | BMS1 pseudogene 22 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 106480336 | gene-RPL23AP89 | **RPL23AP89** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480337 | gene-RPL23AP91 | **RPL23AP91** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480338 | gene-RPL23AP95 | **RPL23AP95** | ribosomal protein L23a p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480340 | gene-SEPTIN14P1 | **SEPTIN14P1** | septin 14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480341 | gene-SEPTIN14P8 | **SEPTIN14P8** | septin 14 pseudogene 8 | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 106480343 | gene-SEPTIN14P12 | **SEPTIN14P12** | septin 14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.138 |
| 106480344 | gene-SEPTIN14P17 | **SEPTIN14P17** | septin 14 pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 0.940 |
| 106480345 | gene-SEPTIN14P24 | **SEPTIN14P24** | septin 14 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480348 | gene-NF1P10 | **NF1P10** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480349 | gene-DUX4L46 | **DUX4L46** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480350 | gene-DUX4L50 | **DUX4L50** | double homeobox 4 like | pseudogene | 9 | 8 | 10 | 9 | 0.924 |
| 106480372 | gene-RN7SL169P | **RN7SL169P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480377 | gene-RN7SL451P | **RN7SL451P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480384 | gene-RNU6ATAC25 | **RNU6ATAC25P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480393 | gene-RNU6-487P | **RNU6-487P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480394 | gene-RNU6-512P | **RNU6-512P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480406 | gene-RNU6-1075P | **RNU6-1075P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480412 | gene-RNU1-89P | **RNU1-89P** | RNA, U1 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480414 | gene-RNU2-26P | **RNU2-26P** | RNA, U2 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480415 | gene-RNU2-51P | **RNU2-51P** | RNA, U2 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480423 | gene-RNU6-13P | **RNU6-13P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480426 | gene-GPM6BP2 | **GPM6BP2** | glycoprotein M6B pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480429 | NR_133907 | **HLA-DQB1-AS1** | HLA-DQB1 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106480437 | gene-RNA5SP149 | **RNA5SP149** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 106480438 | gene-RNA5SP199 | **RNA5SP199** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480441 | gene-GCSHP1 | **GCSHP1** | glycine cleavage system | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480442 | gene-SUB1P3 | **SUB1P3** | SUB1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.180 |
| 106480443 | gene-PKMP4 | **PKMP4** | pyruvate kinase M1/2 ps | pseudogene | 0 | 0 | 1 | 1 | 0.969 |
| 106480483 | gene-RN7SL40P | **RN7SL40P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480484 | gene-RN7SL57P | **RN7SL57P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480491 | gene-RN7SL168P | **RN7SL168P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480492 | gene-RN7SL181P | **RN7SL181P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 3 | 1 | 4 | 2 | 0.508 |
| 106480496 | gene-RN7SL242P | **RN7SL242P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480497 | gene-RN7SL260P | **RN7SL260P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480501 | gene-RN7SL321P | **RN7SL321P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480521 | gene-RN7SL608P | **RN7SL608P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 2 | 1 | 3 | 2 | 0.593 |
| 106480528 | gene-RN7SL720P | **RN7SL720P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480529 | gene-RN7SL735P | **RN7SL735P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480538 | gene-RN7SL863P | **RN7SL863P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480540 | gene-RNU6ATAC10 | **RNU6ATAC10P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480541 | gene-RNU6ATAC20 | **RNU6ATAC20P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480542 | gene-RNU6ATAC26 | **RNU6ATAC26P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480551 | gene-RNU6-97P | **RNU6-97P** | RNA, U6 small nuclear 9 | pseudogene | 1 | 0 | 2 | 1 | 0.547 |
| 106480553 | gene-RNU6-116P | **RNU6-116P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480559 | gene-RNU6-181P | **RNU6-181P** | RNA, U6 small nuclear 1 | pseudogene | 2 | 1 | 3 | 2 | 0.629 |
| 106480571 | gene-RNU6-333P | **RNU6-333P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480582 | gene-RNU6-454P | **RNU6-454P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480583 | gene-RNU6-480P | **RNU6-480P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480584 | gene-RNU6-496P | **RNU6-496P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480605 | gene-RNU6-743P | **RNU6-743P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480607 | gene-RNU6-761P | **RNU6-761P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480616 | gene-RNU6-869P | **RNU6-869P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480618 | gene-RNU6-890P | **RNU6-890P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480625 | gene-RNU6-966P | **RNU6-966P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480634 | gene-RNU6-1062P | **RNU6-1062P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480643 | gene-RNU6-1153P | **RNU6-1153P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480647 | gene-RNU6-1195P | **RNU6-1195P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480652 | gene-RNU6-1249P | **RNU6-1249P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480663 | gene-RNU1-46P | **RNU1-46P** | RNA, U1 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480664 | gene-RNU1-63P | **RNU1-63P** | RNA, U1 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480673 | gene-RNU2-61P | **RNU2-61P** | RNA, U2 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480675 | gene-HNRNPA1P76 | **HNRNPA1P76** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 106480676 | gene-KRT8P51 | **KRT8P51** | keratin 8 pseudogene 51 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480681 | gene-DYNLL1P5 | **DYNLL1P5** | dynein light chain LC8-ty | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480687 | gene-RBISP2 | **RBISP2** | RBIS pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480699 | gene-RNU6-841P | **RNU6-841P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480703 | gene-RNU6-40P | **RNU6-40P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480704 | gene-RNU6-25P | **RNU6-25P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480705 | gene-RNU6-17P | **RNU6-17P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480706 | gene-RNU6-20P | **RNU6-20P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480707 | gene-RNU6-24P | **RNU6-24P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480708 | gene-RNU6-32P | **RNU6-32P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480709 | gene-RNU6-38P | **RNU6-38P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480710 | gene-RNU6-47P | **RNU6-47P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480711 | gene-ZNF736P5Y | **ZNF736P5Y** | zinc finger protein 736 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480712 | gene-FABP5P13,ge | **FABP5P13** | fatty acid binding protein | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480720 | gene-GPM6BP1 | **GPM6BP1** | glycoprotein M6B pseud | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480722 | gene-HSFY6P | **HSFY6P** | heat shock transcription | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480738 | NR_133663 | **OSTN-AS1** | OSTN antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.447 |
| 106480746 | gene-TUBB4BP3 | **TUBB4BP3** | tubulin beta 4B class IVb | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480750 | gene-RNU6-60P | **RNU6-60P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480752 | gene-RNU6-74P | **RNU6-74P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480756 | gene-RNA5SP134 | **RNA5SP134** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480757 | gene-RNA5SP161 | **RNA5SP161** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480761 | gene-RNA5SP298 | **RNA5SP298** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480765 | gene-RNA5SP370 | **RNA5SP370** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 0.808 |
| 106480767 | gene-RNA5SP429 | **RNA5SP429** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480768 | gene-RNA5SP442 | **RNA5SP442** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480775 | gene-PTGES3P4 | **PTGES3P4** | prostaglandin E synthas | pseudogene | 0 | 0 | 1 | 1 | 0.886 |
| 106480779 | gene-WBP1LP4 | **WBP1LP4** | WBP1L pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480780 | gene-WBP1LP5 | **WBP1LP5** | WBP1L pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480781 | gene-TSEN15P2 | **TSEN15P2** | tRNA splicing endonucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480782 | gene-POLHP1 | **POLHP1** | DNA polymerase eta pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480783 | gene-CIR1P3 | **CIR1P3** | CIR1 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480786 | gene-ATG4AP1 | **ATG4AP1** | autophagy related 4A cy | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480790 | gene-ROBO2P1 | **ROBO2P1** | roundabout guidance re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480791 | gene-HMGN2P47 | **HMGN2P47** | high mobility group nucl | pseudogene | 0 | 0 | 1 | 1 | 0.909 |
| 106480792 | gene-CHCHD4P3 | **CHCHD4P3** | coiled-coil-helix-coiled-cc | pseudogene | 1 | 1 | 2 | 2 | 1.547 |
| 106480810 | gene-RFPL4AP3 | **RFPL4AP3** | ret finger protein like 4A | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480890 | gene-RN7SKP187 | **RN7SKP187** | RN7SK pseudogene 187 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480932 | gene-RN7SL38P | **RN7SL38P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480935 | gene-RN7SL49P | **RN7SL49P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 1 | 0 | 2 | 1 | 0.602 |
| 106480945 | gene-RN7SL88P | **RN7SL88P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480946 | gene-RN7SL91P | **RN7SL91P** | RNA, 7SL, cytoplasmic 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480951 | gene-RN7SL113P | **RN7SL113P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 0.744 |
| 106480955 | gene-RN7SL124P | **RN7SL124P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480956 | gene-RN7SL127P | **RN7SL127P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480959 | gene-RN7SL141P | **RN7SL141P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480960 | gene-RN7SL144P | **RN7SL144P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480979 | gene-RN7SL213P | **RN7SL213P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 0.820 |
| 106480981 | gene-RN7SL218P | **RN7SL218P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106480993 | gene-RN7SL263P | **RN7SL263P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 0.854 |
| 106481000 | gene-RN7SL288P | **RN7SL288P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 0.831 |
| 106481001 | gene-RN7SL290P | **RN7SL290P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481003 | gene-RN7SL296P | **RN7SL296P** | RNA, 7SL, cytoplasmic 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481004 | gene-RN7SL300P | **RN7SL300P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481021 | gene-RN7SL357P | **RN7SL357P** | RNA, 7SL, cytoplasmic 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481044 | gene-RN7SL445P | **RN7SL445P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481050 | gene-RN7SL468P | **RN7SL468P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481053 | gene-RN7SL478P | **RN7SL478P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481054 | gene-RN7SL481P | **RN7SL481P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 1 | 1 | 2 | 1.656 |
| 106481061 | gene-RN7SL508P | **RN7SL508P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481063 | gene-RN7SL515P | **RN7SL515P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481073 | gene-RN7SL556P | **RN7SL556P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481078 | gene-RN7SL573P | **RN7SL573P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 0.926 |
| 106481083 | gene-RN7SL586P | **RN7SL586P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481088 | gene-RN7SL607P | **RN7SL607P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481089 | gene-RN7SL614P | **RN7SL614P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481093 | gene-RN7SL627P | **RN7SL627P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481094 | gene-RN7SL630P | **RN7SL630P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 0.902 |
| 106481098 | gene-RN7SL643P | **RN7SL643P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481104 | gene-RN7SL665P | **RN7SL665P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481106 | gene-RN7SL672P | **RN7SL672P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481110 | gene-RN7SL687P | **RN7SL687P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481111 | gene-RN7SL689P | **RN7SL689P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481112 | gene-RN7SL691P | **RN7SL691P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481114 | gene-RN7SL702P | **RN7SL702P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481115 | gene-RN7SL704P | **RN7SL704P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481117 | gene-RN7SL712P | **RN7SL712P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481122 | gene-RN7SL732P | **RN7SL732P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481127 | gene-RN7SL752P | **RN7SL752P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481131 | gene-RN7SL767P | **RN7SL767P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481135 | gene-RN7SL788P | **RN7SL788P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481138 | gene-RN7SL797P | **RN7SL797P** | RNA, 7SL, cytoplasmic 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481147 | gene-RN7SL828P | **RN7SL828P** | RNA, 7SL, cytoplasmic 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481160 | gene-RNU4ATAC16 | **RNU4ATAC16P** | RNA, U4atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481169 | gene-RNU6ATAC31 | **RNU6ATAC31P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481171 | NR_157260 | **RNU6ATAC35P** | RNA, U6atac small nucle | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 106481190 | gene-RNU4-58P | **RNU4-58P** | RNA, U4 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481193 | gene-RNU4-67P | **RNU4-67P** | RNA, U4 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 106481206 | gene-RNU6-94P | **RNU6-94P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481210 | gene-RNU6-105P | **RNU6-105P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481221 | gene-RNU6-140P | **RNU6-140P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481222 | gene-RNU6-144P | **RNU6-144P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481234 | gene-RNU6-183P | **RNU6-183P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481253 | gene-RNU6-238P | **RNU6-238P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481264 | gene-RNU6-271P | **RNU6-271P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481274 | gene-RNU6-301P | **RNU6-301P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481282 | gene-RNU6-326P | **RNU6-326P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481286 | gene-RNU6-338P | **RNU6-338P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481291 | gene-RNU6-358P | **RNU6-358P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481297 | gene-RNU6-378P | **RNU6-378P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481302 | gene-RNU6-393P | **RNU6-393P** | RNA, U6 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481314 | gene-RNU6-431P | **RNU6-431P** | RNA, U6 small nuclear 4 | pseudogene | 1 | 0 | 2 | 1 | 0.491 |
| 106481335 | gene-RNU6-492P | **RNU6-492P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481342 | gene-RNU6-510P | **RNU6-510P** | RNA, U6 small nuclear 5 | pseudogene | 1 | 0 | 2 | 1 | 0.632 |
| 106481350 | gene-RNU6-536P | **RNU6-536P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481365 | gene-RNU6-582P | **RNU6-582P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481367 | gene-RNU6-589P | **RNU6-589P** | RNA, U6 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481379 | gene-RNU6-626P | **RNU6-626P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481381 | gene-RNU6-633P | **RNU6-633P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481387 | gene-RNU6-650P | **RNU6-650P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481389 | gene-RNU6-657P | **RNU6-657P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481394 | gene-RNU6-673P | **RNU6-673P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481409 | gene-RNU6-727P | **RNU6-727P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481414 | gene-RNU6-742P | **RNU6-742P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481447 | gene-RNU6-842P | **RNU6-842P** | RNA, U6 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481464 | gene-RNU6-903P | **RNU6-903P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481473 | gene-RNU6-929P | **RNU6-929P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481482 | gene-RNU6-958P | **RNU6-958P** | RNA, U6 small nuclear 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481504 | gene-RNU6-1024P | **RNU6-1024P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481526 | gene-RNU6-1099P | **RNU6-1099P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.435 |
| 106481528 | gene-RNU6-1104P | **RNU6-1104P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481534 | gene-RNU6-1124P | **RNU6-1124P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481537 | gene-RNU6-1133P | **RNU6-1133P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481539 | gene-RNU6-1139P | **RNU6-1139P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481541 | gene-RNU6-1145P | **RNU6-1145P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481552 | gene-RNU6-1180P | **RNU6-1180P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481590 | gene-RNU6-1298P | **RNU6-1298P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481592 | gene-RNU6-1305P | **RNU6-1305P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481598 | gene-RNU6-1323P | **RNU6-1323P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481600 | gene-RNU6-1329P | **RNU6-1329P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481609 | gene-RNU1-42P | **RNU1-42P** | RNA, U1 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481619 | gene-RNU1-88P | **RNU1-88P** | RNA, U1 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481624 | gene-RNVU1-32 | **RNVU1-32** | RNA, variant U1 small nu | pseudogene | 0 | 0 | 1 | 1 | 1.033 |
| 106481632 | gene-RNU1-136P | **RNU1-136P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481635 | gene-RNU1-148P | **RNU1-148P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481638 | gene-RNU2-14P | **RNU2-14P** | RNA, U2 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481641 | gene-RNU2-23P | **RNU2-23P** | RNA, U2 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481645 | gene-RNU2-36P | **RNU2-36P** | RNA, U2 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481649 | gene-RNU2-48P | **RNU2-48P** | RNA, U2 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481654 | gene-RNU2-64P | **RNU2-64P** | RNA, U2 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481660 | gene-RARRES2P7 | **RARRES2P7** | retinoic acid receptor res | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481664 | gene-HNRNPA1P65 | **HNRNPA1P65** | heterogeneous nuclear r | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481670 | gene-ELOCP30 | **ELOCP30** | elongin C pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481672 | gene-KLF2P3 | **KLF2P3** | Kruppel like factor 2 pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481673 | gene-HSPE1P11 | **HSPE1P11** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481674 | gene-HSPE1P14 | **HSPE1P14** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481676 | gene-HSPE1P23 | **HSPE1P23** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481678 | gene-SUMO2P10 | **SUMO2P10** | SUMO2 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481679 | gene-SUMO2P18 | **SUMO2P18** | SUMO2 pseudogene 18 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481681 | gene-COX6CP10 | **COX6CP10** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481685 | gene-SNRPGP17 | **SNRPGP17** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.167 |
| 106481687 | gene-PDIA3P2 | **PDIA3P2** | protein disulfide isomera | pseudogene | 39 | 54 | 40 | 55 | 1.379 |
| 106481691 | gene-EIF1P7 | **EIF1P7** | eukaryotic translation init | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481700 | gene-LARP7P3 | **LARP7P3** | LARP7 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481701 | gene-SNRPCP10 | **SNRPCP10** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481702 | gene-SNRPCP17 | **SNRPCP17** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481709 | gene-DDX43P3 | **DDX43P3** | DEAD-box helicase 43 p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481710 | gene-RNY1P11 | **RNY1P11** | RNY1 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481712 | gene-RNY4P34 | **RNY4P34** | RNY4 pseudogene 34 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481713 | gene-RNY3P11 | **RNY3P11** | RNY3 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481714 | gene-RNY3P13 | **RNY3P13** | RNY3 pseudogene 13 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481716 | gene-SMARCE1P7 | **SMARCE1P7** | SWI/SNF related, matrix | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481719 | gene-RBISP1 | **RBISP1** | RBIS pseudogene 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481722 | gene-GPAA1P2 | **GPAA1P2** | glycosylphosphatidylinos | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481724 | gene-BRWD1P1 | **BRWD1P1** | bromodomain and WD re | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481727 | gene-SETD6P1 | **SETD6P1** | SET domain containing 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481729 | gene-C1DP5 | **C1DP5** | C1D nuclear receptor co | pseudogene | 1 | 1 | 2 | 2 | 0.782 |
| 106481733 | gene-SEPTIN14P13 | **SEPTIN14P13** | septin 14 pseudogene 1 | pseudogene | 1 | 1 | 2 | 2 | 1.021 |
| 106481736 | gene-NF1P11 | **NF1P11** | neurofibromin 1 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481737 | gene-AGGF1P6 | **AGGF1P6** | angiogenic factor with G | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481742 | NR_133677 | **FRGCA** | FOXM1-regulated, gastri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106481763 | gene-RNU4-13P | **RNU4-13P** | RNA, U4 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481766 | gene-RNU6-207P | **RNU6-207P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481786 | gene-SNRPCP13 | **SNRPCP13** | small nuclear ribonucleo | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481797 | gene-WBP1LP6 | **WBP1LP6** | WBP1L pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481818 | gene-RN7SKP227 | **RN7SKP227** | RN7SK pseudogene 227 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481826 | gene-RN7SL128P | **RN7SL128P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481828 | gene-RN7SL162P | **RN7SL162P** | RNA, 7SL, cytoplasmic 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481841 | gene-RN7SL408P | **RN7SL408P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481843 | gene-RN7SL448P | **RN7SL448P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481846 | gene-RN7SL497P | **RN7SL497P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481847 | gene-RN7SL518P | **RN7SL518P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481850 | gene-RN7SL566P | **RN7SL566P** | RNA, 7SL, cytoplasmic 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481852 | gene-RN7SL617P | **RN7SL617P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481855 | gene-RN7SL679P | **RN7SL679P** | RNA, 7SL, cytoplasmic 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481869 | gene-RNU6ATAC41 | **RNU6ATAC41P** | RNA, U6atac small nucle | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481873 | gene-RNU4-84P | **RNU4-84P** | RNA, U4 small nuclear 8 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481878 | gene-RNU6-154P | **RNU6-154P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481883 | gene-RNU6-227P | **RNU6-227P** | RNA, U6 small nuclear 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481894 | gene-RNU6-428P | **RNU6-428P** | RNA, U6 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481908 | gene-RNU6-641P | **RNU6-641P** | RNA, U6 small nuclear 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481914 | gene-RNU6-737P | **RNU6-737P** | RNA, U6 small nuclear 7 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481942 | gene-RNU6-1201P | **RNU6-1201P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481946 | gene-RNU6-1255P | **RNU6-1255P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481953 | gene-RNU1-39P | **RNU1-39P** | RNA, U1 small nuclear 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481954 | gene-RNU1-55P | **RNU1-55P** | RNA, U1 small nuclear 5 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481958 | gene-RNU1-132P | **RNU1-132P** | RNA, U1 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481964 | gene-ELOCP32 | **ELOCP32** | elongin C pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481965 | gene-COX6CP16 | **COX6CP16** | cytochrome c oxidase su | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481967 | gene-NOP56P3 | **NOP56P3** | NOP56 ribonucleoprotein | pseudogene | 1 | 1 | 2 | 2 | 1.155 |
| 106481969 | gene-WBP1LP11 | **WBP1LP11** | WBP1L pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481973 | gene-RNU6-12P | **RNU6-12P** | RNA, U6 small nuclear 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106481975 | gene-RN7SL45P | **RN7SL45P** | RNA, 7SL, cytoplasmic 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106614088 | NR_132742 | **MIR34AHG** | MIR34A host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106631777 | NR_145819 | **RNA45SN1** | RNA, 45S pre-ribosomal | rRNA | 9 | 33 | 10 | 34 | 3.243 |
| 106631781 | NR_145820 | **RNA18SN1** | RNA, 18S ribosomal N1 | rRNA | 319 | 240 | 320 | 241 | 0.755 |
| 106632260 | NR_145821 | **RNA5-8SN1** | RNA, 5.8S ribosomal N1 | rRNA | 0 | 0 | 1 | 1 | 0.857 |
| 106632264 | NR_145822 | **RNA28SN1** | RNA, 28S ribosomal N1 | rRNA | 230 | 145 | 231 | 146 | 0.633 |
| 106632269 | gene-CCDC58P4 | **CCDC58P4** | coiled-coil domain contai | pseudogene | 1 | 0 | 2 | 1 | 0.746 |
| 106632270 | gene-DUX4L35 | **DUX4L35** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106632271 | NR_132752 | **SNORD128** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106633800 | NR_132753 | **SNORD133** | small nucleolar RNA, C/I | snoRNA | 4 | 4 | 5 | 5 | 1.066 |
| 106633801 | NR_132754 | **SCARNA28** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.074 |
| 106633802 | gene-RN7SKP118 | **RN7SKP118** | RN7SK pseudogene 118 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 106633803 | NR_132755 | **SNORD134** | small nucleolar RNA, C/I | snoRNA | 1 | 1 | 2 | 2 | 1.369 |
| 106633804 | NR_132756 | **SNORD135** | small nucleolar RNA, C/I | snoRNA | 3 | 3 | 4 | 4 | 1.118 |
| 106633805 | NR_132757 | **SNORD136** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 0.974 |
| 106633806 | NR_132758 | **SNORD142** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.228 |
| 106633808 | NR_132759 | **SNORD143** | small nucleolar RNA, C/I | snoRNA | 6 | 7 | 7 | 8 | 1.259 |
| 106633809 | NR_132760 | **SNORD144** | small nucleolar RNA, C/I | snoRNA | 3 | 4 | 4 | 5 | 1.306 |
| 106633810 | NR_132762 | **SCARNA26A** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 0.887 |
| 106633814 | NR_132768 | **SNORA86** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106633816 | NR_132767 | **SCARNA26B** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.072 |
| 106635520 | NR_132769 | **SNORA87** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635521 | NR_132770 | **SNORA88** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635522 | NR_132771 | **SNORA89** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635523 | NR_132772 | **SNORA90** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635524 | NR_132773 | **SNORA91** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635525 | NR_132774 | **SNORA92** | small nucleolar RNA, H/A | snoRNA | 1 | 0 | 2 | 1 | 0.604 |
| 106635526 | NR_132775 | **SNORA93** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635528 | NR_132776 | **SNORA94** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.217 |
| 106635529 | NR_132777 | **SNORA95** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635530 | NR_132778 | **SNORA98** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635531 | NR_132779 | **SNORA99** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635532 | NR_132782 | **SNORA100** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635533 | NR_132783 | **SNORA103** | small nucleolar RNA, H/A | snoRNA | 10 | 8 | 11 | 9 | 0.838 |
| 106635534 | NR_132784 | **SNORA104** | small nucleolar RNA, H/A | snoRNA | 10 | 10 | 11 | 11 | 1.025 |
| 106635539 | NR_132787 | **SNORA105A** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.318 |
| 106635540 | NR_132788 | **SNORA105B** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635541 | NR_132789 | **SNORA105C** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.001 |
| 106635542 | NR_132852 | **SNORA107** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635543 | NR_132963 | **SNORA108** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635544 | NR_132964 | **SNORA109** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 0.846 |
| 106635545 | NR_132966 | **SNORA110** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635546 | NR_132967 | **SNORA111** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635547 | NR_132972 | **SNORD129** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.312 |
| 106635548 | NR_132973 | **SNORD130** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635549 | NR_132974 | **SNORD131** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.237 |
| 106635550 | NR_132975 | **SNORD132** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635615 | NR_132976 | **SNORD137** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106635682 | NR_132979 | **SNORD140** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.926 |
| 106635683 | NR_132980 | **SNORD141A** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.001 |
| 106635684 | NR_132981 | **SNORD141B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.994 |
| 106660605 | NR_146952 | **MIR2117HG** | MIR2117 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106660606 | NR_132988 | **LOC106660606** | uncharacterized LOC106 | lncRNA | 1 | 2 | 2 | 3 | 1.486 |
| 106660609 | NR_132991,NR_13 | **MIR4432HG** | MIR4432 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106660610 | NR_132993 | **MIR5689HG** | MIR5689 host gene | lncRNA | 0 | 0 | 1 | 1 | 0.780 |
| 106660612 | NR_125727,NR_12 | **LINC00680** | long intergenic non-prote | lncRNA | 13 | 14 | 14 | 15 | 1.035 |
| 106660613 | NR_003660,NR_13 | **LINC00680-GUSBP4** | LINC00680-GUSBP4 rea | transcribed_pseu | 0 | 0 | 1 | 1 | 0.992 |
| 106660614 | gene-EGLN1P1 | **EGLN1P1** | egl-9 family hypoxia indu | pseudogene | 0 | 0 | 1 | 1 | 1.195 |
| 106660617 | gene-DUX4L43 | **DUX4L43** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 106699570 | NR_133569 | **LOC106699570** | uncharacterized LOC106 | lncRNA | 0 | 0 | 1 | 1 | 1.041 |
| 106707243 | NM_001316893 | **PRH1-TAS2R14** | PRH1-TAS2R14 readthro | protein_coding | 1 | 2 | 2 | 3 | 1.680 |
| 106736475 | NR_133914 | **PCF11-AS1** | PCF11 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.065 |
| 106780802 | NR_133662 | **KCNK4-TEX40** | KCNK4-TEX40 readthrou | lncRNA | 0 | 0 | 1 | 1 | 0.832 |
| 106780825 | NR_133678 | **LOC106780825** | FOXM1-regulated, gastri | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 106821730 | NM_001128628,NM | **BUB1B-PAK6** | BUB1B-PAK6 readthrou | protein_coding | 0 | 0 | 1 | 1 | 0.972 |
| 106865373 | NM_001317744,NM | **GET1-SH3BGR** | GET1-SH3BGR readthro | protein_coding | 1 | 0 | 2 | 1 | 0.698 |
| 106903081 | gene-DUSP8P5 | **DUSP8P5** | dual specificity phosphat | pseudogene | 1 | 1 | 2 | 2 | 1.129 |
| 107001062 | NR_134500 | **LOC107001062** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107048985 | gene-RNU4-46P | **RNU4-46P** | RNA, U4 small nuclear 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107063538 | gene-AHCYP8 | **AHCYP8** | adenosylhomocysteinas | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075092 | gene-NDUFB4P4 | **NDUFB4P4** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075094 | gene-NDUFB4P7 | **NDUFB4P7** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075096 | gene-NDUFB4P5 | **NDUFB4P5** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075097 | gene-NDUFB4P6 | **NDUFB4P6** | NADH:ubiquinone oxidor | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075107 | gene-SEPTIN14P21 | **SEPTIN14P21** | septin 14 pseudogene 2 | pseudogene | 0 | 1 | 1 | 2 | 1.562 |
| 107075109 | gene-RPSAP65 | **RPSAP65** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075110 | gene-RPSAP66 | **RPSAP66** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075111 | gene-RPSAP67 | **RPSAP67** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075112 | gene-RPSAP72 | **RPSAP72** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075113 | gene-RPSAP74 | **RPSAP74** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075114 | gene-RPSAP75 | **RPSAP75** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075115 | gene-RPL12P47 | **RPL12P47** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 0.841 |
| 107075116 | NR_132748 | **MIR3142HG** | MIR3142 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107075212 | gene-RPL12P50 | **RPL12P50** | ribosomal protein L12 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075219 | gene-LAPTM4BP2 | **LAPTM4BP2** | lysosomal protein transm | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075250 | gene-RPSAP73 | **RPSAP73** | ribosomal protein SA pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107075316 | gene-DUX4L32 | **DUX4L32** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080553 | gene-PCMTD1P7 | **PCMTD1P7** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080638 | NM_001318809,NR_ | **TBC1D7-LOC10013035** | TBC1D7-LOC100130357 | protein_coding | 0 | 1 | 1 | 2 | 1.180 |
| 107080641 | gene-CYP4A26P | **CYP4A26P** | cytochrome P450 family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080642 | gene-DUX4L36 | **DUX4L36** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080644 | NM_001318856,NM | **CNPY3-GNMT** | CNPY3-GNMT readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.268 |
| 107080645 | gene-DUX4L39 | **DUX4L39** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080649 | gene-DUX4L40 | **DUX4L40** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107080651 | gene-DUX4L44 | **DUX4L44** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105252 | gene-DUX4L49 | **DUX4L49** | double homeobox 4 like | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105255 | gene-PCMTD1P6 | **PCMTD1P6** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105257 | gene-PCMTD1P8 | **PCMTD1P8** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105258 | gene-PCMTD1P4 | **PCMTD1P4** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105260 | gene-PCMTD1P5 | **PCMTD1P5** | protein-L-isoaspartate (D | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107105263 | gene-SEPTIN14P2 | **SEPTIN14P2** | septin 14 pseudogene 2 | pseudogene | 1 | 1 | 2 | 2 | 1.129 |
| 107105265 | gene-SEPTIN14P3 | **SEPTIN14P3** | septin 14 pseudogene 3 | pseudogene | 0 | 0 | 1 | 1 | 0.973 |
| 107105266 | gene-SEPTIN14P4 | **SEPTIN14P4** | septin 14 pseudogene 4 | pseudogene | 1 | 1 | 2 | 2 | 0.772 |
| 107105271 | gene-SEPTIN14P19 | **SEPTIN14P19** | septin 14 pseudogene 19 | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 107105276 | gene-SEPTIN14P5 | **SEPTIN14P5** | septin 14 pseudogene 5 | pseudogene | 0 | 0 | 1 | 1 | 0.987 |
| 107105278 | gene-SEPTIN14P6 | **SEPTIN14P6** | septin 14 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 0.966 |
| 107105280 | gene-SEPTIN14P7 | **SEPTIN14P7** | septin 14 pseudogene 7 | pseudogene | 0 | 0 | 1 | 1 | 1.034 |
| 107105282 | NR_147846,NR_147 | **SCTR-AS1** | SCTR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107105352 | gene-SEPTIN14P10 | **SEPTIN14P10** | septin 14 pseudogene 10 | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 107105353 | gene-SEPTIN14P11 | **SEPTIN14P11** | septin 14 pseudogene 11 | pseudogene | 0 | 0 | 1 | 1 | 1.015 |
| 107105354 | gene-SEPTIN14P14 | **SEPTIN14P14** | septin 14 pseudogene 14 | pseudogene | 1 | 1 | 2 | 2 | 1.052 |
| 107126282 | gene-SEPTIN14P15 | **SEPTIN14P15** | septin 14 pseudogene 15 | pseudogene | 0 | 0 | 1 | 1 | 0.976 |
| 107126283 | gene-SEPTIN14P16 | **SEPTIN14P16** | septin 14 pseudogene 16 | pseudogene | 0 | 0 | 1 | 1 | 0.961 |
| 107126284 | gene-SEPTIN14P18 | **SEPTIN14P18** | septin 14 pseudogene 18 | pseudogene | 0 | 0 | 1 | 1 | 1.012 |
| 107126285 | gene-SEPTIN14P20 | **SEPTIN14P20** | septin 14 pseudogene 20 | pseudogene | 0 | 0 | 1 | 1 | 0.969 |
| 107126286 | gene-SEPTIN14P22 | **SEPTIN14P22** | septin 14 pseudogene 22 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107126290 | gene-SEPTIN14P23 | **SEPTIN14P23** | septin 14 pseudogene 23 | pseudogene | 0 | 0 | 1 | 1 | 1.018 |
| 107133486 | gene-CDK2AP2P2 | **CDK2AP2P2** | cyclin dependent kinase | pseudogene | 0 | 0 | 1 | 1 | 1.040 |
| 107133508 | gene-RNA5SP387 | **RNA5SP387** | RNA, 5S ribosomal pseu | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107133513 | gene-KRT18P64 | **KRT18P64** | keratin 18 pseudogene 6 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107133515 | NR_015341 | **SMURF2P1-LRRC37BP** | SMURF2P1-LRRC37BP1 | transcribed_pseu | 10 | 11 | 11 | 12 | 1.094 |
| 107133516 | gene-SMURF2P1 | **SMURF2P1** | SMAD specific E3 ubiqui | pseudogene | 7 | 6 | 8 | 7 | 0.823 |
| 107133519 | gene-PSAT1P2 | **PSAT1P2** | phosphoserine aminotra | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107133522 | gene-DHX40P1 | **DHX40P1** | DEAH-box helicase 40 p | pseudogene | 6 | 6 | 7 | 7 | 1.026 |
| 107133523 | gene-ELOCP27 | **ELOCP27** | elongin C pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107161151 | NR_135011,NR_13 | **AOX3P-AOX2P** | AOX3P-AOX2P readthro | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107161159 | NR_135045 | **LINC02415** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107178918 | NR_135071 | **LINC01593** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107178919 | gene-RNY3P15 | **RNY3P15** | RNY3 pseudogene 15 | pseudogene | 0 | 0 | 1 | 1 | 1.009 |
| 107178920 | gene-LOC10717892 | **LOC107178920** | chondroitin sulfate N-ace | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107181291 | NM_001320010 | **PYDC5** | pyrin domain containing | protein_coding | 0 | 0 | 1 | 1 | 1.007 |
| 107282092 | NM_001320622,NM | **BOLA2-SMG1P6** | BOLA2-SMG1P6 readthr | protein_coding | 79 | 76 | 80 | 77 | 0.958 |
| 107303344 | NM_001320727,NR_ | **SETDB2-PHF11** | SETDB2-PHF11 readthro | protein_coding | 0 | 0 | 1 | 1 | 1.069 |
| 107397391 | NR_135613 | **SCARNA21B** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 107397392 | NR_135615 | **SCARNA18B** | small Cajal body-specific | guide_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 107399301 | NR_135619 | **SNORA101A** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107399303 | NR_135620 | **SNORA101B** | small nucleolar RNA, H/A | snoRNA | 0 | 0 | 1 | 1 | 1.338 |
| 107403079 | gene-WBP1LP9 | **WBP1LP9** | WBP1L pseudogene 9 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107403150 | gene-CNTNAP3P4 | **CNTNAP3P4** | CNTNAP3 pseudogene 4 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107546764 | NR_136406 | **LINC01976** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107548099 | id-IGHVII-30-21 | **IGHVII-30-21** | immunoglobulin heavy va | V_segment_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107983949 | XR_932444 | **LOC107983949** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.274 |
| 107983950 | XR_933884 | **LOC107983950** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.014 |
| 107983952 | XR_937790,XR_937 | **LOC107983952** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983955 | NM_001354366 | **ELOA3C** | elongin A3 family membe | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983958 | XM_017020886 | **LOC107983958** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983959 | XR_938591 | **LOC107983959** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983960 | XR_949277 | **LOC107983960** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983961 | XR_001752183 | **LOC107983961** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983963 | XR_939607,XR_939 | **LOC107983963** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983966 | XR_001742552 | **LOC107983966** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983969 | XR_924386 | **LOC107983969** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983971 | XR_242293,XR_927 | **LOC107983971** | uncharacterized LOC107 | lncRNA | 4 | 2 | 5 | 3 | 0.494 |
| 107983974 | XR_001751679,XR_ | **LOC107983974** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983975 | XR_001749212,XR_ | **CAPS2-AS1** | CAPS2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983976 | XR_931032 | **LOC107983976** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983979 | XR_001741423,XR_ | **LOC107983979** | uncharacterized LOC107 | lncRNA | 4 | 2 | 5 | 3 | 0.678 |
| 107983980 | XR_001742534 | **LOC107983980** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.006 |
| 107983981 | XM_017022782,XM | **LOC107983981** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983982 | XR_001752047 | **LOC107983982** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 107983983 | XM_017022769 | **LOC107983983** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983985 | XR_001746129,XR_ | **LOC107983985** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983988 | NM_001364672,NM | **SPEM3** | SPEM family member 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983989 | XM_011519770 | **LOC107983989** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107983990 | XM_005255752 | **LOC107983990** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.850 |
| 107983993 | NM_001363506 | **UPK3BL2** | uroplakin 3B like 2 | protein_coding | 6 | 6 | 7 | 7 | 0.966 |
| 107983995 | XR_923576 | **LOC107983995** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983996 | XR_934905 | **LOC107983996** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107983998 | XM_011527018,XM | **LOC107983998** | uncharacterized LOC107 | protein_coding | 7 | 8 | 8 | 9 | 1.154 |
| 107983999 | XR_947527 | **LINC02792** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984000 | XR_924403 | **LOC107984000** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 107984001 | XR_001754684,XR_ | **LOC107984001** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984002 | XR_001747662,XR_ | **LINC02646** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.904 |
| 107984003 | XR_429356 | **LOC107984003** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984004 | XR_941226 | **LOC107984004** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984005 | XR_928468,XR_928 | **LOC107984005** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984006 | XR_929655,XR_929 | **LOC107984006** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.871 |
| 107984007 | XR_928500 | **LOC107984007** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984009 | NR_146971 | **LINC00415** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984010 | XR_924880 | **LOC107984010** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984011 | XR_001746706 | **LOC107984011** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984012 | XR_001747465,XR_ | **LOC107984012** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984013 | XR_001752129 | **LOC107984013** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984014 | XM_017012898 | **LOC107984014** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984015 | XR_001743980,XR_ | **LOC107984015** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984016 | XR_943973 | **LOC107984016** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984017 | XR_001745734 | **LOC107984017** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984018 | XR_001738470,XR_ | **LOC107984018** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984019 | XR_001748111,XR_ | **LOC107984019** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984020 | XR_001739324 | **LOC107984020** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984021 | XR_001740805 | **LOC107984021** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984023 | XR_945206 | **LOC107984023** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984024 | XR_001749905 | **LOC107984024** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984025 | XM_017022772 | **LOC107984025** | golgin subfamily A memt | protein_coding | 0 | 1 | 1 | 2 | 1.557 |
| 107984027 | XR_001750742,XR_ | **LINC02277** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984028 | XR_001737782,XR_ | **LINC02810** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984029 | XR_001747571 | **LOC107984029** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984030 | gene-LOC1079840 | **LOC107984030** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984031 | XR_001753447 | **LOC107984031** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984032 | XR_001741900 | **LOC107984032** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984034 | XR_001745291 | **LOC107984034** | uncharacterized LOC107 | lncRNA | 6 | 5 | 7 | 6 | 0.917 |
| 107984035 | NR_148348 | **LOC107984035** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.938 |
| 107984036 | NR_159963,NR_159 | **LOC107984036** | uncharacterized LOC107 | lncRNA | 2 | 3 | 3 | 4 | 1.377 |
| 107984037 | XR_001755416 | **LOC107984037** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984040 | XR_001748468,XR_ | **LOC107984040** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984041 | XR_002956381,XR_ | **LOC107984041** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |
| 107984043 | XM_017005443 | **LOC107984043** | formin-2-like | protein_coding | 0 | 0 | 1 | 1 | 0.841 |
| 107984059 | XR_001747639 | **LOC107984059** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984063 | XR_002959394,XR_ | **LOC107984063** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.003 |
| 107984079 | XR_001740721,XR_ | **LOC107984079** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984083 | XR_001752132 | **LOC107984083** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984087 | XR_001740848,XR_ | **LOC107984087** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984088 | XR_001754466,XR_ | **LOC107984088** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984089 | XR_002957769,XR_ | **LOC107984089** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984098 | XR_001742553 | **LOC107984098** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984104 | XM_017028187,XM | **LOC107984104** | uncharacterized LOC107 | protein_coding | 2 | 1 | 3 | 2 | 0.978 |
| 107984109 | XR_001738420 | **LOC107984109** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984111 | XR_001739886 | **LOC107984111** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984112 | XR_001740593,XR_ | **LOC107984112** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 107984113 | XR_001741924 | **LOC107984113** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984114 | XR_001742451 | **MIR583HG** | MIR583 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984116 | XR_001742709 | **LOC107984116** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984117 | XR_001742811 | **LINC02058** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984118 | XR_001743003 | **LOC107984118** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984120 | XR_001744200 | **LOC107984120** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 107984123 | XR_001745376 | **LOC107984123** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984124 | XM_017014154 | **LOC107984124** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984126 | XM_017015387 | **LOC107984126** | zinc finger protein 658B-l | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984127 | XR_001746934 | **LOC107984127** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984128 | XR_001747623,XR_ | **LOC107984128** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984129 | XR_001749011 | **LOC107984129** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.902 |
| 107984130 | XR_001749293 | **LOC107984130** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.802 |
| 107984131 | XR_001749435 | **LOC107984131** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984132 | NR_146902 | **LOC107984132** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984133 | gene-LOC1079841 | **LOC107984133** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984135 | gene-LOC1079841 | **LOC107984135** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984136 | XR_001751519 | **LOC107984136** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984137 | XR_001752087 | **LOC107984137** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984138 | XM_017023965,XM | **LOC107984138** | serine/threonine-protein | protein_coding | 4 | 3 | 5 | 4 | 0.783 |
| 107984139 | XM_017027560 | **LOC107984139** | zinc finger protein 791-lik | protein_coding | 0 | 1 | 1 | 2 | 1.186 |
| 107984140 | XR_001753967,XR_ | **LOC107984140** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.162 |
| 107984158 | XR_001747706 | **LOC107984158** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.862 |
| 107984160 | XR_001747269 | **LOC107984160** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984161 | gene-ARL4AP3 | **ARL4AP3** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984162 | gene-LOC1079841 | **LOC107984162** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984164 | gene-LOC1079841 | **LOC107984164** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984165 | gene-LOC1079841 | **LOC107984165** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984168 | XR_001747270 | **LOC107984168** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984169 | XR_001747273 | **LOC107984169** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984170 | XR_001747283 | **LOC107984170** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984171 | XR_001747285,XR_ | **LOC107984171** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984172 | XR_001747287 | **LOC107984172** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984173 | XR_001747288 | **LOC107984173** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984174 | XR_001747284 | **LOC107984174** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984175 | XR_001747290 | **LOC107984175** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984176 | XR_001747280 | **LOC107984176** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984177 | XR_001747294 | **LOC107984177** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984178 | XR_001747295,XR_ | **LINC02632** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984179 | XR_001747298 | **LOC107984179** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984180 | XR_001747279 | **LOC107984180** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984181 | XR_001747300,XR_ | **LOC107984181** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984182 | XR_001747307 | **LOC107984182** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984183 | XR_001747308 | **LOC107984183** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984184 | XR_001747309,XR_ | **LOC107984184** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107984185 | XR_001747311 | **LOC107984185** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984186 | XR_001747313 | **LOC107984186** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984187 | XR_001747299 | **LOC107984187** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984188 | XR_001747289 | **LOC107984188** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984189 | XM_017017012 | **LOC107984189** | uncharacterized protein ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984190 | XR_001747314 | **LOC107984190** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984191 | XR_001747315,XR_ | **LOC107984191** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984192 | XR_001747329 | **LOC107984192** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984193 | XR_001747330 | **LOC107984193** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984195 | XR_001747334,XR_ | **LOC107984195** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984196 | XR_001747336 | **LOC107984196** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984197 | XR_001747339 | **LOC107984197** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984198 | XR_001747341 | **LOC107984198** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.059 |
| 107984199 | XR_001747344 | **LOC107984199** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984200 | XR_001747348 | **LOC107984200** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984201 | XR_001747349 | **LOC107984201** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984202 | XR_001747350 | **LOC107984202** | uncharacterized LOC107 | lncRNA | 10 | 9 | 11 | 10 | 0.935 |
| 107984203 | XM_017017016 | **LOC107984203** | endogenous retrovirus g | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 107984204 | XR_001747358 | **LOC107984204** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.836 |
| 107984205 | XR_001747359,XR_ | **LOC107984205** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.192 |
| 107984206 | XR_001747361 | **LOC107984206** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984207 | XR_001747364 | **LOC107984207** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984208 | NR_160647 | **LOC107984208** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984209 | XR_001747366 | **LOC107984209** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984210 | XR_001747375,XR_ | **LOC107984210** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 107984211 | XR_001747379 | **LOC107984211** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984212 | XR_001747680 | **LOC107984212** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984213 | XR_001747681 | **LOC107984213** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984214 | XR_001747388 | **LOC107984214** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.887 |
| 107984215 | XR_001747394 | **LOC107984215** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984216 | XR_001747401 | **LOC107984216** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984217 | XR_001747402 | **LOC107984217** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984218 | XR_001747403 | **LOC107984218** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984219 | XR_001747415 | **LOC107984219** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984220 | XR_001747421 | **LOC107984220** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984221 | XR_001747422 | **LOC107984221** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984222 | XR_001747423 | **LOC107984222** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984223 | XR_001747426 | **LOC107984223** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984224 | XR_001747427 | **LOC107984224** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 107984225 | XR_001747437,XR_ | **LOC107984225** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.070 |
| 107984226 | XR_001747439 | **LOC107984226** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984227 | gene-LOC10798422 | **LOC107984227** | . | pseudogene | 0 | 0 | 1 | 1 | 0.975 |
| 107984234 | XR_001747455,XR_ | **LOC107984234** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984235 | XR_001747457 | **LOC107984235** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984236 | NR_160732 | **LOC107984236** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984237 | XR_001747458,XR_ | **LINC02625** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984238 | XR_001747468 | **LOC107984238** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984239 | XR_001747475 | **LOC107984239** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984240 | XR_001747478,XR_ | **LOC107984240** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984241 | XR_001747481 | **LINC02640** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984242 | XR_001747484,XR_ | **LOC107984242** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984243 | XR_001747500 | **LOC107984243** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.074 |
| 107984244 | XR_001747501 | **LOC107984244** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984245 | XR_001747513 | **LOC107984245** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984246 | XR_001747514 | **LOC107984246** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984247 | XR_001747516,XR_ | **LOC107984247** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984248 | XR_001747518 | **LOC107984248** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 107984249 | XR_001747520,XR_ | **LOC107984249** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984251 | XR_001747541 | **LOC107984251** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.788 |
| 107984252 | XR_001747547 | **LOC107984252** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984253 | XR_001747550 | **LOC107984253** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984254 | XR_001747551 | **LOC107984254** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 107984255 | XR_001747554 | **LOC107984255** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984256 | XR_001747556 | **LOC107984256** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984257 | XR_001747557,XR_ | **LOC107984257** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984258 | XR_001747558,XR_ | **LOC107984258** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984260 | XR_001747563 | **LOC107984260** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984261 | XR_001747568 | **LOC107984261** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.078 |
| 107984262 | XR_001747569 | **LOC107984262** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 0.953 |
| 107984263 | XR_001747574 | **LOC107984263** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984264 | XM_017017026 | **LOC107984264** | transmembrane protein 1 | protein_coding | 0 | 0 | 1 | 1 | 0.997 |
| 107984265 | NR_160733 | **LOC107984265** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984266 | XR_001747580 | **LOC107984266** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984268 | XR_001747586,XR_ | **LOC107984268** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984269 | XR_001747589,XR_ | **LOC107984269** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984270 | XR_001747591,XR_ | **LOC107984270** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984271 | XR_001747593 | **LOC107984271** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984272 | XR_001747594,XR_ | **LOC107984272** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984273 | XR_001747598 | **LOC107984273** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984274 | XR_001747600 | **LOC107984274** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984275 | XR_001747613 | **LOC107984275** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.172 |
| 107984276 | XR_001747631 | **LOC107984276** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984277 | XR_001747633,XR_ | **LOC107984277** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984279 | XR_001747644 | **LOC107984279** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984280 | XR_001747645,XR_ | **LINC02666** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 107984281 | XR_001747650 | **LOC107984281** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984282 | NR_158224 | **LOC107984282** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984283 | XR_001747674,XR_ | **LOC107984283** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984284 | XR_001747676 | **LOC107984284** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984285 | XR_001747677 | **LOC107984285** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 107984289 | gene-LOC1079842 | **LOC107984289** | Ras homolog, mTORC1 | pseudogene | 2 | 1 | 3 | 2 | 0.898 |
| 107984292 | XR_001747689,XR_ | **LOC107984292** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984293 | XR_001747703 | **LOC107984293** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984294 | XR_001747704 | **LOC107984294** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984298 | XR_001748094 | **LOC107984298** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984299 | XR_001748095 | **LOC107984299** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984301 | XR_001748098,XR_ | **LOC107984301** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984302 | XR_001748100 | **LOC107984302** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.046 |
| 107984303 | XR_001748101,XR_ | **LOC107984303** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984304 | XR_001748104 | **LOC107984304** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984307 | XR_001748116 | **LOC107984307** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984308 | XR_001748118 | **LOC107984308** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984309 | XR_001748124 | **LOC107984309** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984310 | XR_001748133 | **LOC107984310** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984311 | XR_001748134 | **LOC107984311** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984312 | XR_001748135 | **LOC107984312** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984313 | XR_001748136 | **LOC107984313** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984315 | XR_001748138 | **LOC107984315** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 107984316 | XR_001748143 | **LOC107984316** | uncharacterized LOC107 | lncRNA | 4 | 4 | 5 | 5 | 0.903 |
| 107984317 | XR_001748144 | **LOC107984317** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984318 | XR_001748145 | **LOC107984318** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.776 |
| 107984320 | XR_001748150 | **LOC107984320** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984321 | XR_001748159 | **LOC107984321** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984322 | XR_001748165 | **LOC107984322** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984323 | gene-LOC10798432 | **LOC107984323** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984324 | XR_001748185 | **SLC1A2-AS1** | SLC1A2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984325 | XR_001748186 | **LOC107984325** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984326 | XR_001748187,XR_ | **LOC107984326** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984328 | XR_001748197 | **LOC107984328** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984329 | XR_001748206 | **LOC107984329** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.790 |
| 107984330 | XR_001748207,XR_ | **LOC107984330** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984331 | XR_001748218 | **LOC107984331** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984333 | XR_001748242 | **LOC107984333** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.177 |
| 107984334 | XR_001748245,XR_ | **LOC107984334** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 107984335 | XR_001748246 | **LOC107984335** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984336 | XR_001748255 | **LOC107984336** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107984337 | XR_001748258,XR_ | **NRXN2-AS1** | NRXN2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984338 | XR_001748264 | **LOC107984338** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.541 |
| 107984340 | XR_001748274 | **LOC107984340** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984341 | NR_160735 | **LOC107984341** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 107984343 | XR_001748281 | **LOC107984343** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984344 | XR_001748282 | **LOC107984344** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984345 | NM_001369201,NR_ | **SMIM38** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984346 | XR_001748288 | **LOC107984346** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984347 | XR_001748289 | **LOC107984347** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.040 |
| 107984349 | gene-PPIAP40 | **PPIAP40** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984350 | gene-LOC1079843 | **LOC107984350** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984351 | XM_017018633 | **LOC107984351** | protein GVQW2-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984352 | XR_001748295 | **LOC107984352** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.023 |
| 107984354 | gene-LOC1079843 | **LOC107984354** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984356 | gene-LOC1079843 | **LOC107984356** | . | pseudogene | 0 | 0 | 1 | 1 | 1.113 |
| 107984357 | gene-LOC1079843 | **LOC107984357** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984358 | XR_001748297 | **LOC107984358** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984359 | XR_001748309 | **LINC02761** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984360 | XR_001748313 | **LOC107984360** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984361 | XR_001748316,XR_ | **LOC107984361** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984362 | XR_001748061,XR_ | **LOC107984362** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984363 | XR_001748321,XR_ | **LOC107984363** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984364 | XR_001748067 | **LOC107984364** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984365 | gene-LOC1079843 | **LOC107984365** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984366 | XR_001748068 | **LINC02723** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984367 | gene-LOC1079843 | **LOC107984367** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984368 | XR_001748071 | **LOC107984368** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984369 | XR_001748072,XR_ | **LOC107984369** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984370 | XR_001748058 | **LOC107984370** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984371 | XR_001748074 | **LOC107984371** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984372 | XR_001748078 | **LOC107984372** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984373 | XR_001748081 | **LOC107984373** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984374 | XR_001748082 | **LOC107984374** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984375 | XR_001748334 | **LOC107984375** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984376 | XR_001748335 | **LOC107984376** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984377 | XR_001748337 | **LOC107984377** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984378 | XR_001748059 | **LOC107984378** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984379 | XR_001748080 | **LOC107984379** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984380 | XR_001748349,XR_ | **LOC107984380** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984381 | XR_001748352 | **LOC107984381** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984382 | gene-LOC1079843 | **LOC107984382** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984384 | XR_001748372 | **LOC107984384** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984385 | XR_001748373,XR_ | **LOC107984385** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984386 | XR_001748382 | **LOC107984386** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984387 | XR_001748385 | **LOC107984387** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.007 |
| 107984388 | XR_001748386 | **LOC107984388** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984389 | XR_001748387 | **LOC107984389** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984390 | XR_001748390,XR_ | **LOC107984390** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984391 | XR_001748393 | **LOC107984391** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984393 | XR_001748402 | **LOC107984393** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984394 | XR_001748404 | **LOC107984394** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984396 | XR_001748410 | **CCDC84-DT** | CCDC84 divergent transc | lncRNA | 6 | 7 | 7 | 8 | 1.137 |
| 107984397 | XR_001748411 | **LOC107984397** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.280 |
| 107984398 | XR_001748412 | **LOC107984398** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984399 | NR_159965 | **LOC107984399** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984400 | XR_001748418,XR_ | **LOC107984400** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984402 | XR_001748422 | **LOC107984402** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984403 | XR_001748425,XR_ | **LOC107984403** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984404 | XR_001748427 | **LOC107984404** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984405 | XR_001748428 | **LOC107984405** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984406 | XR_001748429 | **LOC107984406** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984407 | XR_001748432 | **LOC107984407** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984408 | XR_001748440 | **LOC107984408** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984409 | XR_001748442 | **LOC107984409** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984410 | XR_001748443 | **LOC107984410** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984411 | XR_001748460 | **LOC107984411** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984412 | XR_001748463,XR_ | **LOC107984412** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984413 | XR_001748465 | **LOC107984413** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984414 | XR_001748466 | **LINC02730** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984416 | XR_001748475 | **LOC107984416** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984418 | XR_001748477 | **LOC107984418** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984419 | XR_001748485 | **LOC107984419** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984420 | XR_001748489 | **LOC107984420** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.892 |
| 107984421 | XR_001748490,XR_ | **LOC107984421** | uncharacterized LOC107 | lncRNA | 5 | 5 | 6 | 6 | 1.065 |
| 107984423 | XR_001748500,XR_ | **LOC107984423** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.047 |
| 107984424 | XR_001748501 | **LOC107984424** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984425 | XR_001748523 | **LOC107984425** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984426 | XR_001748524 | **LINC02695** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.861 |
| 107984427 | XR_001748525,XR_ | **ME3-DT** | ME3 divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984428 | XR_001748530 | **LOC107984428** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984429 | XR_001748532 | **LOC107984429** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984430 | XR_001748533 | **LOC107984430** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984431 | XR_001748534 | **LOC107984431** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984432 | XR_001748444 | **LOC107984432** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.071 |
| 107984433 | XR_001749292 | **LOC107984433** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984434 | gene-LOC1079844 | **LOC107984434** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984435 | XR_001749303,XR_ | **LOC107984435** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984436 | XR_001749318 | **LOC107984436** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984437 | XR_001749325,XR_ | **LOC107984437** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984438 | XR_001749338 | **LOC107984438** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984439 | XR_001749339 | **LINC02457** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984440 | XR_001749344,XR_ | **LOC107984440** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984442 | XR_001749357 | **LOC107984442** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.216 |
| 107984444 | XR_001749363 | **LOC107984444** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984445 | XR_001749366,XR_ | **LOC107984445** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984446 | XR_001749371,XR_ | **LINC02467** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984447 | XR_001749372,XR_ | **LOC107984447** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984448 | XR_001749384 | **LOC107984448** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984449 | XM_024449289,XM | **LOC107984449** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984450 | XR_001749390 | **LOC107984450** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984451 | XR_001749404,XR_ | **LOC107984451** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.982 |
| 107984452 | XR_001749406 | **LOC107984452** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984455 | XR_001749414 | **LOC107984455** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.613 |
| 107984456 | XR_001749419 | **LOC107984456** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984459 | XR_001749437 | **LOC107984459** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.882 |
| 107984461 | XR_001749447,XR_ | **LOC107984461** | uncharacterized LOC107 | lncRNA | 4 | 4 | 5 | 5 | 0.991 |
| 107984462 | XR_001749450 | **LOC107984462** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984466 | XR_001749082 | **LOC107984466** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984467 | XR_001749160 | **LOC107984467** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984468 | XR_001749092 | **LOC107984468** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.877 |
| 107984469 | XR_001749076 | **LOC107984469** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984470 | XR_001749064,XR_ | **LOC107984470** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984471 | XR_001749099 | **LOC107984471** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984472 | XR_001749170 | **LOC107984472** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984473 | XR_001749066 | **LOC107984473** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984474 | XR_001749080 | **LRRK2-DT** | LRRK2 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984475 | XR_001749057 | **LOC107984475** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984476 | XR_001749062,XR_ | **LOC107984476** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984478 | XR_001749242 | **LOC107984478** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984479 | gene-LOC10798447 | **LOC107984479** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984480 | XR_001749178,XR_ | **LOC107984480** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984481 | gene-LOC1079844 | **LOC107984481** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984482 | XR_001749054 | **LOC107984482** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984484 | XR_001749078 | **LOC107984484** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984485 | XR_001749009 | **LOC107984485** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.066 |
| 107984486 | XR_001749010 | **LOC107984486** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|
| 107984487 | XR_001749145 | **LOC107984487** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984489 | XR_001748993 | **LOC107984489** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 107984492 | XR_001749012 | **LOC107984492** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 107984494 | XR_001749030,XR_ | **LOC107984494** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984495 | XR_001748963,XR_ | **LOC107984495** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984496 | XR_001749089 | **LOC107984496** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984497 | XR_001749041,XR_ | **SULT6B2P** | sulfotransferase family 6 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.959 |
| 107984498 | XR_001749090 | **LOC107984498** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984499 | XR_001749091 | **LOC107984499** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984500 | XR_001748982,XR_ | **LOC107984500** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984501 | XR_001749051 | **LOC107984501** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984503 | XR_001749114 | **LINC02354** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984504 | XR_001749083 | **CPNE8-AS1** | CPNE8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984505 | XR_001749144 | **LOC107984505** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 107984506 | XR_001749017,XR_ | **LOC107984506** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984507 | NR_160736 | **LOC107984507** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984508 | XR_001749146,XR_ | **LOC107984508** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984509 | XR_001749000,XR_ | **LOC107984509** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984510 | XR_001749148 | **LOC107984510** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984512 | XM_017020293 | **LOC107984512** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984515 | XR_001749161 | **LOC107984515** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984516 | XR_001749045 | **LOC107984516** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984521 | XR_001749094,XR_ | **LOC107984521** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984522 | XR_001749177 | **LOC107984522** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984525 | XR_001749153,XR_ | **LOC107984525** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 107984526 | XR_001749190,XR_ | **LOC107984526** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 107984527 | XR_001749033 | **LOC107984527** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984528 | XR_001749106,XR_ | **LINC02416** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984529 | XR_001749201 | **LOC107984529** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.202 |
| 107984530 | XR_001749202 | **LOC107984530** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984531 | XR_001749189 | **LOC107984531** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984532 | XR_001749079 | **LOC107984532** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984533 | XR_001749219 | **LOC107984533** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984535 | XR_001749224,XR_ | **LOC107984535** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984536 | XR_001749234,XR_ | **LOC107984536** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984537 | XR_001749238,XR_ | **LOC107984537** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 107984539 | XR_001749432 | **LINC02371** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984540 | XR_001749433 | **CACNA1C-IT1** | CACNA1C intronic transc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984542 | XR_001749243,XR_ | **LOC107984542** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.096 |
| 107984543 | XR_001749247 | **LOC107984543** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984544 | XR_001749252 | **LOC107984544** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984545 | XR_001749266,XR_ | **LOC107984545** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984546 | XR_001749276 | **LOC107984546** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.934 |
| 107984547 | XR_001749277 | **LOC107984547** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984548 | XR_001749283,XR_ | **LOC107984548** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984551 | XR_001749964 | **LOC107984551** | uncharacterized LOC107 | lncRNA | 7 | 12 | 8 | 13 | 1.517 |
| 107984552 | XR_001749973 | **LOC107984552** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984553 | XR_001749956 | **LOC107984553** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984554 | XR_001749988 | **LOC107984554** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984555 | XR_001750072 | **LOC107984555** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984558 | XR_001750069 | **LOC107984558** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984559 | XR_001749987 | **LOC107984559** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984561 | XR_001749874,XR_ | **LOC107984561** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.956 |
| 107984563 | XR_001749983 | **LOC107984563** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984564 | XR_001749930 | **LOC107984564** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.068 |
| 107984566 | XR_001749972 | **LOC107984566** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984567 | XR_002957497 | **LOC107984567** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 107984568 | XR_001750074 | **LOC107984568** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984569 | XR_001749970 | **LOC107984569** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984570 | XR_001749867,XR_ | **LINC00444** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.945 |
| 107984572 | XR_001750066 | **LOC107984572** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984573 | XR_001749968 | **LOC107984573** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984574 | XR_001749980 | **LOC107984574** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984575 | XR_001749981,XR_ | **LOC107984575** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984576 | XR_001749854 | **LOC107984576** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984577 | XR_001749803 | **LOC107984577** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.971 |
| 107984578 | XR_001749863,XR_ | **LOC107984578** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.964 |
| 107984579 | XR_001749843 | **LOC107984579** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984580 | XR_001749845 | **LOC107984580** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984581 | XR_001750003 | **LOC107984581** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984582 | XR_001749772,XR_ | **LOC107984582** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984583 | XR_001750038 | **LOC107984583** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 107984584 | XR_001749808 | **LOC107984584** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984585 | XR_001749787 | **LOC107984585** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.176 |
| 107984587 | XR_001749928 | **LOC107984587** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984588 | XR_001749984 | **LOC107984588** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.754 |
| 107984589 | XR_001749817,XR_ | **LOC107984589** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984590 | XM_017020903 | **LOC107984590** | proline-rich extensin-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984591 | XR_001750037 | **LOC107984591** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984593 | XR_001750051 | **LOC107984593** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984594 | XR_001749866 | **LOC107984594** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984596 | XR_001749861 | **LOC107984596** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984597 | XR_001749798 | **LOC107984597** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984599 | XR_001749779,XR_ | **LOC107984599** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984601 | XR_001749856 | **LOC107984601** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984602 | XR_001750018 | **LOC107984602** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984604 | XR_001749822 | **LOC107984604** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984606 | XR_001749993,XR_ | **LOC107984606** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984607 | XR_001749996 | **LOC107984607** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984608 | XR_001749997 | **LOC107984608** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984609 | XR_001749999 | **LOC107984609** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984610 | XR_001749794 | **LOC107984610** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984611 | XR_001749851 | **LOC107984611** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984613 | XR_001750022,XR_ | **LOC107984613** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 107984615 | XR_001750081,XR_ | **LOC107984615** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984616 | XR_001750084 | **LOC107984616** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984617 | XR_001749962 | **LOC107984617** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 107984618 | XR_001750032 | **LOC107984618** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984619 | XR_001749860 | **LOC107984619** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.898 |
| 107984620 | XR_001749917,XR_ | **LOC107984620** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984621 | XR_001749952,XR_ | **LOC107984621** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984622 | XR_001749894 | **LOC107984622** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984624 | XR_001749990,XR_ | **LOC107984624** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984625 | XR_001749886,XR_ | **LOC107984625** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984626 | XR_001750000 | **LOC107984626** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 107984627 | XR_001750001,XR_ | **LOC107984627** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984628 | XR_001750947 | **LOC107984628** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984629 | XR_001751014 | **LOC107984629** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984630 | XR_001751015 | **LOC107984630** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984634 | XR_001751028,XR_ | **LOC107984634** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984635 | XR_001751025 | **LOC107984635** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984636 | gene-FKBP1BP1 | **FKBP1BP1** | FKBP prolyl isomerase 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984637 | XR_001750936 | **LINC02279** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984638 | XM_024449798 | **LOC107984638** | arf-GAP with GTPase, AI | protein_coding | 0 | 0 | 1 | 1 | 1.094 |
| 107984639 | XR_001750935 | **LOC107984639** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984640 | NM_001330236 | **LBHD2** | LBH domain containing 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984641 | XR_001750929,XR_ | **LOC107984641** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984642 | XR_001750928 | **LOC107984642** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984643 | XR_001750627 | **LOC107984643** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.862 |
| 107984644 | XR_001750927 | **LOC107984644** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984645 | XR_001750933 | **LOC107984645** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984646 | XR_001750937 | **LOC107984646** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984647 | XR_001750931 | **LOC107984647** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.175 |
| 107984649 | XR_001750634 | **LOC107984649** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984650 | XR_001750635,XR_ | **LOC107984650** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984651 | XR_001750637 | **LOC107984651** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107984652 | XR_001750829 | **LOC107984652** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984653 | XR_001750830 | **LOC107984653** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.218 |
| 107984654 | XR_001750820 | **LOC107984654** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984655 | XR_001750792 | **LOC107984655** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.155 |
| 107984656 | XR_001750782 | **LOC107984656** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984658 | XR_001750901 | **LOC107984658** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984659 | XR_001750902 | **LOC107984659** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.031 |
| 107984660 | XR_001750639,XR_ | **LOC107984660** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.036 |
| 107984661 | XR_001750903 | **LOC107984661** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984663 | XR_001750860,XR_ | **LOC107984663** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984664 | XR_001750769 | **LOC107984664** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984665 | XR_001750649 | **LOC107984665** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 107984667 | XR_001750665 | **LOC107984667** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.088 |
| 107984668 | XR_001750716 | **LOC107984668** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984669 | XR_001750850 | **LOC107984669** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984670 | XR_001750917 | **LOC107984670** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984671 | XR_001750622,XR_ | **LOC107984671** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984673 | XR_001750858 | **LOC107984673** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984674 | XR_001750746 | **LOC107984674** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984676 | XR_001750978,XR_ | **LOC107984676** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984679 | XR_001750996 | **LOC107984679** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984681 | XR_001750713 | **LOC107984681** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984682 | XR_001750758 | **LOC107984682** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984684 | XR_001750691 | **LOC107984684** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984685 | XR_001750694,XR_ | **LOC107984685** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984686 | XR_001750795,XR_ | **LOC107984686** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984689 | XR_001750825 | **LOC107984689** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984690 | XR_001750826 | **LOC107984690** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984691 | XR_001750849 | **LOC107984691** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984692 | XR_001750785,XR_ | **LOC107984692** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984693 | XR_001750862 | **LOC107984693** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984694 | gene-LOC10798469 | **LOC107984694** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984695 | XR_001750806,XR_ | **LOC107984695** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.873 |
| 107984696 | XR_001750878 | **LOC107984696** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.974 |
| 107984697 | XR_001750891,XR_ | **LOC107984697** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984698 | XR_001750894 | **LOC107984698** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984699 | XR_001750851 | **LOC107984699** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984700 | XR_001750924 | **LINC02306** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984701 | XR_001750759,XR_ | **LOC107984701** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.226 |
| 107984702 | XR_001750960 | **LOC107984702** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984703 | NR_148060 | **LOC107984703** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984704 | XR_001750835,XR_ | **LOC107984704** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984705 | XR_001750619 | **LOC107984705** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 107984706 | XR_001750873,XR_ | **LOC107984706** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984708 | XR_001750768 | **LOC107984708** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 107984709 | XR_001750793 | **LOC107984709** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.022 |
| 107984710 | XR_001750863 | **LOC107984710** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984711 | XR_001750998 | **LOC107984711** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984713 | XR_001751795 | **LOC107984713** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.973 |
| 107984714 | XR_001751796,XR_ | **LOC107984714** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984715 | XR_001751799 | **LOC107984715** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984716 | XR_001751787,XR_ | **LOC107984716** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984718 | XR_001751786 | **LOC107984718** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 107984720 | gene-LOC10798472 | **LOC107984720** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984724 | XR_001751738 | **LOC107984724** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984725 | XR_001751736 | **LOC107984725** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 107984727 | XR_001751746 | **LOC107984727** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984728 | XM_024450115 | **LOC107984728** | serine-aspartate repeat-c | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984731 | XR_001751740 | **LOC107984731** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984732 | gene-LOC10798473 | **LOC107984732** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984733 | XR_001751737 | **LOC107984733** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984734 | XR_001751739 | **LOC107984734** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984735 | XR_001751743 | **LOC107984735** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984736 | XR_001751589 | **LOC107984736** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984737 | XR_001751590 | **LOC107984737** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984739 | XR_001751735 | **LOC107984739** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984740 | XR_001751714 | **LOC107984740** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984741 | XR_001751541 | **LOC107984741** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.093 |
| 107984743 | XR_001751429 | **LOC107984743** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984745 | XM_017022786 | **LOC107984745** | uncharacterized mitocho | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984746 | XR_001751465 | **LOC107984746** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 107984747 | XR_001751660 | **LOC107984747** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984748 | XR_001751476 | **LOC107984748** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.730 |
| 107984749 | XR_001751630,XR_ | **LOC107984749** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.960 |
| 107984750 | XR_001751627 | **LOC107984750** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984751 | XM_017022803,XM | **LOC107984751** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984754 | XR_001751591 | **LOC107984754** | uncharacterized LOC107 | lncRNA | 4 | 3 | 5 | 4 | 0.864 |
| 107984755 | XR_001751523 | **LOC107984755** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984756 | XR_001751533 | **LOC107984756** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984757 | XR_001751534 | **LOC107984757** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984758 | XR_001751535 | **LOC107984758** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984759 | gene-LOC10798475 | **LOC107984759** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984760 | XR_001751484 | **LOC107984760** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984761 | gene-LOC10798476 | **LOC107984761** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984763 | XR_001751506 | **LOC107984763** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984764 | XR_001751693,XR_ | **LINC02253** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984766 | XR_001751460 | **LOC107984766** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984770 | XR_001751446 | **LOC107984770** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984772 | XR_001751617 | **LOC107984772** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.936 |
| 107984773 | NR_147199,NR_147 | **LINC01852** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984774 | XR_001751483 | **LOC107984774** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984776 | XR_001751477 | **LOC107984776** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984777 | XR_001751651 | **LOC107984777** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.677 |
| 107984778 | XR_001751659 | **LOC107984778** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.892 |
| 107984780 | XR_001751448,XR_ | **LINC02248** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984781 | XR_001751594 | **LOC107984781** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984782 | XR_001751569,XR_ | **LOC107984782** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984783 | XR_001751571 | **LOC107984783** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984784 | NR_148210 | **LOC107984784** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984785 | XR_001751431 | **LOC107984785** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984787 | XR_001751440,XR_ | **LOC107984787** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984788 | XR_001751592 | **LOC107984788** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984789 | XR_001751756 | **LOC107984789** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 107984790 | XR_001751711 | **LOC107984790** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984791 | XR_001751595 | **LOC107984791** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984792 | XR_001751522 | **LOC107984792** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984793 | XR_001751439 | **LOC107984793** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984794 | XR_001751511 | **LOC107984794** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984798 | XR_001751584 | **LOC107984798** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984800 | XR_001751685 | **LOC107984800** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984801 | XR_001751596,XR_ | **LOC107984801** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984802 | XR_001751567 | **LOC107984802** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984803 | XR_001751568 | **LOC107984803** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984805 | XR_001751773,XR_ | **LOC107984805** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984806 | XR_001752381 | **LOC107984806** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984807 | gene-LOC10798480 | **LOC107984807** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984809 | gene-LOC10798480 | **LOC107984809** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984811 | XR_001752391 | **LINC02132** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 1.084 |
| 107984812 | XR_001752332 | **LOC107984812** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984813 | NR_158165 | **LOC107984813** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.907 |
| 107984814 | XM_017023920 | **LOC107984814** | uncharacterized LOC107 | protein_coding | 2 | 2 | 3 | 3 | 0.912 |
| 107984815 | XR_001752329 | **LOC107984815** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984816 | gene-LOC10798481 | **LOC107984816** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984817 | XM_017023972 | **LOC107984817** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984819 | XR_001752396 | **LOC107984819** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984821 | XR_001752244 | **LOC107984821** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107984822 | XR_001752333 | **LOC107984822** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984823 | XR_001752334 | **LOC107984823** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984824 | XR_001752330 | **LOC107984824** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984825 | XR_001752109 | **LOC107984825** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.923 |
| 107984826 | XR_001752110 | **LOC107984826** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984827 | XR_001752253 | **LOC107984827** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984828 | XR_001752066 | **LOC107984828** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984829 | gene-LOC10798482 | **LOC107984829** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984830 | XR_001752394 | **LOC107984830** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984831 | XR_001752102 | **LOC107984831** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984832 | XM_017023984 | **LOC107984832** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.163 |
| 107984833 | XM_017023985 | **LOC107984833** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984834 | XR_001752351 | **LOC107984834** | uncharacterized LOC107 | lncRNA | 2 | 3 | 3 | 4 | 1.261 |
| 107984835 | XR_001752361 | **LOC107984835** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984836 | XR_001752362 | **LOC107984836** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.094 |
| 107984837 | XR_001752363 | **LOC107984837** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.715 |
| 107984839 | XR_001752052 | **LOC107984839** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984840 | XR_001752071 | **LOC107984840** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984842 | XR_001752302,XR_ | **LOC107984842** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.161 |
| 107984844 | XR_001752094,XR_ | **LOC107984844** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.097 |
| 107984850 | XR_001737607,XR_ | **LOC107984850** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984851 | XM_017023983,XR_ | **LOC107984851** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984852 | XR_001752221 | **LOC107984852** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.938 |
| 107984855 | XR_001752131 | **LOC107984855** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984856 | XR_001752251 | **LOC107984856** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984858 | XR_001752273,XR_ | **LOC107984858** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984859 | XM_017023924,XM | **LOC107984859** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984861 | XR_001752048 | **LOC107984861** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984862 | XM_017023969 | **LOC107984862** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984865 | XR_001752089 | **LOC107984865** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984867 | XR_001752227,XR_ | **LOC107984867** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984868 | XR_001737836 | **LOC107984868** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984869 | XR_001752339 | **LOC107984869** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984871 | XR_001752304,XR_ | **LOC107984871** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984872 | XR_001737841,XR_ | **LOC107984872** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984874 | XR_001752113 | **LOC107984874** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984875 | XR_001752116 | **LOC107984875** | uncharacterized LOC107 | lncRNA | 5 | 5 | 6 | 6 | 0.882 |
| 107984876 | XM_017023922 | **LOC107984876** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984877 | XR_001752079 | **LOC107984877** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984878 | XR_001752257,XR_ | **LOC107984878** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984880 | XR_001752084 | **LOC107984880** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984881 | XR_001752245 | **LOC107984881** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984884 | NR_147198 | **MMP2-AS1** | MMP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984886 | XR_001752173,XR_ | **LOC107984886** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984887 | XR_001752177 | **LOC107984887** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984888 | XR_001752104,XR_ | **LOC107984888** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984889 | XR_001752210,XR_ | **LOC107984889** | uncharacterized LOC107 | lncRNA | 7 | 8 | 8 | 9 | 1.074 |
| 107984890 | XR_001752298 | **LOC107984890** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 107984891 | gene-LOC10798489 | **LOC107984891** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984892 | XR_001752181 | **LOC107984892** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.596 |
| 107984893 | XR_001752092,XR_ | **LOC107984893** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984894 | XR_001752238 | **LOC107984894** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984895 | XR_001752055 | **LOC107984895** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984896 | gene-LOC10798489 | **LOC107984896** | . | pseudogene | 0 | 0 | 1 | 1 | 1.118 |
| 107984897 | XR_001752267 | **LOC107984897** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984898 | XR_001752049,XR_ | **LOC107984898** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984900 | XR_001752076 | **LOC107984900** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984901 | XR_001752184,XR_ | **LOC107984901** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984902 | XM_017023962 | **LOC107984902** | sal-like protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984903 | XR_001752172 | **LOC107984903** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984904 | XR_001737863 | **LOC107984904** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984905 | XR_001752299,XR_ | **LOC107984905** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984906 | XR_001752051 | **LOC107984906** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 107984909 | XR_001737869 | **LOC107984909** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984910 | XR_001737870 | **LOC107984910** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.103 |
| 107984911 | XR_001737879 | **LOC107984911** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984912 | XR_001737881,XR_ | **LOC107984912** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984913 | XR_001737882 | **LOC107984913** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984915 | XR_001737892,XR_ | **LOC107984915** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984917 | XR_001737895 | **LOC107984917** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.917 |
| 107984918 | XR_001737896 | **LOC107984918** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984919 | XR_001737897 | **LOC107984919** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984921 | NR_147210,NR_147 | **LINC01772** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 107984928 | XR_001737926 | **LOC107984928** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 107984929 | XR_001737927 | **LOC107984929** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.087 |
| 107984931 | XR_001737929 | **LOC107984931** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984932 | XR_001737942 | **LOC107984932** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984933 | XR_001737955 | **LOC107984933** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984934 | XR_001737956,XR_ | **LOC107984934** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984935 | XR_001737961 | **LOC107984935** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984936 | gene-LOC10798493 | **LOC107984936** | . | pseudogene | 0 | 0 | 1 | 1 | 1.182 |
| 107984940 | XR_001737976 | **LOC107984940** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 2.138 |
| 107984941 | XR_001737977 | **LOC107984941** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984942 | XR_001737978,XR_ | **LOC107984942** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984943 | XR_001737993 | **LOC107984943** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984945 | XR_001738017,XR_ | **LOC107984945** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984946 | XR_001738020 | **LOC107984946** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984947 | XR_001738027 | **MED8-AS1** | MED8 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984948 | XR_001738029 | **LOC107984948** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.854 |
| 107984950 | XR_001738031 | **LOC107984950** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.011 |
| 107984951 | XR_001738035 | **LOC107984951** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984952 | XR_001738036 | **LOC107984952** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.935 |
| 107984953 | XR_001738040 | **LINC01738** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984954 | XR_001738043 | **LOC107984954** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984955 | XR_001738045 | **ELAVL4-AS1** | ELAVL4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984956 | XR_001738046 | **LOC107984956** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984957 | XR_001738058 | **LINC02812** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.046 |
| 107984958 | XR_001738059 | **DHCR24-DT** | DHCR24 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 1.100 |
| 107984960 | XR_001738073,XR_ | **LOC107984960** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984961 | XR_001738081 | **LOC107984961** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984962 | XR_001738091 | **LOC107984962** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984963 | XR_001738092 | **LOC107984963** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984964 | XR_001738095 | **LOC107984964** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984965 | XR_001738096,XR_ | **LOC107984965** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984966 | XR_001738100 | **LOC107984966** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984967 | XR_001738104 | **LOC107984967** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984969 | XR_001753092 | **LOC107984969** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.665 |
| 107984970 | gene-LOC10798497 | **LOC107984970** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984971 | gene-LOC10798497 | **LOC107984971** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984972 | gene-LOC10798497 | **LOC107984972** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984974 | NM_001350575,NM | **LOC107984974** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107984976 | XR_001753054 | **LOC107984976** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984977 | XR_001753053 | **LINC02096** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984979 | XR_001753057 | **LOC107984979** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984980 | XR_001753051 | **LOC107984980** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984982 | XR_001753060 | **LOC107984982** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984983 | XR_001753058,XR_ | **LOC107984983** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984984 | XR_001752967 | **LOC107984984** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.771 |
| 107984986 | XR_001752968 | **LOC107984986** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.094 |
| 107984988 | XR_001752757 | **LOC107984988** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984989 | XR_001752801,XR_ | **LOC107984989** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.834 |
| 107984990 | XR_001752823 | **LOC107984990** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984991 | gene-LOC10798499 | **LOC107984991** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107984992 | XR_001752959,XR_ | **LOC107984992** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984993 | XR_001752947 | **LOC107984993** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 107984995 | XR_001752813 | **LINC02094** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107984996 | XR_001753052 | **LOC107984996** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984997 | XR_001738110 | **LOC107984997** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.948 |
| 107984998 | XR_001738111 | **LOC107984998** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107984999 | XR_001752929 | **LOC107984999** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 107985000 | XR_001752973 | **LOC107985000** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 107985001 | XR_001752942 | **LOC107985001** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985002 | XR_001752943 | **LOC107985002** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 107985004 | XR_001752791 | **LOC107985004** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.122 |
| 107985005 | XR_001752991 | **LOC107985005** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985006 | XR_001752992 | **LOC107985006** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985007 | XR_001752891 | **LOC107985007** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.122 |
| 107985009 | XR_001752877 | **LOC107985009** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 107985010 | XR_001753034 | **LOC107985010** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.250 |
| 107985011 | XR_001752790 | **LOC107985011** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985012 | XR_001752828 | **LOC107985012** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 107985013 | XR_001753017 | **LOC107985013** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985014 | XR_001752793 | **LOC107985014** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985015 | XR_001753061 | **LOC107985015** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985017 | XR_001752776 | **LOC107985017** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985018 | XR_001738115 | **LOC107985018** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985019 | XR_001753020 | **LOC107985019** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.875 |
| 107985020 | XR_001752961,XR_ | **LOC107985020** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985021 | XM_017025504 | **LOC107985021** | flocculation protein FLO1 | protein_coding | 0 | 0 | 1 | 1 | 1.010 |
| 107985022 | XM_017025505 | **LOC107985022** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985023 | XR_001753015,XR_ | **LOC107985023** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985026 | gene-LOC10798502 | **LOC107985026** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985027 | XR_001752923 | **LOC107985027** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 107985028 | XR_001752915 | **LOC107985028** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985029 | XR_001753127 | **LOC107985029** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985031 | XR_001752869 | **LOC107985031** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.254 |
| 107985032 | XR_001752849 | **LOC107985032** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.890 |
| 107985033 | NR_138031,NR_138 | **LOC107985033** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.188 |
| 107985034 | XR_001753014 | **LOC107985034** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.244 |
| 107985035 | XR_001752829,XR_ | **LOC107985035** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985036 | XR_001752835,XR_ | **LOC107985036** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985037 | XR_001738121 | **LOC107985037** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985038 | XR_001752840 | **LOC107985038** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985039 | XR_001752841 | **LOC107985039** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985040 | XR_001752908 | **LOC107985040** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.893 |
| 107985041 | XR_001738122 | **LOC107985041** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985043 | XR_001738123 | **LOC107985043** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985044 | XR_001752906 | **LOC107985044** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985046 | XR_001738124 | **LOC107985046** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.978 |
| 107985047 | XR_001753036 | **LOC107985047** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985048 | XR_001752952 | **LOC107985048** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985049 | gene-LOC10798504 | **LOC107985049** | . | pseudogene | 0 | 0 | 1 | 1 | 0.988 |
| 107985050 | XR_001753035 | **LOC107985050** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.896 |
| 107985051 | XR_001752812 | **LOC107985051** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985052 | gene-LOC1079850 | **LOC107985052** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985053 | XR_001752762,XR_ | **LOC107985053** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985054 | XR_001738126 | **LOC107985054** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.033 |
| 107985055 | XR_001752867 | **LOC107985055** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985056 | XR_001752868 | **LOC107985056** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985057 | XR_001738127 | **LOC107985057** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 107985059 | XR_001753128,XR_ | **LOC107985059** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985061 | gene-LOC1079850 | **LOC107985061** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985063 | XR_001752789 | **LOC107985063** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985064 | XR_001752883 | **LOC107985064** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985065 | XR_001752948 | **LOC107985065** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985067 | XR_001752851 | **LOC107985067** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985068 | XR_001752854 | **LOC107985068** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985071 | XR_001752787 | **LOC107985071** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985072 | XR_001752885,XR_ | **LOC107985072** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985073 | XR_001752988 | **LOC107985073** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985074 | XR_001753006,XR_ | **LOC107985074** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985075 | XR_001752778 | **LOC107985075** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.036 |
| 107985076 | XR_002958332 | **LOC107985076** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 0.823 |
| 107985077 | XR_001752896 | **LOC107985077** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985078 | XR_001753005 | **LOC107985078** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985079 | XR_001753032 | **LOC107985079** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.157 |
| 107985080 | XR_001752798,XR_ | **LOC107985080** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985081 | XR_001752998,XR_ | **LOC107985081** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985082 | XM_017025510 | **LOC107985082** | leucine-rich repeat-conta | protein_coding | 1 | 1 | 2 | 2 | 0.826 |
| 107985085 | XR_001752894,XR_ | **LOC107985085** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985086 | XR_001752899 | **LOC107985086** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985087 | XR_001753033 | **LOC107985087** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985088 | XR_001738143,XR_ | **LOC107985088** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985089 | XR_001753021,XR_ | **LOC107985089** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985090 | XR_001752884 | **LOC107985090** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985091 | XR_001752994,XR_ | **LOC107985091** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985092 | XR_001738151,XR_ | **ARHGAP29-AS1** | ARHGAP29 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985093 | XR_001738163 | **LOC107985093** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985094 | XR_001738165 | **LOC107985094** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985095 | XR_001738167 | **LOC107985095** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985096 | XR_001738168 | **LOC107985096** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985097 | gene-LOC1079850 | **LOC107985097** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985098 | gene-LOC1079850 | **LOC107985098** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985099 | gene-DNAJB6P6 | **DNAJB6P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985100 | gene-LOC1079851 | **LOC107985100** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985101 | gene-LOC1079851 | **LOC107985101** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985102 | gene-MPHOSPH6P | **MPHOSPH6P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985104 | gene-LOC1079851 | **LOC107985104** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985106 | gene-LOC1079851 | **LOC107985106** | . | pseudogene | 0 | 0 | 1 | 1 | 0.905 |
| 107985107 | gene-LOC1079851 | **LOC107985107** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985110 | gene-LOC1079851 | **LOC107985110** | . | pseudogene | 0 | 0 | 1 | 1 | 0.985 |
| 107985113 | gene-LOC1079851 | **LOC107985113** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985114 | gene-LOC1079851 | **LOC107985114** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985115 | NR_168396,NR_168 | **LOC107985115** | LOC107985115 | lncRNA | 1 | 1 | 2 | 2 | 0.986 |
| 107985116 | XR_001738170 | **LOC107985116** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985118 | XR_001753554 | **LOC107985118** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985119 | XR_001753548 | **LOC107985119** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985120 | XR_001753553 | **LOC107985120** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.758 |
| 107985122 | gene-LOC1079851 | **LOC107985122** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985124 | XR_001738173 | **LINC02785** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985125 | XR_001753541 | **LOC107985125** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985126 | XR_001753533,XR_ | **LOC107985126** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985128 | XR_001753544 | **LINC01916** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985129 | XR_001753547 | **LOC107985129** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985130 | XR_001753504 | **LOC107985130** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985131 | gene-LOC1079851 | **LOC107985131** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985132 | XR_001753537 | **LOC107985132** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985134 | XR_001753488 | **LOC107985134** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985135 | XR_001753489 | **LOC107985135** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985136 | XR_001753490 | **LOC107985136** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985137 | XR_001753327,XR_ | **LOC107985137** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985138 | XR_001753491 | **LOC107985138** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985139 | XR_001753408,XR_ | **LOC107985139** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.851 |
| 107985140 | XR_001753461 | **WDR7-OT1** | WDR7 overlapping trans | lncRNA | 0 | 0 | 1 | 1 | 0.959 |
| 107985141 | XR_001753375,XR_ | **LOC107985141** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985142 | XR_001753381,XR_ | **LOC107985142** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985143 | XR_001753384 | **LOC107985143** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985144 | XR_001753330 | **LOC107985144** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.250 |
| 107985145 | XR_001753332,XR_ | **LOC107985145** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985147 | XR_001753444 | **LOC107985147** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 107985149 | XM_017026111 | **LOC107985149** | histidine-rich protein PFI | protein_coding | 0 | 0 | 1 | 1 | 1.009 |
| 107985151 | XR_001753506 | **LOC107985151** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107985152 | XR_001753449,XR_ | **LOC107985152** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985153 | XR_001753562 | **LOC107985153** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.015 |
| 107985154 | XR_001753363,XR_ | **LOC107985154** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985155 | XR_001753316 | **LOC107985155** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985156 | XR_001753470 | **LOC107985156** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985157 | XR_001753403 | **LOC107985157** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985158 | XR_001753494 | **LOC107985158** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985159 | XR_001738178 | **LOC107985159** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985160 | gene-LOC10798516 | **LOC107985160** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985161 | XR_001753365 | **LOC107985161** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985162 | XR_001753518 | **LOC107985162** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985163 | XR_001753519 | **LOC107985163** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985164 | XR_001753453,XR_ | **LOC107985164** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985165 | XR_001753317 | **LOC107985165** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985166 | XR_001753497,XR_ | **LOC107985166** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985167 | XR_001738180 | **LINC01768** | long intergenic non-prote | lncRNA | 4 | 3 | 5 | 4 | 0.880 |
| 107985168 | XR_001753427 | **LOC107985168** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985171 | XR_001753510,XR_ | **LOC107985171** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985172 | XR_001753512 | **LOC107985172** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985173 | XR_001753355,XR_ | **LOC107985173** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985174 | XR_001738182,XR_ | **LOC107985174** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985176 | XR_001753336,XR_ | **LOC107985176** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985177 | XR_001753505 | **LOC107985177** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985178 | XR_001753480 | **LOC107985178** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985179 | XR_001753502 | **LOC107985179** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985180 | XR_001738188 | **LOC107985180** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.889 |
| 107985181 | XR_001753370 | **LOC107985181** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985182 | XR_001753465 | **LOC107985182** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985183 | XR_001753452 | **LOC107985183** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985184 | NR_160737 | **LOC107985184** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.799 |
| 107985186 | XR_001753401 | **LOC107985186** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985188 | XR_001753549 | **LOC107985188** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.947 |
| 107985189 | XR_001738193,XR_ | **LOC107985189** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985190 | XR_001738196 | **LINC01779** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985191 | XR_001738198 | **LOC107985191** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985192 | XR_001738199 | **LOC107985192** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985193 | XR_001738200 | **LOC107985193** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985194 | XR_001738201 | **LINC02798** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.845 |
| 107985195 | XR_001738202 | **LINC01691** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985200 | XR_001738207,XR_ | **LOC107985200** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985201 | XR_001738209 | **LOC107985201** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 107985203 | XR_001738230 | **LOC107985203** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 107985204 | XR_001738231 | **LOC107985204** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985206 | XR_001738237,XR_ | **LOC107985206** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985207 | XR_001738244 | **LOC107985207** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.043 |
| 107985208 | XR_001738245 | **LOC107985208** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 107985209 | XR_001738246,XR_ | **LOC107985209** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.163 |
| 107985210 | XR_001738248 | **ARHGEF2-AS1** | ARHGEF2 antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985211 | XR_001738250,XR_ | **LOC107985211** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 107985212 | XR_001738256 | **LOC107985212** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985213 | XR_001738257,XR_ | **LOC107985213** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985215 | XR_001738259,XR_ | **LOC107985215** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985216 | XR_001738261,XR_ | **LOC107985216** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.996 |
| 107985217 | XR_001738264 | **LOC107985217** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 107985219 | XR_001738265 | **LOC107985219** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985220 | XR_001738266 | **LOC107985220** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 107985221 | XR_001738270 | **LOC107985221** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985222 | gene-LOC10798522 | **LOC107985222** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985223 | XR_001738274 | **LOC107985223** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985224 | XR_001738279 | **LOC107985224** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985225 | XR_001738297 | **LOC107985225** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.188 |
| 107985227 | XR_001738298 | **LOC107985227** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985228 | XR_001738304 | **LINC02803** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 107985229 | XR_001738312 | **LINC02818** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985230 | XR_001738315 | **LOC107985230** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.914 |
| 107985231 | XR_001738318 | **LOC107985231** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.083 |
| 107985232 | XR_001738319 | **LOC107985232** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985233 | XR_001738320,XR_ | **LOC107985233** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985235 | XR_001738322 | **LOC107985235** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985236 | XR_001738327,XR_ | **LOC107985236** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985238 | XR_001738336,XR_ | **LOC107985238** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985239 | XR_001738339,XR_ | **LOC107985239** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.885 |
| 107985241 | XR_001738348 | **LOC107985241** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.635 |
| 107985242 | XR_001738351,XR_ | **LOC107985242** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985243 | XR_001738357 | **LOC107985243** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985244 | XR_001738358 | **LOC107985244** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985245 | XR_001738359 | **LOC107985245** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.700 |
| 107985246 | NR_160746,NR_160 | **LOC107985246** | uncharacterized LOC107 | lncRNA | 5 | 6 | 6 | 7 | 1.188 |
| 107985249 | XR_001738390 | **BMNCR** | bone marrow associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985250 | XR_001738417,XR_ | **LOC107985250** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.844 |
| 107985251 | XR_001738422 | **LOC107985251** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985253 | XR_001738423,XR_ | **LOC107985253** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985254 | XR_001738430 | **LINC01735** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985255 | XR_001738441,XR_ | **LOC107985255** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985256 | XR_001738443 | **LOC107985256** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985257 | XR_001738444 | **LINC02602** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985258 | XR_001738446 | **LOC107985258** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985259 | XR_001738447 | **LOC107985259** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.910 |
| 107985260 | XR_001738448 | **LOC107985260** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985261 | XR_001738449 | **LOC107985261** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985262 | XR_001738460 | **LOC107985262** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.066 |
| 107985263 | XR_001738465 | **LOC107985263** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985264 | gene-LOC1079852 | **LOC107985264** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985265 | gene-LOC1079852 | **LOC107985265** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985268 | XR_001754030 | **LOC107985268** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985269 | XR_001754031 | **LOC107985269** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985270 | XR_001754034 | **LOC107985270** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985271 | XR_001754032 | **LOC107985271** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985272 | XR_001738471 | **LOC107985272** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985273 | XR_001754037 | **LOC107985273** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985274 | gene-RPS27AP19 | **RPS27AP19** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985276 | gene-LOC1079852 | **LOC107985276** | . | pseudogene | 0 | 0 | 1 | 1 | 1.163 |
| 107985278 | XR_001753845 | **LOC107985278** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985279 | XR_001754003,XR_ | **LOC107985279** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985280 | XR_001754033 | **LINC01834** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985281 | XR_001738476 | **LOC107985281** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985282 | XR_001753859 | **LOC107985282** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985284 | XR_001753854 | **LOC107985284** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985285 | XR_002958408,XR_ | **LOC107985285** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985286 | XR_001753870 | **LOC107985286** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985287 | XR_001753872 | **LOC107985287** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985288 | XR_001753873,XR_ | **LOC107985288** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985289 | XR_001753939 | **LOC107985289** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.058 |
| 107985290 | XR_001753936 | **LOC107985290** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985291 | XR_001753937 | **LOC107985291** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985293 | XR_001753965,XR_ | **LOC107985293** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985295 | XR_001753826,XR_ | **LOC107985295** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 107985296 | XR_001738480 | **LOC107985296** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985297 | XR_001753847 | **LOC107985297** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.145 |
| 107985299 | XR_001753940 | **LOC107985299** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985300 | XR_001738482 | **LOC107985300** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985301 | XR_001753935 | **LOC107985301** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985302 | XR_001753853 | **LOC107985302** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.083 |
| 107985303 | XR_001753834 | **LOC107985303** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.939 |
| 107985304 | XR_001753933 | **LOC107985304** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 107985305 | XR_001753953,XR_ | **LOC107985305** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.952 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107985306 | XR_001753955,XR_ | **LOC107985306** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985307 | XR_001738485 | **LINC01705** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985308 | XR_001753879 | **LOC107985308** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985309 | XR_001753878 | **LOC107985309** | uncharacterized LOC107 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985311 | XR_001753896,XR_ | **LOC107985311** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985312 | NR_147209 | **LINC01791** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985314 | XR_001753958 | **LOC107985314** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.861 |
| 107985315 | XR_001753959 | **LOC107985315** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985317 | XR_001753932 | **LOC107985317** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985318 | XR_001738486 | **LOC107985318** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985320 | XM_017027552,XM_ | **LOC107985320** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.038 |
| 107985321 | XR_001753882 | **LOC107985321** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985322 | XR_001754017 | **LOC107985322** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985323 | XR_001738491 | **LOC107985323** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985324 | XR_001754087,XR_ | **LOC107985324** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985325 | XR_001754012,XR_ | **LOC107985325** | uncharacterized LOC107 | lncRNA | 5 | 6 | 6 | 7 | 1.105 |
| 107985326 | XR_001753981 | **LOC107985326** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985327 | XR_001753982,XR_ | **LOC107985327** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985329 | XR_001753941 | **LOC107985329** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985334 | XR_001753875,XR_ | **LOC107985334** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985335 | XR_001753889 | **LOC107985335** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985336 | XR_001753890 | **LOC107985336** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985337 | XR_001753835 | **LOC107985337** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985338 | XR_001738495,XR_ | **LINC02813** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985340 | XR_001753971 | **LOC107985340** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985341 | XR_001753980 | **LOC107985341** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985342 | XR_001753996 | **LOC107985342** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985343 | XR_001753829 | **LINC01836** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985345 | XR_001753891 | **LOC107985345** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985346 | XR_001753997,XR_ | **LOC107985346** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985347 | XR_001754007,XR_ | **LOC107985347** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985349 | XR_001754099,XR_ | **LOC107985349** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985352 | XR_001738499 | **LOC107985352** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985353 | NR_146443 | **ACBD3-AS1** | ACBD3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985354 | XR_001738506 | **LOC107985354** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985355 | NR_153418 | **LOC107985355** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.919 |
| 107985357 | XR_001738516 | **LOC107985357** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985358 | XR_001738517 | **LOC107985358** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985359 | XR_001738518 | **LOC107985359** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985360 | XR_001738520 | **LOC107985360** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 107985361 | XR_001738525 | **LOC107985361** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.088 |
| 107985362 | XR_001738526,XR_ | **LOC107985362** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985363 | XR_001738530 | **LOC107985363** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985364 | XR_001738532 | **LOC107985364** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985365 | XR_001738533,XR_ | **LOC107985365** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985366 | XR_001738535 | **LOC107985366** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985367 | XR_001738546 | **LOC107985367** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.819 |
| 107985368 | XR_001738551,XR_ | **LOC107985368** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985369 | XR_001738560 | **LOC107985369** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 107985371 | XR_001738566,XR_ | **LOC107985371** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985372 | XR_001738568 | **LOC107985372** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985373 | XR_001738572 | **LOC107985373** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.891 |
| 107985375 | XR_001738574 | **LOC107985375** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985376 | XR_001737775 | **LOC107985376** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985377 | XR_001737789 | **LOC107985377** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985379 | XR_001738093 | **LOC107985379** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985380 | gene-LOC1079853 | **LOC107985380** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985381 | XM_017028185 | **LOC107985381** | uncharacterized LOC107 | protein_coding | 1 | 1 | 2 | 2 | 1.176 |
| 107985382 | XR_001754726,XR_ | **LOC107985382** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985383 | XR_001754712 | **LOC107985383** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985385 | XR_001754721 | **LOC107985385** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985386 | XR_001754718 | **LOC107985386** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985387 | XR_001754708 | **LOC107985387** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985388 | XM_017028186 | **LOC107985388** | pre-mRNA-splicing factor | protein_coding | 1 | 1 | 2 | 2 | 1.267 |
| 107985389 | XR_001754729 | **LOC107985389** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985391 | XR_001737792 | **LOC107985391** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985392 | XR_001754479 | **LOC107985392** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985393 | XR_001754582 | **LOC107985393** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 107985394 | XR_001754743 | **LOC107985394** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985395 | XR_001754478 | **PANK2-AS1** | PANK2 antisense RNA 1 | lncRNA | 2 | 4 | 3 | 5 | 1.486 |
| 107985396 | XR_001737794 | **LOC107985396** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985397 | XR_001754584,XR_ | **LOC107985397** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985398 | XR_001754497 | **LOC107985398** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985399 | XR_001754518 | **LOC107985399** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 107985400 | XR_001754565,XR_ | **LOC107985400** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.115 |
| 107985401 | XR_001754648 | **LOC107985401** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985402 | XR_001754560,XR_ | **LOC107985402** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985403 | XR_001754578 | **LOC107985403** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985404 | XR_001754634,XR_ | **LOC107985404** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985405 | XR_001754640 | **LOC107985405** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.218 |
| 107985406 | XR_001754498 | **LOC107985406** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985407 | XR_001754499 | **LOC107985407** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985408 | XR_001737795 | **LOC107985408** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985409 | XR_001754459,XR_ | **LOC107985409** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985410 | XM_017028198 | **LOC107985410** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985411 | XR_001754484,XR_ | **LOC107985411** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985412 | XR_001737797 | **LOC107985412** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985413 | XR_001754524 | **LOC107985413** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985414 | XR_001754477 | **LOC107985414** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985416 | XM_017028193,XM_ | **LOC107985416** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985417 | XR_001737798 | **LOC107985417** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985418 | XR_001754517 | **LOC107985418** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985420 | XR_001737800 | **LOC107985420** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985421 | gene-LOC1079854 | **LOC107985421** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985423 | XR_001754452 | **LOC107985423** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.915 |
| 107985427 | XR_001754673 | **LOC107985427** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985429 | XR_001754754 | **LOC107985429** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985430 | XR_001754755 | **LOC107985430** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985432 | XR_001754554 | **LOC107985432** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985433 | XM_017028192 | **LOC107985433** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985434 | XR_001754692 | **LOC107985434** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985435 | XR_001754598 | **LOC107985435** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985436 | XR_001754650,XR_ | **LOC107985436** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985437 | XR_001754652 | **LOC107985437** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985438 | XR_001754555,XR_ | **LOC107985438** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985439 | XR_001754657 | **LOC107985439** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985440 | XR_001754508,XR_ | **LOC107985440** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985441 | XR_001754616 | **LOC107985441** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985442 | XR_001754521 | **LOC107985442** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985443 | XR_001737803 | **LOC107985443** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985446 | XR_001754595 | **LOC107985446** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985447 | XR_001737805 | **LOC107985447** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985448 | XR_001754587 | **LOC107985448** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985449 | XR_001754537 | **LOC107985449** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985451 | XR_001737807 | **LOC107985451** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985452 | XR_001737808 | **LOC107985452** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985453 | gene-LOC1079854 | **LOC107985453** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985454 | XR_001737809 | **LOC107985454** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985455 | XR_001737810 | **LOC107985455** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 107985456 | XR_001737811 | **LINC01701** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.716 |
| 107985457 | XR_001737812 | **LINC02770** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985458 | XR_001737815 | **LOC107985458** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985459 | XR_001737816,XR_ | **LOC107985459** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985460 | XR_001737818,XR_ | **LOC107985460** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985461 | XR_001737821 | **LOC107985461** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985462 | XR_001737823 | **LOC107985462** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107985463 | XR_001737828 | **LINC01641** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985464 | XR_001737829 | **LOC107985464** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985465 | XR_001737831 | **LOC107985465** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985466 | XR_001737832,XR_ | **LOC107985466** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985467 | XR_001737610,XR_ | **LOC107985467** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985468 | XR_001737615 | **LOC107985468** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985469 | XR_001737616 | **LOC107985469** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985470 | XR_001737617 | **LOC107985470** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985471 | XR_001737627,XR_ | **PEF1-AS1** | PEF1 and COL16A1 anti | lncRNA | 1 | 0 | 2 | 1 | 0.722 |
| 107985472 | gene-LOC10798547 | **LOC107985472** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985474 | XR_001755129 | **LOC107985474** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.086 |
| 107985475 | gene-LOC10798547 | **LOC107985475** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985478 | XR_001755103 | **LOC107985478** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985479 | XR_001755104 | **LOC107985479** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985480 | XR_001755102 | **LOC107985480** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985481 | XR_001755010 | **LOC107985481** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.031 |
| 107985482 | XR_001754957 | **LOC107985482** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985483 | XR_001755094 | **LOC107985483** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985484 | XR_001755054,XR_ | **LOC107985484** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985485 | XR_001755092 | **LOC107985485** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.874 |
| 107985486 | XR_001754998,XR_ | **LOC107985486** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 107985487 | XR_001755003 | **LOC107985487** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985488 | XR_001755005 | **LOC107985488** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985490 | XR_001755097 | **LOC107985490** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985492 | XR_001755028,XR_ | **LOC107985492** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985494 | XR_001755100 | **LOC107985494** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985495 | XR_001755059 | **LOC107985495** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985497 | XR_001755084 | **LOC107985497** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.987 |
| 107985499 | XR_001755056 | **LOC107985499** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985500 | XR_001755057 | **LOC107985500** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985501 | gene-LOC1079855( | **LOC107985501** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985502 | XR_001755063 | **LOC107985502** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985504 | XR_001755071 | **LOC107985504** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985505 | XR_001755009 | **LOC107985505** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985506 | XR_001755122 | **LOC107985506** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985507 | XR_001755036 | **LOC107985507** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985508 | XR_001754978 | **LOC107985508** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985509 | XR_001754979 | **LOC107985509** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985511 | XR_001754973,XR_ | **LOC107985511** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985512 | XR_001754980,XR_ | **LOC107985512** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985513 | XR_001755040 | **LOC107985513** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985515 | XR_001755016 | **LOC107985515** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985516 | XR_001754982 | **LOC107985516** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985517 | XR_001737666,XR_ | **LOC107985517** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.024 |
| 107985518 | XR_001737675,XR_ | **LOC107985518** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985519 | XR_001737677 | **LINC01773** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985521 | XR_001737683 | **LOC107985521** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.914 |
| 107985522 | XR_001737690 | **LOC107985522** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.039 |
| 107985523 | XR_001737693 | **LOC107985523** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 107985524 | NR_168400 | **LOC107985524** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.823 |
| 107985528 | id-LOC107985528 | **LOC107985528** | immunoglobulin kappa v | V_segment | 0 | 0 | 1 | 1 | 1.000 |
| 107985529 | XR_001755624 | **LOC107985529** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985530 | gene-LOC1079855 | **LOC107985530** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985532 | XM_017029165 | **LOC107985532** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.012 |
| 107985533 | gene-LOC1079855 | **LOC107985533** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985534 | XR_001755607 | **LOC107985534** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985535 | XM_017029166 | **LOC107985535** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985536 | XR_001755616 | **LOC107985536** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985537 | XR_001755613 | **LOC107985537** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985538 | XR_001755552,XR_ | **SGSM3-AS1** | SGSM3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985541 | XR_001755482,XR_ | **LOC107985541** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985542 | XR_001755432 | **LOC107985542** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985543 | XR_001755440,XR_ | **LOC107985543** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985544 | NR_146603 | **LOC107985544** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.417 |
| 107985545 | XR_001755504 | **LOC107985545** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985549 | XR_002958744,XR_ | **LOC107985549** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.837 |
| 107985550 | XR_001755576 | **LOC107985550** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985551 | XR_001755557 | **LOC107985551** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.956 |
| 107985553 | XR_001755604 | **LOC107985553** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 107985554 | XR_001755448 | **LOC107985554** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985555 | XM_017029168,XM_ | **LOC107985555** | coiled-coil domain-contai | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985556 | XM_017029177,XM_ | **LOC107985556** | vegetative cell wall prote | protein_coding | 0 | 0 | 1 | 1 | 1.062 |
| 107985557 | gene-LOC1079855 | **LOC107985557** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985558 | XR_001755455 | **LOC107985558** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.972 |
| 107985561 | XR_001755499,XR_ | **LOC107985561** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985562 | XR_001755546 | **LOC107985562** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985563 | XR_001755547 | **LOC107985563** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.955 |
| 107985564 | XR_001755582 | **LOC107985564** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.283 |
| 107985565 | XR_001755630 | **LOC107985565** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985566 | XR_001755594 | **LOC107985566** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985567 | XR_001755555 | **LOC107985567** | protein LLP homolog pse | transcribed_pseu | 2 | 2 | 3 | 3 | 0.961 |
| 107985568 | XR_001755606 | **LOC107985568** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985570 | XR_001755584 | **LOC107985570** | uncharacterized LOC107 | lncRNA | 4 | 3 | 5 | 4 | 0.794 |
| 107985571 | XR_001755585 | **LOC107985571** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 107985573 | XR_001755419 | **LOC107985573** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.876 |
| 107985576 | XR_001755534 | **LOC107985576** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 107985577 | XR_001755453,XR_ | **LOC107985577** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985578 | NR_147197 | **NCF4-AS1** | NCF4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985579 | XR_001755490 | **LOC107985579** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985580 | XR_001755452 | **LOC107985580** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985581 | XR_001755596 | **LOC107985581** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985582 | XR_001755472 | **LOC107985582** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985584 | XR_001755617 | **LOC107985584** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985588 | XR_001755623 | **LOC107985588** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985590 | XR_001755511 | **LOC107985590** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985591 | XR_001737756 | **LOC107985591** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985593 | XR_001737758 | **LOC107985593** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985594 | XR_001737759 | **LOC107985594** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985595 | XR_001737760 | **LOC107985595** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.035 |
| 107985596 | XR_001737763 | **LOC107985596** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985599 | XR_001737772 | **LOC107985599** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |
| 107985614 | rna-TRNAV-CAC | **TRNAV-CAC** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985615 | rna-TRNAV-CAC-2 | **TRNAV-CAC** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985627 | XR_001756000 | **LOC107985627** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985628 | gene-S100A11P5 | **S100A11P5** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985629 | gene-LOC1079856 | **LOC107985629** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985630 | gene-LOC1079856 | **LOC107985630** | family with sequence sim | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985631 | gene-SMIM15P1 | **SMIM15P1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985632 | XR_001755983 | **LOC107985632** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985634 | XR_001755795,XR_ | **LOC107985634** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985635 | XR_001755986 | **LOC107985635** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985637 | XR_001755981,XR_ | **LOC107985637** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985638 | XR_001755998 | **LOC107985638** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985639 | gene-S100A11P7 | **S100A11P7** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985640 | gene-LOC1079856 | **LOC107985640** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985641 | gene-LOC1079856 | **LOC107985641** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985642 | gene-LOC1079856 | **LOC107985642** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985643 | gene-LOC1079856 | **LOC107985643** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985644 | gene-LOC1079856 | **LOC107985644** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985645 | gene-LOC1079856 | **LOC107985645** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985646 | XR_001755985 | **LOC107985646** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985647 | XR_001755988 | **LOC107985647** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985648 | XR_001755994 | **LOC107985648** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985650 | XR_001755996 | **LOC107985650** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985651 | XR_001755993 | **LOC107985651** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985652 | XR_001755982 | **LOC107985652** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107985653 | XR_001755987 | **LOC107985653** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985655 | gene-S100A11P9 | **S100A11P9** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985656 | XR_001755801,XR_ | **LOC107985656** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985657 | XM_017030004 | **LOC107985657** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 107985658 | XR_001755797 | **LOC107985658** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985659 | gene-LOC1079856 | **LOC107985659** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985660 | gene-S100A11P8 | **S100A11P8** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985661 | XR_001755934,XR_ | **LOC107985661** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985662 | XR_001755991,XR_ | **LOC107985662** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985664 | XR_001755885,XR_ | **LOC107985664** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985665 | XR_001755896,XR_ | **LOC107985665** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 107985666 | XR_001755995 | **LOC107985666** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985667 | XR_001755972 | **LOC107985667** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.345 |
| 107985669 | XR_001755899 | **LOC107985669** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985670 | XR_001755900 | **LOC107985670** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985674 | XR_001755823 | **LOC107985674** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985675 | XR_001755782,XR_ | **LOC107985675** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.795 |
| 107985676 | XR_001755791 | **LOC107985676** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985677 | XR_001755774,XR_ | **LOC107985677** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985678 | XM_017030007 | **LOC107985678** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985679 | XR_001755874 | **LOC107985679** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.072 |
| 107985680 | XR_001755939,XR_ | **LOC107985680** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985681 | XR_001755944 | **LOC107985681** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985682 | gene-LOC1079856 | **LOC107985682** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985683 | XR_001755877 | **LOC107985683** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985684 | XR_001755960,XR_ | **LOC107985684** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985686 | XR_001755803 | **LOC107985686** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 107985687 | XM_017030006 | **LOC107985687** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.139 |
| 107985688 | XR_001755878 | **LOC107985688** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985691 | gene-LOC1079856 | **LOC107985691** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985692 | XM_017030016,XM | **LOC107985692** | A-kinase anchor protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985693 | XR_001755973 | **LOC107985693** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 107985694 | XR_001755949 | **LOC107985694** | uncharacterized LOC107 | lncRNA | 2 | 0 | 3 | 1 | 0.558 |
| 107985695 | XR_001755842 | **LOC107985695** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985697 | XR_001755747,XR_ | **LOC107985697** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985698 | XR_002958819 | **LOC107985698** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985699 | XR_001755959 | **LOC107985699** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985700 | XR_001755913 | **LOC107985700** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985701 | XR_001755800 | **LOC107985701** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985703 | XR_001755968 | **LOC107985703** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985704 | XR_001755914,XR_ | **LOC107985704** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985705 | XR_001755967 | **LOC107985705** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985706 | XR_001755764,XR_ | **LOC107985706** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 107985707 | XR_001755820,XR_ | **LOC107985707** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985708 | XR_001755858,XR_ | **LOC107985708** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985709 | XR_001755952,XR_ | **LOC107985709** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985710 | XR_001755916 | **LOC107985710** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985711 | XR_001755825,XR_ | **LINC01283** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985712 | XR_001755857 | **LOC107985712** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985713 | XR_001755911 | **LOC107985713** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985714 | XR_001755917 | **LOC107985714** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985715 | XR_001755792,XR_ | **LOC107985715** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985716 | XR_001755794 | **LOC107985716** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985717 | XR_001755839,XR_ | **LOC107985717** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985718 | gene-S100A11P6 | **S100A11P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985719 | XR_001755947,XR_ | **LOC107985719** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.942 |
| 107985720 | XR_001756002 | **LOC107985720** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.843 |
| 107985721 | XR_001737606 | **LOC107985721** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 107985725 | XR_001737765 | **LOC107985725** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 107985726 | XR_001737773 | **LOC107985726** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985727 | gene-LOC1079857 | **LOC107985727** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985728 | NR_168405 | **LOC107985728** | collagen alpha-1(III) chai | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985729 | XM_017003066 | **LOC107985729** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985730 | XR_001737835 | **MIR1302-2HG** | MIR1302-2 host gene, tra | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985732 | XR_001737864 | **LOC107985732** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985733 | XR_001737880 | **LOC107985733** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.966 |
| 107985736 | XR_001737913 | **LOC107985736** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985737 | XR_001737930 | **MYOM3-AS1** | MYOM3 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985740 | XR_001738008,XR_ | **LINC02811** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985743 | XR_002958333 | **LOC107985743** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.459 |
| 107985744 | XR_001738140 | **LOC107985744** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.157 |
| 107985745 | XR_001738282 | **LOC107985745** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985746 | XR_001738536 | **LOC107985746** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985747 | XR_001738577 | **LOC107985747** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985748 | rna-TRG-CCC6-1 | **TRG-CCC6-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985749 | rna-TRV-CAC5-1 | **TRV-CAC5-1** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985750 | rna-TRN-GTT27-1 | **TRN-GTT27-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985751 | rna-TRN-GTT9-1 | **TRN-GTT9-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985752 | rna-TRN-GTT25-1 | **TRN-GTT25-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985753 | rna-TRNAV-CAC-3 | **TRNAV-CAC** | tRNA-Val | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985754 | rna-TRN-GTT10-1 | **TRN-GTT10-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985755 | rna-TRQ-CTG3-1 | **TRQ-CTG3-1** | tRNA-Gln | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985756 | rna-TRN-GTT24-1 | **TRN-GTT24-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985757 | rna-TRN-GTT5-1 | **TRN-GTT5-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985758 | rna-TRE-TTC4-1 | **TRE-TTC4-1** | tRNA-Glu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985759 | rna-TRG-CCC4-1 | **TRG-CCC4-1** | tRNA-Gly | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985760 | rna-TRK-CTT7-1 | **TRK-CTT7-1** | tRNA-Lys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985761 | rna-TRC-GCA7-1 | **TRC-GCA7-1** | tRNA-Cys | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985762 | rna-TRN-GTT7-1 | **TRN-GTT7-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985763 | rna-TRN-GTT11-1 | **TRN-GTT11-1** | tRNA-Asn | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985766 | XR_001739091 | **LOC107985766** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985767 | XR_001739092 | **LOC107985767** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.928 |
| 107985768 | XR_001739093 | **LOC107985768** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985769 | XR_001739097 | **LOC107985769** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985770 | NR_164153,NR_164 | **LOC107985770** | MANTIS | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985771 | XR_001739109 | **LOC107985771** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985772 | XR_001739110 | **LOC107985772** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.445 |
| 107985773 | XM_017005436 | **LOC107985773** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985774 | XR_001739114 | **LOC107985774** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985775 | XR_001739117 | **LOC107985775** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985776 | XR_001739122 | **LOC107985776** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985778 | XM_017005439 | **LOC107985778** | serine protease 40-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985779 | XR_001739132,XR_ | **LOC107985779** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985780 | XR_001739138 | **LOC107985780** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.914 |
| 107985781 | NR_144453,NR_144 | **FSIP2-AS1** | FSIP2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985782 | XR_001739142 | **LOC107985782** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985783 | XR_001739143,XR_ | **LOC107985783** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 107985784 | XR_001739148 | **LOC107985784** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.946 |
| 107985785 | XR_001739163 | **LOC107985785** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.173 |
| 107985786 | XR_001739168 | **LOC107985786** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985787 | XR_001739174,XR_ | **LOC107985787** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985788 | XR_001739177 | **LOC107985788** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.878 |
| 107985789 | gene-LOC1079857 | **LOC107985789** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985790 | gene-SRSF3P6 | **SRSF3P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985791 | gene-PPIAP60 | **PPIAP60** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985792 | XM_017005441 | **LOC107985792** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985793 | gene-ARL14EPP1 | **ARL14EPP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985795 | XM_017005442 | **LOC107985795** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985797 | gene-LOC1079857 | **LOC107985797** | . | pseudogene | 0 | 0 | 1 | 1 | 0.998 |
| 107985798 | XM_024453271 | **LOC107985798** | histone-lysine N-methylt | protein_coding | 0 | 0 | 1 | 1 | 1.074 |
| 107985801 | gene-LOC1079858 | **LOC107985801** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985802 | gene-LOC1079858 | **LOC107985802** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985804 | gene-LOC1079858 | **LOC107985804** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985805 | XM_024453265 | **LOC107985805** | sine oculis-binding prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985806 | XR_001739184 | **LINC01866** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985807 | XR_001739185 | **LOC107985807** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107985808 | XR_001739188 | **LOC107985808** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985809 | XR_001739189,XR_ | **LOC107985809** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985810 | XR_001739191 | **LOC107985810** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985811 | XR_001739192 | **LOC107985811** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985812 | XR_001739193 | **LOC107985812** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985813 | gene-RPL38P6 | **RPL38P6** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985814 | XR_001739198,XR_ | **LOC107985814** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985815 | XR_001739201 | **LOC107985815** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985817 | XR_001739204,XR_ | **LOC107985817** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985818 | NR_147208 | **LINC01826** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985819 | XR_001739208 | **LOC107985819** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985820 | NR_147976 | **LOC107985820** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985821 | XR_001739214 | **LOC107985821** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985822 | XR_001739215 | **LOC107985822** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985823 | XR_001739216 | **LOC107985823** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985824 | XR_001739217 | **LOC107985824** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985825 | XR_001739218 | **LOC107985825** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985826 | XR_001739219 | **LOC107985826** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985827 | XR_001739220 | **LOC107985827** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985828 | XR_001739221 | **LOC107985828** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985829 | XR_001739222 | **LOC107985829** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985830 | XR_001739224 | **LOC107985830** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985831 | XR_001739227 | **LOC107985831** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985832 | XR_001739228 | **LOC107985832** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985833 | XR_001739229 | **LOC107985833** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985834 | gene-SEC61GP1 | **SEC61GP1** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985835 | XR_001739232 | **LOC107985835** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985836 | XR_001739238 | **LOC107985836** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985838 | XR_001739250,XR_ | **LOC107985838** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985839 | XR_001739253 | **LOC107985839** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985840 | XR_001739256,XR_ | **LOC107985840** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.965 |
| 107985841 | XR_001739260 | **LOC107985841** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985842 | XR_001739261 | **LOC107985842** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985843 | XR_001739262,XR_ | **LOC107985843** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985844 | XR_001739264,XR_ | **LINC01824** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985845 | XR_001739267 | **LOC107985845** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985846 | gene-LOC10798584 | **LOC107985846** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985847 | XR_001739269 | **LOC107985847** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985848 | XR_001739272 | **LOC107985848** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985849 | XR_001739275 | **LOC107985849** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985850 | XR_001739278 | **LOC107985850** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985851 | XR_001739279 | **LOC107985851** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985852 | XR_001739281 | **LOC107985852** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985853 | XR_001739290 | **LOC107985853** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985854 | XR_001739296 | **LOC107985854** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985855 | XR_001739298,XR_ | **LOC107985855** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985856 | NR_157978 | **LOC107985856** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985857 | XR_001739331 | **LOC107985857** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985858 | XR_001739333,XR_ | **LOC107985858** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985859 | XR_001739337 | **LOC107985859** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985861 | XR_001739383,XR_ | **LOC107985861** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985862 | XR_001739385,XR_ | **LOC107985862** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 107985863 | XR_001739390,XR_ | **LOC107985863** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985864 | XR_001739395 | **LOC107985864** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985865 | XR_001739399 | **LOC107985865** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985866 | XR_001739400 | **LOC107985866** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985868 | XR_001739402,XR_ | **LOC107985868** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985869 | XR_001739409 | **LOC107985869** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985870 | XR_001739410 | **LOC107985870** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985871 | XR_001739413 | **LOC107985871** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985872 | XR_001739414,XR_ | **LOC107985872** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985873 | XR_001739426 | **LOC107985873** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 107985874 | XR_001739427 | **LOC107985874** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985875 | XR_002959382 | **LOC107985875** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.855 |
| 107985876 | XM_017005459,XM | **LOC107985876** | uncharacterized LOC107 | protein_coding | 1 | 1 | 2 | 2 | 1.140 |
| 107985877 | XR_001739444 | **LOC107985877** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.003 |
| 107985878 | XR_001739445 | **LOC107985878** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985879 | NR_147194,NR_147 | **LINC01833** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985880 | XR_001739449 | **LOC107985880** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985882 | XR_001739451 | **LOC107985882** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985883 | XR_001739463 | **LOC107985883** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985885 | XR_001739477 | **LOC107985885** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.108 |
| 107985886 | XR_001739482 | **LOC107985886** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985888 | XR_001739504 | **LOC107985888** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985889 | XR_001739513 | **LOC107985889** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985890 | XR_001739519 | **LOC107985890** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985891 | XR_001739520 | **LOC107985891** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985892 | XR_001739526,XR_ | **LOC107985892** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985893 | XR_001739530 | **LINC01888** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.083 |
| 107985894 | XR_001739531 | **LOC107985894** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985895 | XR_001739532 | **LOC107985895** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985896 | XM_017005461 | **LOC107985896** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985897 | XR_001739535 | **LOC107985897** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.986 |
| 107985898 | XR_001739537 | **LOC107985898** | uncharacterized LOC107 | lncRNA | 1 | 2 | 2 | 3 | 1.143 |
| 107985900 | XR_001739545,XR_ | **LOC107985900** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.756 |
| 107985902 | XR_001739553,XR_ | **LOC107985902** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985903 | XR_001739569 | **LOC107985903** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985904 | XR_001739570 | **LOC107985904** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985905 | XR_001739572 | **LOC107985905** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985906 | XR_001739574 | **LOC107985906** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.905 |
| 107985907 | gene-SNRPEP11 | **SNRPEP11** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985908 | XR_001739577 | **LOC107985908** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985909 | XR_001739579 | **LOC107985909** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985910 | XR_001739586 | **LOC107985910** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985911 | NR_160761,NR_160 | **LOC107985911** | lymphocyte specific prote | transcribed_pseu | 0 | 0 | 1 | 1 | 0.689 |
| 107985915 | XR_001739592,XR_ | **LOC107985915** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.996 |
| 107985916 | XR_001739599 | **LOC107985916** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985917 | XR_002959409 | **LOC107985917** | tripartite motif-containing | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107985920 | XR_001739602 | **LOC107985920** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985921 | XR_001739603 | **LOC107985921** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |
| 107985922 | XR_001739605 | **LOC107985922** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985923 | XR_001739606 | **LOC107985923** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985924 | XR_001739610,XR_ | **LINC01868** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985925 | XR_001739614 | **LINC01870** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985926 | XR_001739615,XR_ | **LOC107985926** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985927 | XR_001739617,XR_ | **LOC107985927** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985928 | XR_001739621,XR_ | **LINC01965** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985929 | XR_001739626 | **LOC107985929** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985930 | XR_001739628 | **LOC107985930** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985931 | XM_017005473,XM | **LOC107985931** | anaphase-promoting com | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107985933 | XR_001739641 | **LOC107985933** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 107985934 | XR_001739642 | **LOC107985934** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985936 | XR_001739651,XR_ | **LOC107985936** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.691 |
| 107985937 | XR_001739660 | **LOC107985937** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985938 | XR_001739661 | **LOC107985938** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985939 | NR_158150 | **LOC107985939** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 0.926 |
| 107985940 | XR_001739662 | **LOC107985940** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985941 | XR_001739665 | **LOC107985941** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985942 | XR_001739683 | **LOC107985942** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.945 |
| 107985943 | XR_001739690 | **LOC107985943** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985944 | XR_001739707 | **LOC107985944** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.166 |
| 107985945 | XR_001739711 | **LOC107985945** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985946 | NR_163478 | **LOC107985946** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.922 |
| 107985947 | XR_001739716 | **LOC107985947** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985948 | XR_001739719 | **LOC107985948** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985949 | XR_001739723 | **LOC107985949** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.995 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107985950 | XR_001739738,XR_ | **LOC107985950** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985951 | XR_001739740 | **LINC01850** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985952 | XR_001739745 | **LOC107985952** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985953 | XR_001739746,XR_ | **LOC107985953** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985955 | XR_001739753 | **LOC107985955** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985957 | XR_001739759 | **LOC107985957** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985958 | XR_001739762 | **LOC107985958** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985959 | XR_001739763,XR_ | **LOC107985959** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 107985960 | XR_001739773,XR_ | **LOC107985960** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985961 | XR_001739793 | **LOC107985961** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985962 | XR_001739794 | **LOC107985962** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985963 | gene-LOC1079859( | **LOC107985963** | . | pseudogene | 0 | 0 | 1 | 1 | 1.080 |
| 107985965 | XR_001739799 | **LOC107985965** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985966 | XR_001739800 | **LOC107985966** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985967 | XR_001739815 | **LOC107985967** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985968 | XR_001739820 | **LOC107985968** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985969 | XR_001739832 | **LOC107985969** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985972 | XR_001739837 | **LOC107985972** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985976 | XR_001739860 | **LOC107985976** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985977 | XR_001739866 | **LOC107985977** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985978 | XR_001739867 | **LOC107985978** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985979 | XR_001739868 | **LOC107985979** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985980 | XR_001739870 | **LOC107985980** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985981 | XR_001739871,XR_ | **LOC107985981** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.825 |
| 107985982 | gene-LOC1079859( | **LOC107985982** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107985983 | XR_001739876,XR_ | **LOC107985983** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985984 | XR_001739879,XR_ | **LOC107985984** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985985 | XR_001739881 | **SMARCAL1-AS1** | SMARCAL1 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985986 | XR_001739885 | **LOC107985986** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985987 | XR_001739887 | **LOC107985987** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985988 | XR_001739895,XR_ | **LOC107985988** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985989 | XR_001739900,XR_ | **LOC107985989** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985990 | XR_001739902 | **LOC107985990** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985991 | XR_001739903 | **LOC107985991** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985992 | XR_001739907 | **LOC107985992** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985993 | XR_001739909 | **LOC107985993** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985994 | XR_001739917 | **LOC107985994** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985995 | XR_001739918 | **LOC107985995** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985996 | XR_001739919 | **LOC107985996** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107985997 | XR_001739920 | **LOC107985997** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.939 |
| 107985998 | XR_001739927 | **LOC107985998** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.833 |
| 107985999 | XR_001739929 | **LOC107985999** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986000 | XR_001739946 | **LOC107986000** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986001 | XR_001739950,XR_ | **LOC107986001** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986002 | XR_001739954 | **LOC107986002** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986003 | XR_001739969 | **LOC107986003** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 107986004 | XM_017005485 | **LOC107986004** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986007 | XR_001740412 | **LOC107986007** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986008 | XR_001740413 | **LOC107986008** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986009 | XR_001740419,XR_ | **LOC107986009** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986010 | XR_001740421 | **LOC107986010** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986011 | XR_001740424 | **LOC107986011** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986012 | XR_001740426 | **LOC107986012** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986013 | XR_001740427 | **LOC107986013** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986014 | gene-PPIAP71 | **PPIAP71** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986015 | XR_001740433 | **LOC107986015** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986016 | XR_001740435 | **LOC107986016** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986017 | XR_001740438 | **LOC107986017** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986018 | XR_001740441 | **LOC107986018** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986019 | XR_001740444,XR_ | **LOC107986019** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986020 | XR_001740452 | **LOC107986020** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986021 | XR_002959680 | **LOC107986021** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986022 | XR_001740491 | **LOC107986022** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986023 | XR_001740492 | **LOC107986023** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.990 |
| 107986024 | XR_001740495 | **LOC107986024** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986025 | XR_001740496 | **LOC107986025** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.048 |
| 107986027 | XR_001740533 | **LOC107986027** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986028 | XR_001740534 | **LOC107986028** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986029 | XR_001740536 | **LOC107986029** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986031 | XR_001740547 | **LOC107986031** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.755 |
| 107986032 | gene-LOC1079860( | **LOC107986032** | . | pseudogene | 0 | 0 | 1 | 1 | 0.870 |
| 107986033 | gene-LOC1079860( | **LOC107986033** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986034 | gene-KIAA1143P2 | **KIAA1143P2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986035 | XM_017007607 | **LOC107986035** | basic proline-rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986036 | gene-LOC1079860( | **LOC107986036** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986039 | gene-LOC1079860( | **LOC107986039** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986040 | XR_001740550 | **LOC107986040** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986041 | XR_001740553 | **LINC01967** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986042 | XR_001740555 | **LOC107986042** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986043 | XR_001740556,XR_ | **LOC107986043** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986044 | XR_001740563 | **LOC107986044** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986045 | XR_001740565 | **LOC107986045** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986046 | XR_001740566 | **LINC01998** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986047 | XR_001740567 | **LOC107986047** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986048 | XR_001740570 | **LOC107986048** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986049 | XR_001740571,XR_ | **LOC107986049** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986050 | XR_001740573 | **LOC107986050** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986051 | XR_001740574 | **LOC107986051** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986052 | XR_001740575 | **LOC107986052** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986053 | XR_001740576 | **LOC107986053** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986054 | XR_001740577 | **LOC107986054** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986055 | XR_001740578 | **LOC107986055** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986056 | XR_001740579 | **LOC107986056** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.858 |
| 107986057 | XR_001740581,XR_ | **LOC107986057** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986058 | XR_001740584 | **LOC107986058** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986059 | XR_001740585 | **LOC107986059** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986061 | XR_001740592 | **LOC107986061** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986063 | XR_001740603 | **XPC-AS1** | XPC antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.813 |
| 107986064 | XR_001740605,XR_ | **LOC107986064** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.924 |
| 107986065 | XR_001740608 | **LOC107986065** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.193 |
| 107986066 | XR_001740613,XR_ | **LOC107986066** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986067 | XR_001740618,XR_ | **LOC107986067** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 107986068 | XR_001740619 | **LOC107986068** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986069 | XR_001740622 | **LOC107986069** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986070 | XR_001740623 | **LOC107986070** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986071 | XR_001740624 | **LOC107986071** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986072 | XR_001740633 | **LOC107986072** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986073 | XR_001740634 | **LOC107986073** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986075 | XR_001740663 | **LOC107986075** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.901 |
| 107986076 | gene-LOC1079860( | **LOC107986076** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986077 | XR_001740668 | **LOC107986077** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986079 | XR_001740670,XR_ | **LOC107986079** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986080 | XR_001740672 | **LOC107986080** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986081 | XR_001740673 | **LOC107986081** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986082 | XR_001740680 | **LOC107986082** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986083 | XR_001740681 | **LOC107986083** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986084 | XM_017007618 | **LOC107986084** | Sjoegren syndrome nucl | protein_coding | 1 | 1 | 2 | 2 | 1.112 |
| 107986085 | XR_001740695 | **LINC02019** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.889 |
| 107986086 | XR_001740699 | **LOC107986086** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.886 |
| 107986087 | XR_001740700,XR_ | **LOC107986087** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986088 | XR_001740704,XR_ | **LOC107986088** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986089 | XR_001740709 | **LOC107986089** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986091 | XR_001740716 | **LOC107986091** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986092 | XR_001740719 | **LOC107986092** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986093 | XR_001740730 | **LOC107986093** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986094 | XR_001740739,XR_ | **LOC107986094** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107986095 | XR_001740741,XR_ | **LOC107986095** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986096 | NM_001364676,NM | **MDFIC2** | MyoD family inhibitor dor | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986097 | XR_001740752,XR_ | **LOC107986097** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986098 | XR_001740754 | **LOC107986098** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986099 | XR_001740759 | **LOC107986099** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986100 | NR_151705,NR_15 | **LINC02018** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986101 | gene-LOC1079861( | **LOC107986101** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986103 | XR_001740810 | **LOC107986103** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986104 | XR_001740816 | **LOC107986104** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986105 | XR_001740817 | **LOC107986105** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986106 | XR_001740827 | **LOC107986106** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986107 | XR_001740828 | **LOC107986107** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986108 | XR_001740829,XR_ | **LOC107986108** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986109 | XR_001740837 | **LOC107986109** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986110 | XR_001740838 | **LOC107986110** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986112 | XR_001740840 | **LOC107986112** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986113 | XM_017007620 | **LOC107986113** | endogenous retrovirus gi | protein_coding | 0 | 0 | 1 | 1 | 0.959 |
| 107986114 | XR_001740854,XR_ | **LOC107986114** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.024 |
| 107986115 | XR_001740856 | **LOC107986115** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.984 |
| 107986116 | XR_001740859 | **LOC107986116** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986118 | XR_001740861 | **LOC107986118** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 107986119 | XR_001740863,XR_ | **LOC107986119** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 0.882 |
| 107986120 | gene-LOC1079861: | **LOC107986120** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986121 | XR_001740867,XR_ | **LOC107986121** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986123 | XR_001740873 | **LOC107986123** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986124 | XR_001740882 | **LOC107986124** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986125 | XR_001740883,XR_ | **LINC02034** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986126 | XR_001740892 | **LOC107986126** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 107986127 | XR_001740893 | **LOC107986127** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986129 | XR_001740895,XR_ | **LOC107986129** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986131 | XR_001740905 | **LOC107986131** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986133 | XR_001740907 | **LOC107986133** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986135 | XR_001740927 | **LOC107986135** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.124 |
| 107986136 | XR_001740928,XR_ | **IL20RB-AS1** | IL20RB antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 107986138 | XR_001740945,XR_ | **LOC107986138** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986140 | XR_001740956 | **LOC107986140** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986141 | XR_001740958 | **LOC107986141** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986142 | XR_001740959 | **LOC107986142** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986147 | XR_001740977 | **LINC02083** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986148 | XR_001740978 | **LOC107986148** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 107986149 | XR_001740988 | **LOC107986149** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986150 | XR_001740996 | **LOC107986150** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986151 | XR_001741002 | **LOC107986151** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986152 | XR_001741013 | **LOC107986152** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986153 | XR_001741020 | **LOC107986153** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 107986154 | XR_001741024 | **LOC107986154** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986155 | XR_001741027 | **LOC107986155** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986156 | XR_001741028 | **LOC107986156** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986157 | XR_001741031 | **LOC107986157** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986160 | XR_001741040 | **LOC107986160** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.875 |
| 107986161 | XR_001741041 | **LOC107986161** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.999 |
| 107986162 | XR_001741042 | **LOC107986162** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.976 |
| 107986163 | NR_160768 | **LOC107986163** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.824 |
| 107986164 | NR_151708,NR_15 | **LINC02020** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986165 | XR_001741057 | **LINC02051** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986166 | XR_001741061,XR_ | **LOC107986166** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986167 | XR_001741063,XR_ | **LOC107986167** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986168 | XR_001741067 | **LOC107986168** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986169 | XR_001741068 | **LOC107986169** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986171 | XR_001741070 | **LOC107986171** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986172 | XR_001741081 | **LOC107986172** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986173 | XR_001741086 | **LOC107986173** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986174 | XR_001741087 | **LOC107986174** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986175 | XM_017007622 | **LOC107986175** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986176 | gene-LOC1079861 | **LOC107986176** | . | pseudogene | 0 | 0 | 1 | 1 | 0.881 |
| 107986177 | XR_001741091 | **LOC107986177** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986178 | XR_001741361,XR_ | **LOC107986178** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986179 | XR_001741367 | **LOC107986179** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986180 | XR_001741368 | **LOC107986180** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986181 | XR_001741376,XR_ | **LOC107986181** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986182 | XR_001741379,XR_ | **LOC107986182** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986183 | XR_001741388 | **LOC107986183** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986184 | XR_001741389 | **LOC107986184** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986185 | XR_001741392 | **LOC107986185** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986186 | XR_001741393 | **LOC107986186** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986187 | XR_001741394 | **LOC107986187** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.033 |
| 107986188 | XR_001741396 | **LOC107986188** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.831 |
| 107986189 | XR_001741408 | **LOC107986189** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986190 | XR_001741415 | **LOC107986190** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986192 | NR_165235 | **LOC107986192** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986193 | XR_001741431 | **LOC107986193** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986194 | XR_001741435 | **LOC107986194** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986195 | XR_001741441 | **LOC107986195** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986196 | XR_001741442 | **LOC107986196** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.877 |
| 107986197 | XR_001741447 | **LOC107986197** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 107986198 | XR_001741448 | **LOC107986198** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986199 | XR_001741449 | **PALLD-AS1** | PALLD antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986200 | XR_001741450 | **LOC107986200** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986201 | XR_001741451 | **LOC107986201** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986202 | gene-LOC1079862( | **LOC107986202** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986203 | XR_001741464 | **LOC107986203** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986204 | XR_001741465,XR_ | **LOC107986204** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986205 | XR_001741488,XR_ | **LOC107986205** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986206 | XR_001741494 | **LOC107986206** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.087 |
| 107986207 | gene-LOC1079862( | **LOC107986207** | . | pseudogene | 1 | 1 | 2 | 2 | 0.807 |
| 107986208 | gene-LOC1079862( | **LOC107986208** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986209 | gene-H3P14 | **H3P14** | . | pseudogene | 0 | 0 | 1 | 1 | 0.830 |
| 107986211 | XM_024454317 | **LOC107986211** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 107986214 | gene-LOC1079862: | **LOC107986214** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986215 | XM_017008885 | **LOC107986215** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986217 | XM_017008888 | **LOC107986217** | DNA-directed RNA polym | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986218 | XR_001741497 | **LOC107986218** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986219 | XR_001741498 | **LOC107986219** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986220 | XR_001741499 | **LOC107986220** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986221 | XR_001741501 | **LOC107986221** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986222 | XR_001741502 | **LOC107986222** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986223 | XR_001741503 | **LOC107986223** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986224 | XR_001741507 | **LOC107986224** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986225 | XR_001741509 | **LOC107986225** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986226 | XR_001741510 | **LINC02358** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986228 | XR_001741512,XR_ | **LOC107986228** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986229 | XR_001741513 | **LOC107986229** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986230 | XR_001741514 | **LOC107986230** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986231 | gene-LOC1079862: | **LOC107986231** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986232 | XR_001741515 | **LOC107986232** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986233 | XR_001741516 | **LINC01218** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986234 | XR_001741517 | **LOC107986234** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.867 |
| 107986235 | XR_001741519 | **LOC107986235** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986236 | XR_001741524 | **LOC107986236** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986237 | gene-LOC1079862: | **LOC107986237** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986238 | XR_001741526 | **LOC107986238** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986239 | XR_001741527 | **LOC107986239** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986240 | XR_001741529 | **LOC107986240** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986241 | XR_001741530 | **LINC02512** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986244 | XM_017008889 | **LOC107986244** | zinc finger protein 141-lik | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986245 | XR_001741542 | **LOC107986245** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107986246 | XR_001741543 | **LOC107986246** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.903 |
| 107986249 | XR_001741550 | **LOC107986249** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.079 |
| 107986250 | XR_001741551 | **LOC107986250** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.257 |
| 107986251 | XR_001741553 | **LINC02600** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986252 | XR_001741559 | **LOC107986252** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986253 | XR_001741563 | **LOC107986253** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986254 | XR_001741564 | **LOC107986254** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.970 |
| 107986256 | XR_001741565 | **LOC107986256** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986257 | XR_001741566 | **LOC107986257** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986258 | XR_001741569 | **LOC107986258** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986260 | XR_001741594 | **LOC107986260** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986261 | XR_001741595,XR_ | **LOC107986261** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 107986262 | XR_001741598,XR_ | **LOC107986262** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986263 | XR_001741604,XR_ | **LOC107986263** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986264 | XR_001741605 | **LINC02438** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986265 | XR_001741608 | **LOC107986265** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986266 | XR_001741616,XR_ | **LINC02473** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986268 | XR_001741636,XR_ | **LOC107986268** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986269 | XR_001741643 | **LOC107986269** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986270 | XR_001741653 | **LOC107986270** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986271 | XR_001741654 | **LOC107986271** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986272 | XR_001741655 | **LOC107986272** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986273 | XR_001741664 | **LOC107986273** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986275 | XR_001741677 | **LOC107986275** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986276 | XR_001741678 | **LOC107986276** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986277 | XR_001741679,XR_ | **LOC107986277** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.109 |
| 107986278 | gene-LOC10798627 | **LOC107986278** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986279 | XR_001741689 | **LOC107986279** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986281 | XR_001741691 | **LOC107986281** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986283 | XR_001741705 | **LOC107986283** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986284 | XR_001741711,XR_ | **LOC107986284** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986285 | XR_001741716 | **LOC107986285** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986286 | XR_001741718 | **LOC107986286** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986287 | XR_001741722 | **LOC107986287** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986289 | XR_001741728 | **LOC107986289** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986290 | XR_001741736 | **LOC107986290** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.109 |
| 107986291 | XR_001741737 | **LOC107986291** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986292 | XR_001741741,XR_ | **LOC107986292** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986293 | XR_001741746 | **LOC107986293** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986294 | XR_001741747 | **LOC107986294** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986295 | XR_001741767,XR_ | **LOC107986295** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986297 | XR_001741778,XR_ | **LOC107986297** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986298 | XR_001741783,XR_ | **LOC107986298** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.965 |
| 107986299 | XR_001741785 | **LOC107986299** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.229 |
| 107986300 | XR_001741786 | **LOC107986300** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986302 | XR_001741791 | **LOC107986302** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986303 | XR_001741792 | **LOC107986303** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.324 |
| 107986304 | XR_001741793 | **LOC107986304** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.001 |
| 107986305 | XR_001741794 | **LOC107986305** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986306 | XR_001741796,XR_ | **LOC107986306** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986307 | XR_001741801 | **LOC107986307** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986309 | XR_001741806 | **LOC107986309** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986310 | XR_001741807 | **LOC107986310** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986311 | XR_001741811,XR_ | **LINC02435** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986312 | XR_001741826 | **LOC107986312** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986313 | NR_151713 | **LINC02465** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986314 | XR_001741842 | **LOC107986314** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986315 | XR_001741843 | **LOC107986315** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986317 | XR_002959804 | **LOC107986317** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986319 | XR_001741884 | **LINC02430** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986320 | XR_001741885 | **LOC107986320** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986321 | XR_001741894 | **LOC107986321** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986322 | XR_001741902,XR_ | **LINC02272** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986324 | XR_001741911,XR_ | **LOC107986324** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986325 | XR_001741915,XR_ | **LOC107986325** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986326 | XR_001741918 | **LOC107986326** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986327 | XR_001741935 | **LOC107986327** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986328 | XR_001741936,XR_ | **LOC107986328** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986329 | XR_001741942 | **LOC107986329** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986330 | XR_001741943,XR_ | **LOC107986330** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986332 | XR_001741946 | **LOC107986332** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986333 | XR_001741949 | **LINC02437** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986334 | XR_002959825 | **LOC107986334** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986335 | XR_001741953 | **LOC107986335** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986336 | gene-LOC10798633 | **LOC107986336** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986337 | XR_001741958 | **LOC107986337** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986338 | XR_001741971 | **LOC107986338** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986343 | XR_001742395,XR_ | **LOC107986343** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986345 | XR_001742403 | **LOC107986345** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.985 |
| 107986346 | gene-LOC10798634 | **LOC107986346** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986347 | XR_001742409 | **LOC107986347** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986348 | XR_001742411 | **LOC107986348** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986350 | XR_001742414 | **LOC107986350** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986355 | XR_001742420,XR_ | **LOC107986355** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.923 |
| 107986356 | XR_001742426,XR_ | **LOC107986356** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 107986357 | XR_001742430 | **LOC107986357** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986358 | XR_001742431 | **LOC107986358** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986359 | XR_001742433 | **LOC107986359** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986360 | XR_001742435 | **LOC107986360** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.861 |
| 107986361 | XR_001742438 | **LOC107986361** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986362 | XR_001742448 | **LOC107986362** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986363 | XR_001742454 | **LOC107986363** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 107986364 | XR_001742456 | **LOC107986364** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.992 |
| 107986365 | XR_001742457 | **LOC107986365** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986366 | XR_001742459 | **LOC107986366** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986367 | XR_001742466 | **LOC107986367** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986368 | XR_001742470,XR_ | **LOC107986368** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986369 | XR_001742472 | **LOC107986369** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 107986370 | XR_001742490 | **LOC107986370** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986371 | gene-LOC10798637 | **LOC107986371** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986372 | XR_002956250 | **LOC107986372** | mitochondrial import rece | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107986373 | XR_002956251 | **LOC107986373** | mitochondrial import rece | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107986374 | gene-LOC10798637 | **LOC107986374** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986375 | gene-LOC10798637 | **LOC107986375** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986376 | XR_001742499,XR_ | **LOC107986376** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986377 | XR_001742503 | **LOC107986377** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986378 | gene-LOC10798637 | **LOC107986378** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986379 | XR_001742506 | **LOC107986379** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986380 | XR_001742510 | **LOC107986380** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986381 | XR_001742513 | **LOC107986381** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986382 | XR_001742515 | **LOC107986382** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986383 | XR_001742516 | **LOC107986383** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.089 |
| 107986384 | XR_001742518 | **LOC107986384** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986385 | XR_001742519 | **LOC107986385** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986386 | XR_001742521 | **LOC107986386** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986387 | XR_001742523 | **LOC107986387** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986388 | XR_001742524 | **LOC107986388** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986389 | XR_001742526 | **LINC02163** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986391 | XR_001742528 | **LOC107986391** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986392 | XR_001742537 | **LOC107986392** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986394 | XR_001742542 | **LOC107986394** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986395 | XR_001742543 | **LOC107986395** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986396 | XR_001742547 | **LOC107986396** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986397 | XR_001742548 | **LOC107986397** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986398 | XR_001742551 | **LOC107986398** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986399 | XR_001742554 | **LOC107986399** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107986400 | XR_001742557,XR_ | **LOC107986400** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986401 | XR_001742590 | **LOC107986401** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.296 |
| 107986402 | XR_001742592 | **LINC02196** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986403 | XR_001742597 | **LOC107986403** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986405 | XR_001742600 | **LOC107986405** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986406 | XR_001742607,XR_ | **LOC107986406** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986407 | XR_001742612 | **MARCHF11-AS1** | MARCHF11 antisense RI | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986408 | XR_001742616,XR_ | **LINC02100** | long intergenic non-prote | lncRNA | 2 | 2 | 3 | 3 | 0.932 |
| 107986409 | XR_001742621 | **LOC107986409** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986410 | XR_001742622,XR_ | **LOC107986410** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986411 | XR_001742630 | **LOC107986411** | uncharacterized LOC107 | lncRNA | 3 | 3 | 4 | 4 | 1.119 |
| 107986412 | XR_001742638,XR_ | **LOC107986412** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986413 | XR_001742640 | **LOC107986413** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986414 | XR_001742645 | **LOC107986414** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986415 | XR_001742668 | **LOC107986415** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986416 | XR_001742672,XR_ | **LOC107986416** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986418 | XR_001742680 | **LOC107986418** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986419 | XR_001742681,XR_ | **LOC107986419** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986420 | XR_001742692 | **LOC107986420** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986421 | XR_001742710,XR_ | **LOC107986421** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.908 |
| 107986422 | XR_001742742 | **LOC107986422** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.050 |
| 107986423 | XR_001742743 | **LOC107986423** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986424 | XR_001742749 | **LOC107986424** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 107986426 | XR_001742758 | **LOC107986426** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986427 | gene-LOC10798642 | **LOC107986427** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986428 | XR_001742759,XR_ | **LOC107986428** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.073 |
| 107986430 | XR_001742771 | **LOC107986430** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986431 | XR_001742776 | **LOC107986431** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986432 | XR_001742795,XR_ | **LOC107986432** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 107986433 | XR_001742801 | **LOC107986433** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986434 | XR_001742804 | **LOC107986434** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986435 | XR_001742817 | **LOC107986435** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986436 | XR_001742822 | **LOC107986436** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986437 | XR_001742825,XR_ | **LOC107986437** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.025 |
| 107986438 | XR_001742827,XR_ | **LOC107986438** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986439 | XR_001742835 | **LOC107986439** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986440 | XR_001742836 | **LOC107986440** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986441 | XR_001742840,XR_ | **LOC107986441** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986443 | NR_157226 | **LINCADL** | lincRNA adipogenesis ar | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986444 | XR_001742859 | **LOC107986444** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 107986445 | XR_002956223 | **ZNF474-AS1** | ZNF474 antisense RNA : | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986446 | XR_001742867 | **LOC107986446** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986447 | XR_001742868,XR_ | **PPIC-AS1** | PPIC antisense RNA 1, t | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986448 | XR_001742871 | **LOC107986448** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.701 |
| 107986449 | XR_001742881 | **LOC107986449** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986450 | XR_001742892 | **LOC107986450** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986451 | XR_001742893 | **LOC107986451** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986452 | XR_001742894 | **LOC107986452** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986453 | NM_001365196,XM_ | **LOC107986453** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.834 |
| 107986454 | XR_001742906 | **LOC107986454** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986455 | XR_001742907 | **LOC107986455** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986457 | XR_001742909 | **LOC107986457** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986458 | XR_001742912,XR_ | **LOC107986458** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986459 | XR_001742914 | **LOC107986459** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986461 | XR_001742922 | **LOC107986461** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986462 | XR_001742935 | **LOC107986462** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986463 | XR_001742936 | **LOC107986463** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.688 |
| 107986464 | XR_001742937 | **LOC107986464** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986465 | XR_001742939 | **LOC107986465** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.078 |
| 107986466 | XR_001742941 | **LOC107986466** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986467 | XR_001742942 | **LOC107986467** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986468 | XR_001742943 | **LOC107986468** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.835 |
| 107986469 | XR_001742945 | **LOC107986469** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986470 | XR_001742971 | **LOC107986470** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986472 | XR_001742973 | **LOC107986472** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986473 | XR_001742974,XR_ | **LOC107986473** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986474 | XR_001742976,XR_ | **LOC107986474** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986475 | XR_001742978 | **LOC107986475** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986476 | XR_001742987,XR_ | **LOC107986476** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.980 |
| 107986477 | XR_001742993 | **LOC107986477** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.067 |
| 107986478 | XR_001742995,XR_ | **LOC107986478** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986479 | XR_001742997 | **LOC107986479** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986480 | XR_001743002 | **LINC01863** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986482 | XR_001743004,XR_ | **LOC107986482** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986483 | XR_001743008 | **LOC107986483** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986484 | XR_001743010 | **LOC107986484** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986485 | XR_001743012 | **LOC107986485** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.944 |
| 107986486 | XR_001743013 | **LOC107986486** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 107986487 | XR_001743014,XR_ | **LOC107986487** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986488 | XR_001743015 | **LOC107986488** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.950 |
| 107986489 | XR_001743018,XR_ | **LOC107986489** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986490 | XR_001743031,XR_ | **LOC107986490** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986491 | XR_001743034 | **LOC107986491** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986492 | XR_001743035 | **LOC107986492** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986493 | XR_001743039 | **LOC107986493** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986494 | XR_001743041 | **LOC107986494** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986495 | XR_001743049 | **LOC107986495** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.048 |
| 107986496 | XR_001743050 | **TRIM7-AS1** | TRIM7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 107986512 | XR_001743786 | **LOC107986512** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986513 | XR_001743787 | **LOC107986513** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 107986514 | XR_001743788,XR_ | **LOC107986514** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986515 | XR_001743790 | **LOC107986515** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.039 |
| 107986516 | XR_001743793,XR_ | **LOC107986516** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986517 | XR_001743796 | **LOC107986517** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.835 |
| 107986519 | XR_001743799 | **LOC107986519** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.722 |
| 107986520 | gene-LOC10798652 | **LOC107986520** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986521 | XR_001743806,XR_ | **LOC107986521** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986522 | XR_001743809 | **LOC107986522** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986523 | XR_001743815,XR_ | **LOC107986523** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986524 | XR_001743819,XR_ | **LOC107986524** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.009 |
| 107986525 | XR_001743825 | **LOC107986525** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986526 | XR_001743827 | **LOC107986526** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986528 | XR_001743865 | **LOC107986528** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986529 | XR_001743866 | **LOC107986529** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986530 | gene-LOC10798653 | **LOC107986530** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986531 | XM_024446613 | **LOC107986531** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 0.805 |
| 107986532 | XM_017011596 | **LOC107986532** | FAM10 family protein At4 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986533 | XR_002956401 | **LINC02531** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986534 | gene-LOC10798653 | **LOC107986534** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986535 | gene-LOC10798653 | **LOC107986535** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986537 | XR_001743876 | **LOC107986537** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986538 | XR_001743878 | **LOC107986538** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986539 | XR_001743880 | **LOC107986539** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986540 | XR_001743881 | **LOC107986540** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986541 | XR_001743884 | **LOC107986541** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986543 | XR_001743886 | **LOC107986543** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986544 | XR_001743892,XR_ | **LOC107986544** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986545 | XR_001743894 | **LOC107986545** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.248 |
| 107986546 | XR_001743898 | **LOC107986546** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986547 | XR_001743900 | **LOC107986547** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986548 | XR_001743902,XR_ | **LOC107986548** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986549 | XR_001743904 | **LOC107986549** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986550 | XR_001743905 | **LOC107986550** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986551 | XR_001743906 | **LOC107986551** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986552 | XR_001743907 | **LOC107986552** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986553 | XR_001743913 | **LOC107986553** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.838 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107986554 | XM_017011607,XM_ | **LOC107986554** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986555 | XR_001743924 | **LOC107986555** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 107986556 | XR_001743927,XR_ | **LOC107986556** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.158 |
| 107986557 | XR_001743931 | **LOC107986557** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986558 | XR_001743932 | **LOC107986558** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986559 | XR_001743933 | **LOC107986559** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986560 | XR_001743934 | **LOC107986560** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986561 | XR_001743938,XR_ | **LOC107986561** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986562 | XR_001743957 | **LOC107986562** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986564 | XR_001743960 | **LOC107986564** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986566 | XR_001743969 | **LOC107986566** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986567 | XR_001743970 | **LOC107986567** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986569 | XR_001743972 | **LOC107986569** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986570 | XR_001743975,XR_ | **LOC107986570** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986571 | XR_001743986 | **LOC107986571** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986572 | XR_001744003 | **LOC107986572** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986573 | XR_001744006 | **LOC107986573** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986574 | XR_001744011 | **LOC107986574** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986575 | XR_001744014 | **LOC107986575** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986576 | XR_001744018 | **LOC107986576** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986577 | XR_001744020 | **LOC107986577** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986578 | XR_001744021 | **LOC107986578** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986579 | XR_001744022 | **LOC107986579** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986582 | XR_001744056 | **LOC107986582** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986583 | XR_001744057 | **LOC107986583** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986584 | XR_001744071 | **LOC107986584** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.020 |
| 107986586 | XR_001744073 | **LOC107986586** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986587 | XR_001744078 | **ABCF1-DT** | ABCF1 divergent transcr | lncRNA | 1 | 1 | 2 | 2 | 1.136 |
| 107986588 | XR_001744084 | **LOC107986588** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986589 | XR_001744085 | **LOC107986589** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.007 |
| 107986590 | XR_001744097 | **LOC107986590** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.839 |
| 107986592 | gene-LOC10798659 | **LOC107986592** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986593 | XR_001744107 | **LOC107986593** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.988 |
| 107986594 | XR_001744111 | **LOC107986594** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986595 | XR_001744118 | **LOC107986595** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986596 | XM_017011613 | **LOC107986596** | arf-GAP with GTPase, AI | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 107986597 | XR_001744125 | **LOC107986597** | uncharacterized LOC107 | lncRNA | 3 | 4 | 4 | 5 | 1.203 |
| 107986598 | XR_001744131,XR_ | **LOC107986598** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986599 | XR_001744133,XR_ | **LOC107986599** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986600 | XR_001744142 | **LOC107986600** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986601 | XR_001744150 | **LOC107986601** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986602 | XR_001744151,XR_ | **LOC107986602** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986603 | XR_001744158 | **LOC107986603** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986604 | XR_001744167 | **LOC107986604** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986605 | XR_001744173,XR_ | **TINAG-AS1** | TINAG antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986606 | XR_001744176 | **LOC107986606** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986607 | XR_001744187 | **LOC107986607** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986608 | XR_001744188,XR_ | **LOC107986608** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986610 | XR_001744194 | **LOC107986610** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986611 | XR_001744197 | **LOC107986611** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986613 | XR_001744210 | **LOC107986613** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.956 |
| 107986614 | XR_001744216 | **LOC107986614** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986617 | XR_001744231 | **LOC107986617** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986618 | XR_001744233 | **LINC02857** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986619 | XR_001744234 | **LOC107986619** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986620 | XR_001744235,XR_ | **LOC107986620** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986621 | XR_001744237 | **LOC107986621** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986622 | XR_001744238 | **LOC107986622** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.648 |
| 107986623 | XR_001744259 | **LOC107986623** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 107986624 | XR_001744260 | **LOC107986624** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986625 | XR_001744261 | **LOC107986625** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986626 | XR_001744263,XR_ | **LOC107986626** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986627 | XR_001744269 | **LOC107986627** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986629 | XR_001744280 | **LOC107986629** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986630 | XR_001744287 | **LOC107986630** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.215 |
| 107986631 | XR_001744288,XR_ | **LOC107986631** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986632 | XR_001744298 | **LOC107986632** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986633 | XR_001744299 | **LOC107986633** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986634 | XR_001744300,XR_ | **LOC107986634** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986635 | XR_001744307 | **LOC107986635** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986636 | XR_001744308 | **LOC107986636** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986637 | XR_001744312 | **LOC107986637** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986638 | XR_001744315,XR_ | **LOC107986638** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986639 | XR_001744317,XR_ | **LOC107986639** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986640 | XR_001744327,XR_ | **LOC107986640** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986641 | XR_001744335,XR_ | **LOC107986641** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.258 |
| 107986642 | XR_001744337 | **LOC107986642** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986643 | XR_001744342 | **LOC107986643** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986644 | XR_001744345 | **LOC107986644** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986646 | XR_001744360 | **LOC107986646** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986648 | gene-LOC10798664 | **LOC107986648** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986649 | XR_001744379,XR_ | **LOC107986649** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.018 |
| 107986650 | XR_001744381 | **LOC107986650** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986651 | XR_001744382 | **LOC107986651** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986652 | XR_001744383,XR_ | **LOC107986652** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986653 | XR_001744391 | **LOC107986653** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986654 | XR_001744394 | **LOC107986654** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986655 | XR_001744396,XR_ | **LOC107986655** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 107986656 | XR_001744401 | **LOC107986656** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.049 |
| 107986659 | XR_001744408 | **LOC107986659** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986660 | XR_001744415 | **LOC107986660** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986661 | XR_001744421 | **LOC107986661** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986662 | XR_001744425 | **LOC107986662** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986663 | XR_001744427 | **LOC107986663** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986664 | XR_001744431 | **LOC107986664** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986665 | gene-LOC10798666 | **LOC107986665** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986666 | XR_001744452,XR_ | **LOC107986666** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986667 | XR_001744458,XR_ | **LOC107986667** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986668 | XR_001744462,XR_ | **LOC107986668** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.115 |
| 107986669 | XR_001744464 | **LOC107986669** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986671 | XR_001744466 | **LOC107986671** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986672 | XR_001744470 | **LOC107986672** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986673 | XR_001744471 | **LOC107986673** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986674 | XR_001744482,XR_ | **LOC107986674** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986675 | XR_001744484,XR_ | **LOC107986675** | uncharacterized LOC107 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986676 | XR_001744494 | **LOC107986676** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986677 | XM_024446610 | **LOC107986677** | putative hydro-lyase KR | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986678 | XR_001744497 | **LOC107986678** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986679 | rna-TRNAI-AAU | **TRNAI-AAU** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986680 | rna-TRM-CAT5-2 | **TRM-CAT5-2** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986682 | rna-TRM-CAT4-3 | **TRM-CAT4-3** | tRNA-Met | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986683 | rna-TRI-AAT7-2 | **TRI-AAT7-2** | tRNA-Ile | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986694 | XR_001744899 | **LOC107986694** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986696 | XR_001744901 | **LOC107986696** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986697 | XR_001744906 | **LOC107986697** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986698 | XR_001744907 | **LOC107986698** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.084 |
| 107986699 | XR_001744911 | **LOC107986699** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986700 | XR_001744912,XR_ | **LOC107986700** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986703 | XR_001744918 | **CPVL-AS1** | CPVL antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986704 | gene-LOC1079867( | **LOC107986704** | . | pseudogene | 0 | 0 | 1 | 1 | 0.921 |
| 107986707 | XR_001744945 | **LOC107986707** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986708 | XR_001744946 | **LOC107986708** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986709 | XR_001744947 | **LOC107986709** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986710 | XR_001744948,XR_ | **LOC107986710** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986712 | XR_001744954 | **LOC107986712** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986713 | XR_001744955 | **LOC107986713** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107986714 | XR_001744956 | **LOC107986714** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.078 |
| 107986715 | XR_001744961 | **LOC107986715** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986716 | XR_001744967 | **LOC107986716** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986717 | XR_001744968,XR_ | **LOC107986717** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986718 | XR_001744988 | **LOC107986718** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986719 | XR_001744993 | **LOC107986719** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986720 | XR_001744994 | **LOC107986720** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986721 | XR_001744999 | **LOC107986721** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986722 | XR_001745002 | **LOC107986722** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986723 | gene-LOC10798672 | **LOC107986723** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986727 | gene-LOC10798672 | **LOC107986727** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986730 | XR_002956501 | **CICP24** | capicua transcriptional re | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107986731 | gene-LOC10798673 | **LOC107986731** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986733 | XR_001745009 | **LOC107986733** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986734 | XR_001745010 | **LOC107986734** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986735 | XR_001745013 | **LOC107986735** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986736 | XR_001745014 | **LOC107986736** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.004 |
| 107986737 | XR_001745015 | **LOC107986737** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986738 | XR_001745018 | **LOC107986738** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986739 | XR_001745019 | **LINC02854** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986740 | gene-LOC10798674 | **LOC107986740** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986741 | XR_001745022 | **LOC107986741** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986742 | XR_001745024 | **LOC107986742** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986743 | XR_001745025 | **LOC107986743** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986744 | XR_001745026 | **LOC107986744** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986745 | XR_001745027 | **LOC107986745** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986746 | XR_001745028 | **LOC107986746** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986747 | XR_001745029 | **LOC107986747** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986749 | XR_001745033 | **LOC107986749** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986750 | XR_001745034 | **LOC107986750** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986751 | XR_001745037 | **LOC107986751** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986755 | XM_017012906,XM_ | **LOC107986755** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986756 | XR_001745046 | **LOC107986756** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986757 | XR_001745050 | **LOC107986757** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986758 | XR_001745065 | **LOC107986758** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986759 | XR_001745066,XR_ | **LOC107986759** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986760 | XR_001745068,XR_ | **LOC107986760** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986761 | XR_001745071 | **LOC107986761** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986762 | XM_017012908,XM_ | **LOC107986762** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.056 |
| 107986763 | XR_001745073,XR_ | **LOC107986763** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986764 | XR_002956539 | **LOC107986764** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986766 | XR_001745090 | **LOC107986766** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986767 | XR_001745091 | **LOC107986767** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.867 |
| 107986768 | XR_001745094 | **LOC107986768** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986769 | XR_001745095,XR_ | **LOC107986769** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986770 | XR_001745097 | **LOC107986770** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986772 | XR_001745107 | **LOC107986772** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986773 | XR_001745109 | **LOC107986773** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986774 | XR_001745112 | **LOC107986774** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986775 | XR_001745115 | **LOC107986775** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986776 | XR_001745117,XR_ | **LOC107986776** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.079 |
| 107986777 | XR_001745121,XR_ | **LOC107986777** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986778 | XR_001745135 | **LOC107986778** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986779 | XR_001745136 | **LOC107986779** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.142 |
| 107986780 | XR_002956556 | **LOC107986780** | small integral membrane | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107986781 | XR_001745158,XR_ | **LOC107986781** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986782 | XR_001745161 | **LOC107986782** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.953 |
| 107986783 | gene-LOC10798678 | **LOC107986783** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986784 | XR_001745171 | **LOC107986784** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.913 |
| 107986785 | XR_001745175 | **LOC107986785** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 107986786 | XR_001745182 | **LOC107986786** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986787 | XR_001745183 | **LOC107986787** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986788 | XR_001745185,XR_ | **LOC107986788** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986789 | XR_001745187 | **LOC107986789** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986790 | XR_001745189 | **LOC107986790** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986794 | NR_157843 | **LOC107986794** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986795 | gene-LOC10798679 | **LOC107986795** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986796 | XR_001745210 | **LOC107986796** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986798 | XR_001745214 | **LOC107986798** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986799 | gene-LOC10798679 | **LOC107986799** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986800 | XM_017012928,XM_ | **LOC107986800** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 0.955 |
| 107986806 | XR_001745227,XR_ | **LINC02848** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986809 | XR_001745243 | **ELN-AS1** | ELN antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 107986811 | XR_001745245 | **LOC107986811** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986812 | XR_001745252,XR_ | **LOC107986812** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986813 | XR_001745254 | **LOC107986813** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986814 | XR_001745257 | **LOC107986814** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986815 | XR_001745260 | **LOC107986815** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986816 | XR_001745261 | **LOC107986816** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986817 | XR_001745266 | **LOC107986817** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986818 | XR_001745267,XR_ | **FAM237B** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986819 | XR_001745269 | **LOC107986819** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.921 |
| 107986820 | XR_001745270,XR_ | **LOC107986820** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 107986821 | XR_001745275,XR_ | **LOC107986821** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986822 | XR_001745283 | **LOC107986822** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986823 | XR_001745284,XR_ | **LOC107986823** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986824 | XR_001745287 | **LOC107986824** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986825 | XR_001745289 | **LOC107986825** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986826 | XR_001745292 | **LOC107986826** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986827 | NR_147989 | **CZ1P-ASNS** | CZ1P-ASNS readthrough | lncRNA | 0 | 2 | 1 | 3 | 1.982 |
| 107986828 | XR_001745299,XR_ | **LOC107986828** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.865 |
| 107986829 | XR_001745301 | **LOC107986829** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986830 | XR_001745302 | **LOC107986830** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986832 | XR_001745314 | **LOC107986832** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986833 | XR_001745316 | **LOC107986833** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986834 | XR_001745319 | **LOC107986834** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986835 | XR_001745320 | **LOC107986835** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986836 | XR_001745322 | **LOC107986836** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986837 | XR_001745328,XR_ | **LOC107986837** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986838 | XR_001745339,XR_ | **LOC107986838** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986839 | XR_001745343 | **LOC107986839** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986840 | XR_001745345 | **LOC107986840** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986841 | XR_002956584 | **LOC107986841** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986842 | XR_001745349 | **LOC107986842** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986843 | XR_001745350 | **LOC107986843** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986845 | NR_148338,NR_148 | **LOC107986845** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986846 | XR_001745358 | **LOC107986846** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986847 | XR_001745359 | **LOC107986847** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986848 | XR_001745360 | **LOC107986848** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986849 | XR_001745363 | **LOC107986849** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986850 | XR_001745375 | **LOC107986850** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986852 | XR_001745381,XR_ | **LOC107986852** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986853 | XR_001745384 | **LOC107986853** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986854 | XR_001745386 | **LOC107986854** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986855 | XR_001745394 | **LOC107986855** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986856 | XR_001745398 | **LOC107986856** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.848 |
| 107986858 | XR_001745420 | **LOC107986858** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986859 | XR_001745421 | **LOC107986859** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986860 | XM_017012936 | **LOC107986860** | endogenous retrovirus gr | protein_coding | 13 | 13 | 14 | 14 | 1.018 |
| 107986862 | XR_001745427 | **LOC107986862** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.842 |
| 107986863 | XR_001745443 | **LOC107986863** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986865 | XR_001745633 | **LOC107986865** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986868 | XR_001745649 | **LOC107986868** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986870 | XR_001745656 | **LOC107986870** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986871 | XR_002956669 | **LOC107986871** | ubiquitin-conjugating en: | transcribed_pseu | 0 | 1 | 1 | 2 | 1.163 |
| 107986872 | XR_001745657,XR_ | **LOC107986872** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107986874 | XR_001745685 | **LOC107986874** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.991 |
| 107986875 | gene-LOC10798687 | **LOC107986875** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986876 | NR_160769 | **LOC107986876** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.214 |
| 107986878 | gene-LOC10798687 | **LOC107986878** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986879 | gene-REXO1L5P | **REXO1L5P** | REXO1 like 5, pseudoge | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986880 | XR_001745697 | **LOC107986880** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986881 | XR_001745700 | **LOC107986881** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986882 | XR_001745701 | **LOC107986882** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986883 | XR_001745702 | **LOC107986883** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986884 | XR_001745703 | **LOC107986884** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986885 | XR_001745707,XR_ | **LOC107986885** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986886 | XR_001745709,XR_ | **LOC107986886** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986887 | XR_001745712 | **LOC107986887** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986888 | XR_001745713 | **LOC107986888** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986889 | gene-LOC10798688 | **LOC107986889** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986890 | XR_001745718 | **LOC107986890** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986891 | XR_001745719 | **LOC107986891** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986892 | XR_001745720 | **LOC107986892** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986893 | XR_001745721,XR_ | **LOC107986893** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986894 | XR_001745723 | **LOC107986894** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986895 | XR_001745726 | **LOC107986895** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986896 | XR_001745728 | **LOC107986896** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 107986897 | XR_001745730 | **LOC107986897** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986898 | XR_001745731 | **LOC107986898** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.341 |
| 107986899 | XR_001745732 | **LOC107986899** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986901 | XR_001745735 | **LOC107986901** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986902 | XR_001745736 | **LOC107986902** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986903 | XR_001745737 | **LOC107986903** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986904 | XR_001745738 | **LOC107986904** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986905 | XR_001745742 | **LOC107986905** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986906 | XR_001745745 | **LOC107986906** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986907 | XR_001745763 | **LOC107986907** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986908 | XM_017014138,XR_ | **LOC107986908** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986909 | XR_001745769 | **LOC107986909** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986910 | XM_017014151,XM_ | **LOC107986910** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107986912 | XR_001745793 | **LOC107986912** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986913 | XR_001745796,XR_ | **LOC107986913** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986914 | gene-LOC10798691 | **LOC107986914** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986915 | XR_001745810 | **LOC107986915** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986916 | XR_001745815 | **LOC107986916** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986918 | XR_001745818 | **LOC107986918** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986919 | XR_001745819 | **LOC107986919** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986920 | XR_001745821 | **LOC107986920** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986921 | XR_001745822 | **LOC107986921** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986922 | XR_001745823 | **LOC107986922** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986923 | XR_001745826 | **LOC107986923** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986924 | XR_001745827 | **LOC107986924** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986925 | XR_001745828,XR_ | **LOC107986925** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986926 | XR_001745831 | **LOC107986926** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986929 | XR_001745835 | **LOC107986929** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986930 | XR_001745840,XR_ | **LOC107986930** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986931 | XR_001745844 | **LOC107986931** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986932 | XR_001745845 | **LOC107986932** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986933 | XR_001745849 | **LOC107986933** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986934 | XR_001745854 | **LOC107986934** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986935 | XR_001745860 | **LOC107986935** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986936 | XR_001745866 | **LOC107986936** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986938 | XR_001745882 | **LOC107986938** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986939 | XR_001745885 | **LOC107986939** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986940 | XR_001745888 | **LOC107986940** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986941 | XR_001745890 | **LOC107986941** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986942 | XR_001745895 | **LOC107986942** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986943 | XR_001745899 | **LOC107986943** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986944 | XR_001745914,XR_ | **LOC107986944** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986945 | XR_001745920 | **LOC107986945** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986946 | XR_001745928,XR_ | **LOC107986946** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986948 | XR_001745945 | **LOC107986948** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.121 |
| 107986949 | XR_001745946 | **LOC107986949** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.352 |
| 107986950 | XR_001745947 | **LOC107986950** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.926 |
| 107986951 | XR_001745953 | **LOC107986951** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986952 | XR_001745962 | **LOC107986952** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986953 | XR_001745983 | **LOC107986953** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986954 | XR_001745984 | **LOC107986954** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986955 | XR_001745994 | **LOC107986955** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986956 | XR_001745995,XR_ | **LOC107986956** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986957 | XR_001746008 | **LOC107986957** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986959 | XR_001746017 | **LOC107986959** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986960 | gene-LOC10798696 | **LOC107986960** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107986961 | XR_001746020 | **LOC107986961** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986962 | XR_001746021 | **LOC107986962** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986963 | XR_001746022 | **LOC107986963** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 107986964 | XR_001746030 | **LOC107986964** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986965 | XR_001746031 | **LOC107986965** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986966 | XR_001746034 | **LOC107986966** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986968 | XR_001746036,XR_ | **LOC107986968** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986969 | XR_001746040 | **LOC107986969** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986970 | XR_001746051 | **LOC107986970** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986971 | XR_001746067 | **LOC107986971** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986972 | XR_001746068,XR_ | **LOC107986972** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986973 | XR_001746071 | **LOC107986973** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986974 | XR_001746074,XR_ | **LOC107986974** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986976 | XR_001746093 | **LOC107986976** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986977 | XR_001746094 | **LOC107986977** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986978 | XR_001746100 | **LOC107986978** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986979 | XR_001746101 | **LOC107986979** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986980 | NR_147196 | **LINC02055** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986981 | XR_001746115 | **LOC107986981** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986982 | XM_017014159 | **LOC107986982** | MAGE-like protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.044 |
| 107986983 | XR_001746132 | **LOC107986983** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986984 | XR_001746135 | **LOC107986984** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986985 | XR_001746138 | **LOC107986985** | uncharacterized LOC107 | lncRNA | 3 | 2 | 4 | 3 | 0.770 |
| 107986986 | XR_001746149,XR_ | **LOC107986986** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986989 | XR_001746427 | **LOC107986989** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986990 | XR_001746428 | **LOC107986990** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986991 | XR_001746442 | **LOC107986991** | uncharacterized LOC107 | lncRNA | 16 | 13 | 17 | 14 | 0.849 |
| 107986992 | XR_001746443 | **LOC107986992** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986993 | XR_001746459 | **LOC107986993** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986995 | XR_001746461 | **LOC107986995** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107986997 | XR_001746463 | **LOC107986997** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 0.870 |
| 107986998 | XR_001746464 | **LOC107986998** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.126 |
| 107986999 | gene-LOC10798699 | **LOC107986999** | . | pseudogene | 0 | 0 | 1 | 1 | 0.786 |
| 107987000 | XR_001746475,XR_ | **LOC107987000** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 107987001 | XR_001746484,XR_ | **FAM27E4** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 107987003 | XR_001746486 | **LOC107987003** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.949 |
| 107987004 | XM_024447725 | **LOC107987004** | coiled-coil domain-contai | protein_coding | 0 | 0 | 1 | 1 | 0.993 |
| 107987006 | XR_001746505,XR_ | **LOC107987006** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987007 | XR_001746507,XR_ | **LOC107987007** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.964 |
| 107987008 | XR_001746516 | **LOC107987008** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987009 | XR_001746518 | **LOC107987009** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987010 | XR_001746519 | **LOC107987010** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987011 | XR_001746548 | **LOC107987011** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987012 | XR_001746549 | **LOC107987012** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987013 | XM_017015385 | **LOC107987013** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987014 | XR_001746550,XR_ | **LOC107987014** | uncharacterized LOC107 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987015 | XR_001746554 | **LOC107987015** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987016 | XR_001746560 | **LOC107987016** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 107987021 | gene-LOC10798702 | **LOC107987021** | . | pseudogene | 0 | 0 | 1 | 1 | 1.166 |
| 107987022 | gene-LOC10798702 | **LOC107987022** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987023 | gene-LOC10798702 | **LOC107987023** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987024 | gene-LOC10798702 | **LOC107987024** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987025 | gene-LOC10798702 | **LOC107987025** | . | pseudogene | 0 | 0 | 1 | 1 | 1.002 |
| 107987026 | XR_001746563 | **LOC107987026** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987027 | XR_001746564 | **LOC107987027** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987028 | XR_001746568 | **LOC107987028** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987029 | XR_001746569 | **LOC107987029** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987031 | XR_001746571 | **LOC107987031** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987032 | XR_001746572 | **LOC107987032** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987033 | XR_001746574 | **LOC107987033** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987035 | XM_017015392 | **LOC107987035** | tubulin beta chain-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987037 | XR_001746580 | **LOC107987037** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987038 | XR_001746582 | **LOC107987038** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987039 | XR_001746583 | **LOC107987039** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987040 | XR_001746586 | **LOC107987040** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987041 | XR_001746588 | **LOC107987041** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987042 | XM_017015393 | **LOC107987042** | phosphatidylinositol 4,5-l | protein_coding | 0 | 0 | 1 | 1 | 1.068 |
| 107987043 | XR_001746600,XR_ | **LOC107987043** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987044 | XM_017015394 | **LOC107987044** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987046 | XR_001746613,XR_ | **LOC107987046** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987047 | XR_001746619 | **LOC107987047** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987048 | XM_017015395 | **LOC107987048** | thymosin beta-11-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987049 | XR_001746625 | **LOC107987049** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 107987051 | XR_001746631 | **LOC107987051** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987052 | XR_001746632 | **LOC107987052** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.005 |
| 107987053 | XR_001746634 | **LOC107987053** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.014 |
| 107987054 | XR_001746635 | **LOC107987054** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987055 | XR_001746636 | **LOC107987055** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987056 | XR_001746637 | **LOC107987056** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987057 | XR_001746639 | **LOC107987057** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 107987058 | gene-LOC1079870 | **LOC107987058** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987059 | XR_001746645 | **LOC107987059** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.242 |
| 107987060 | XR_001746647 | **LOC107987060** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987061 | XR_001746648 | **LOC107987061** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987063 | XR_001746653 | **LOC107987063** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987064 | XR_001746667 | **LOC107987064** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987065 | XR_001746668,XR_ | **LOC107987065** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987066 | XR_001746676 | **LOC107987066** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987067 | XM_024447728 | **LOC107987067** | formin-2-like | protein_coding | 0 | 0 | 1 | 1 | 1.011 |
| 107987068 | XR_001746682,XR_ | **LOC107987068** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987069 | XR_001746683 | **LOC107987069** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987071 | XR_001746686,XR_ | **LOC107987071** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.977 |
| 107987072 | XR_001746688 | **LOC107987072** | uncharacterized LOC107 | lncRNA | 9 | 9 | 10 | 10 | 1.001 |
| 107987073 | XR_001746689 | **LOC107987073** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987074 | XR_001746691 | **LOC107987074** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987075 | XR_001746692,XR_ | **LOC107987075** | uncharacterized LOC107 | misc_RNA | 0 | 0 | 1 | 1 | 1.110 |
| 107987076 | XR_001746694 | **LOC107987076** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.021 |
| 107987077 | XR_001746700 | **LOC107987077** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987078 | XR_001746716 | **LOC107987078** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987079 | XR_001746718 | **LOC107987079** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987080 | XR_001746733 | **LOC107987080** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987081 | XR_001746758 | **LOC107987081** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987082 | gene-LOC1079870 | **LOC107987082** | . | pseudogene | 0 | 0 | 1 | 1 | 1.087 |
| 107987083 | XR_001746759,XR_ | **LOC107987083** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.041 |
| 107987084 | XR_001746764,XR_ | **LOC107987084** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987085 | XR_001746766 | **LOC107987085** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987086 | XR_001746781 | **LOC107987086** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987087 | XR_001746782 | **LOC107987087** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987088 | XR_001746807,XR_ | **LOC107987088** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987089 | gene-LOC1079870 | **LOC107987089** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987090 | XR_001746817 | **LOC107987090** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987091 | XR_001746819 | **LOC107987091** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987094 | XR_001746834,XR_ | **LOC107987094** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987095 | XR_001746837 | **LOC107987095** | uncharacterized LOC107 | lncRNA | 4 | 4 | 5 | 5 | 0.926 |
| 107987097 | XR_001746839,XR_ | **LOC107987097** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.111 |
| 107987099 | XM_017015402,XM_ | **LOC107987099** | tripartite motif-containing | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987100 | XR_001746843,XR_ | **LOC107987100** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987101 | XR_001746845,XR_ | **LOC107987101** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987102 | XR_001746847 | **LOC107987102** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.043 |
| 107987103 | XR_001746851 | **LOC107987103** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987104 | XR_001746855 | **LOC107987104** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987105 | XR_001746865 | **LOC107987105** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.078 |
| 107987106 | XR_001746866,XR_ | **CT70** | cancer/testis associated | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987107 | XR_001746868,XR_ | **LOC107987107** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987108 | XR_001746870,XR_ | **LOC107987108** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987109 | XR_001746872 | **LOC107987109** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987110 | XR_001746873 | **LOC107987110** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987111 | XR_001746874,XR_ | **LOC107987111** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987112 | XR_001746879 | **LOC107987112** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987113 | XR_001746888 | **LOC107987113** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987114 | XR_001746890 | **LOC107987114** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987115 | XR_001746892 | **LOC107987115** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987116 | XR_001746897,XR_ | **LOC107987116** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.136 |
| 107987117 | XR_001746899 | **LOC107987117** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987118 | XR_001746900 | **LOC107987118** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.988 |
| 107987119 | XR_002956933 | **LOC107987119** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987120 | XR_001746905 | **LOC107987120** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987121 | XR_001746908 | **LOC107987121** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987122 | XR_001746919 | **LOC107987122** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987123 | XR_001746920 | **LOC107987123** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987124 | XR_001746921,XR_ | **LOC107987124** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987125 | XM_017015410 | **LOC107987125** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987126 | XR_001746926 | **LOC107987126** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.930 |
| 107987127 | XR_001746927 | **LOC107987127** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987128 | XR_001746931 | **LOC107987128** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.961 |
| 107987129 | XR_001746935,XR_ | **LOC107987129** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987132 | XR_001746946,XR_ | **LOC107987132** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.708 |
| 107987133 | XR_001746956 | **LOC107987133** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987134 | XR_001746957,XR_ | **LOC107987134** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987135 | XR_001746960 | **LOC107987135** | uncharacterized LOC107 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.009 |
| 107987137 | XR_001746962,XR_ | **LOC107987137** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987138 | XR_001746966,XR_ | **LOC107987138** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987139 | XR_001746976,XR_ | **LOC107987139** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987140 | XR_001746978 | **LOC107987140** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.929 |
| 107987141 | XR_001746979 | **LOC107987141** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 1.064 |
| 107987142 | NR_165240,NR_165 | **LOC107987142** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.167 |
| 107987143 | XR_001746981 | **LOC107987143** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987145 | XR_001746987 | **LOC107987145** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987146 | XR_001747320 | **LOC107987146** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987147 | XR_001747447 | **LOC107987147** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.972 |
| 107987148 | XR_001747495 | **LOC107987148** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987150 | XR_001747529 | **LOC107987150** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.920 |
| 107987151 | XR_001747604 | **LOC107987151** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987152 | XR_001747684 | **LOC107987152** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987153 | XR_001747688 | **LOC107987153** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987155 | NM_001368161 | **OOSP4B** | oocyte secreted protein f | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987157 | XR_001748091 | **LOC107987157** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987158 | XM_017018635,XM_ | **LOC107987158** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.936 |
| 107987159 | gene-LOC1079871 | **LOC107987159** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987160 | XR_001748157 | **LOC107987160** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987164 | XR_001748384 | **LOC107987164** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987165 | XR_001748395 | **LOC107987165** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987166 | XR_001748403 | **LOC107987166** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987168 | gene-LOC1079871 | **LOC107987168** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107987169 | gene-LOC10798716 | **LOC107987169** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987170 | XR_001748946,XR_ | **LOC107987170** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.979 |
| 107987171 | XR_001748988 | **LOC107987171** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987172 | XR_001748990,XR_ | **LOC107987172** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.053 |
| 107987174 | XR_001748997 | **LOC107987174** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987175 | XM_017020294 | **LOC107987175** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.067 |
| 107987176 | XR_001749176 | **LOC107987176** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987177 | XR_001749181 | **LOC107987177** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987178 | XR_001749203 | **LOC107987178** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987180 | XR_001749233 | **LOC107987180** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987181 | XR_001749348 | **LOC107987181** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987182 | XR_001749430 | **LOC107987182** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987183 | XR_001749444 | **LOC107987183** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.958 |
| 107987186 | gene-LOC10798718 | **LOC107987186** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987187 | XR_001749795 | **LOC107987187** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987189 | XR_001749965 | **LOC107987189** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987190 | XR_001750010 | **LOC107987190** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987191 | XR_001750033 | **LOC107987191** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987192 | XR_001750050 | **LOC107987192** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987204 | gene-LOC10798720 | **LOC107987204** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987206 | XR_001750762 | **LOC107987206** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.884 |
| 107987207 | XR_001750875 | **LOC107987207** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987209 | XR_001750914,XR_ | **LOC107987209** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987210 | XR_001750944 | **LOC107987210** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987211 | XM_017021851 | **LOC107987211** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987215 | gene-LOC10798721 | **LOC107987215** | . | pseudogene | 2 | 1 | 3 | 2 | 0.717 |
| 107987217 | gene-LOC10798721 | **LOC107987217** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987218 | XR_001751428 | **LOC107987218** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987219 | XR_001751430 | **LOC107987219** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987220 | XR_001751467 | **LOC107987220** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987221 | XR_001751470,XR_ | **LOC107987221** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 107987222 | XR_001751474 | **LOC107987222** | uncharacterized LOC107 | lncRNA | 15 | 14 | 16 | 15 | 0.912 |
| 107987223 | XR_001751510 | **LOC107987223** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987224 | XR_001751605 | **LOC107987224** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987225 | XR_001751616 | **LOC107987225** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987227 | XR_001751663 | **LOC107987227** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987228 | XR_001751729,XR_ | **LOC107987228** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987232 | gene-LOC10798723 | **LOC107987232** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987233 | XM_017023921 | **LOC107987233** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987234 | XR_001752091 | **LOC107987234** | uncharacterized LOC107 | lncRNA | 1 | 0 | 2 | 1 | 0.704 |
| 107987235 | XM_017023960 | **LOC107987235** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987236 | XM_017023961 | **LOC107987236** | sal-like protein 3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987237 | XM_017023968 | **LOC107987237** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987238 | XM_017023970 | **LOC107987238** | proline-rich proteoglycan | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987240 | XR_001752321 | **LOC107987240** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987241 | XR_001752338 | **LOC107987241** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987243 | XM_024451053 | **LOC107987243** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987244 | XR_001752777 | **LOC107987244** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987245 | XR_001752780 | **LOC107987245** | uncharacterized LOC107 | lncRNA | 2 | 1 | 3 | 2 | 0.818 |
| 107987246 | XR_001752818,XR_ | **LOC107987246** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987247 | XR_002958158,XR_ | **LOC107987247** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987248 | XM_017025501 | **LOC107987248** | intercellular adhesion mo | protein_coding | 0 | 0 | 1 | 1 | 0.967 |
| 107987249 | XR_001752990 | **LOC107987249** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987250 | XR_001753042 | **LOC107987250** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987251 | XR_001753050 | **LOC107987251** | uncharacterized LOC107 | lncRNA | 4 | 6 | 5 | 7 | 1.330 |
| 107987254 | XM_017025513 | **LOC107987254** | uncharacterized protein I | protein_coding | 0 | 0 | 1 | 1 | 0.938 |
| 107987256 | XR_001753380 | **LOC107987256** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987258 | XR_001753445 | **LOC107987258** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.047 |
| 107987259 | XR_001753467,XR_ | **LOC107987259** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987261 | XR_001753508 | **LOC107987261** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987262 | XR_001753527 | **LOC107987262** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987264 | XR_002958390 | **LOC107987264** | putative zinc finger prote | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 107987266 | XR_001753828 | **LOC107987266** | uncharacterized LOC107 | lncRNA | 0 | 1 | 1 | 2 | 1.212 |
| 107987267 | XR_001753938 | **LOC107987267** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 107987269 | XM_017027568 | **LOC107987269** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.790 |
| 107987270 | XR_001753995 | **LOC107987270** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987272 | XR_001754025 | **LOC107987272** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.009 |
| 107987273 | gene-RPS29P30 | **RPS29P30** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987276 | XM_017028183 | **LOC107987276** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987277 | gene-LOC10798727 | **LOC107987277** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987278 | gene-LOC10798727 | **LOC107987278** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987280 | XR_001754572 | **LOC107987280** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987281 | XR_001754586 | **LOC107987281** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987282 | XR_001754641 | **LOC107987282** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987284 | XR_001754693 | **LOC107987284** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987285 | XM_017028199 | **LOC107987285** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 107987288 | XM_017028510 | **LOC107987288** | uncharacterized LOC107 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987289 | XM_017028511 | **LOC107987289** | helicase SRCAP-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 107987290 | XM_024452144 | **LOC107987290** | uncharacterized LOC107 | protein_coding | 1 | 1 | 2 | 2 | 1.037 |
| 107987292 | XR_001754932 | **LOC107987292** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987293 | XR_001754938 | **LOC107987293** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 107987294 | XR_001754939,XR_ | **LOC107987294** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 107987295 | NR_146322 | **LINC02246** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987296 | XR_001754977 | **LOC107987296** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987299 | XR_001755068,XR_ | **LOC107987299** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987300 | XR_001755073 | **LOC107987300** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987301 | XR_001755077 | **LOC107987301** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987302 | XR_001755078 | **LOC107987302** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987303 | XR_001755083 | **LOC107987303** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.284 |
| 107987304 | XR_001755093 | **LOC107987304** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987305 | gene-CTBP2P10 | **CTBP2P10** | . | pseudogene | 0 | 0 | 1 | 1 | 1.019 |
| 107987306 | gene-CTBP2P9 | **CTBP2P9** | . | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 107987307 | gene-CTBP2P11 | **CTBP2P11** | . | pseudogene | 0 | 0 | 1 | 1 | 1.029 |
| 107987308 | XR_001755123,XR_ | **LOC107987308** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.051 |
| 107987309 | XR_001755125,XR_ | **LOC107987309** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.114 |
| 107987320 | gene-LOC10798732 | **LOC107987320** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987322 | gene-LOC10798732 | **LOC107987322** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987323 | XR_001755413,XR_ | **LOC107987323** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987324 | XR_001755418 | **LOC107987324** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987325 | XR_001755427 | **LOC107987325** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987326 | XR_001755583 | **LOC107987326** | uncharacterized LOC107 | lncRNA | 2 | 2 | 3 | 3 | 0.993 |
| 107987327 | gene-LOC10798732 | **LOC107987327** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987328 | gene-LOC10798732 | **LOC107987328** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987329 | gene-LOC10798732 | **LOC107987329** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987330 | XR_001755780,XR_ | **FAM239C** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.012 |
| 107987331 | XR_001755781 | **LOC107987331** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987333 | gene-S100A11P10 | **S100A11P10** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987334 | XR_001755989,XR_ | **LOC107987334** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987335 | gene-LOC10798733 | **LOC107987335** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 107987337 | NR_144458 | **ZFY-AS1** | ZFY antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.290 |
| 107987338 | XR_001756055 | **LOC107987338** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987339 | XR_001756056 | **LOC107987339** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987340 | XR_001756057 | **LOC107987340** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987341 | NR_145461 | **FAM197Y3** | family with sequence sim | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987342 | XR_001756059 | **LOC107987342** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987343 | XR_001756060 | **LOC107987343** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987344 | XR_001756061 | **LOC107987344** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987346 | XR_001756076,XR_ | **LOC107987346** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987347 | XR_001756079 | **LOC107987347** | uncharacterized LOC107 | lncRNA | 1 | 1 | 2 | 2 | 1.029 |
| 107987348 | XR_001756080,XR_ | **LOC107987348** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 107987349 | XR_001756082 | **LOC107987349** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987350 | XR_001756083,XR_ | **LOC107987350** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.016 |
| 107987352 | XR_001756085 | **LOC107987352** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987353 | XR_001756087 | **LOC107987353** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987354 | XR_001756088 | **LOC107987354** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987355 | XR_001756089 | **LOC107987355** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 107987356 | XR_001756091 | **LOC107987356** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987357 | XR_001756093 | **LOC107987357** | uncharacterized LOC107 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 107987402 | rna-TRL-CAA1-1 | **TRL-CAA1-1** | tRNA-Leu | tRNA | 0 | 0 | 1 | 1 | 1.000 |
| 108254688 | gene-DYNC1LI1P1 | **DYNC1LI1P1** | dynein cytoplasmic 1 ligl | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 108570035 | NR_138480 | **LINP1** | lncRNA in non-homologc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 108783645 | NR_144383 | **LOC108783645** | HFE antisense RNA | antisense_RNA | 0 | 0 | 1 | 1 | 1.069 |
| 108783646 | NR_144384 | **DINOL** | damage induced long nc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 108783654 | NR_144402 | **LOC108783654** | uncharacterized LOC108 | lncRNA | 19 | 14 | 20 | 15 | 0.748 |
| 108868751 | NR_144432 | **GSC-DT** | GSC divergent transcript | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 108903150 | NR_144447 | **ZNF8-ERVK3-1** | ZNF8-ERVK3-1 readthro | lncRNA | 2 | 2 | 3 | 3 | 0.837 |
| 108949267 | NR_144471 | **ACBD7-DCLRE1CP1** | ACBD7-DCLRE1CP1 rea | lncRNA | 0 | 0 | 1 | 1 | 0.966 |
| 109136578 | NR_144569 | **MASCRNA** | MALAT1-associated sma | scRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109136579 | NR_145459 | **TALAM1** | TALAM1 transcript, MAL/ | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 109286551 | gene-BPTFP1 | **BPTFP1** | bromodomain PHD finge | pseudogene | 0 | 0 | 1 | 1 | 1.053 |
| 109286552 | gene-KPNA2P3 | **KPNA2P3** | karyopherin subunit alph | pseudogene | 0 | 0 | 1 | 1 | 0.855 |
| 109286553 | NR_026899 | **ARHGAP27P1-BPTFP:** | ARHGAP27P1-BPTFP1-I | transcribed_pseu | 5 | 4 | 6 | 5 | 0.904 |
| 109504726 | NM_001348050 | **ERV3-1-ZNF117** | ERV3-1-ZNF117 readthr | protein_coding | 3 | 2 | 4 | 3 | 0.793 |
| 109616958 | NR_145732 | **SNORA50D** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616959 | NR_145731 | **SNORA80C** | small nucleolar RNA, H/ | snoRNA | 3 | 3 | 4 | 4 | 1.057 |
| 109616960 | NR_145719 | **SNORA10B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616961 | NR_145717 | **SNORA11G** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616962 | NR_145716 | **SNORA15B-1** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.423 |
| 109616963 | NR_145730 | **SNORA20B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616964 | NR_145724 | **SNORA22B** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.928 |
| 109616965 | NR_145729 | **SNORA22C** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616966 | NR_145985 | **SNORA31B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.999 |
| 109616967 | NR_145723 | **SNORA40B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616968 | NR_145728 | **SNORA40C** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616969 | NR_145722 | **SNORA48B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616970 | NR_145725 | **SNORA63C** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616971 | NR_145727 | **SNORA63D** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616972 | NR_145718 | **SNORA68B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.377 |
| 109616973 | NR_145720 | **SNORA70J** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616974 | NR_145721 | **SNORA74C-1** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.755 |
| 109616975 | NR_145749 | **SNORA74D** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.009 |
| 109616976 | NR_145735 | **SNORA79B** | small nucleolar RNA, H/ | snoRNA | 0 | 2 | 1 | 3 | 2.197 |
| 109616977 | NR_145743 | **SNORA9B** | small nucleolar RNA, H/ | snoRNA | 2 | 2 | 3 | 3 | 1.272 |
| 109616978 | NR_145739 | **SNORD31B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616979 | NR_145988 | **SNORD38D** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616980 | NR_145746 | **SNORD65B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616981 | NR_145734 | **SNORD65C** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616982 | NR_145741 | **SNORD77B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616983 | NR_145737 | **SNORD3F** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616984 | NR_145742 | **SNORD3G** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616985 | NR_145740 | **SNORD3J** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616986 | NR_145738 | **SNORD13F** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616987 | NR_145733 | **SNORD13G** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616988 | NR_145747 | **SNORD13I** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616989 | NR_145745 | **SNORD13C** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616990 | NR_145748 | **SNORD13D** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616991 | NR_145744 | **SNORD19C** | small nucleolar RNA, C/I | snoRNA | 5 | 4 | 6 | 5 | 0.844 |
| 109616992 | NR_145762 | **SNORA30B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616993 | NR_145769 | **SNORA70H** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616994 | NR_145770 | **SNORA75B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616995 | NR_145774 | **SNORD70B** | small nucleolar RNA, C/I | snoRNA | 30 | 20 | 31 | 21 | 0.686 |
| 109616996 | NR_145772 | **SNORD3I** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616997 | NR_145775 | **SNORA3C** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616998 | NR_145833 | **SNORA50B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109616999 | NR_145771 | **SNORA80D** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.994 |
| 109617000 | NR_145776 | **SNORA11F** | small nucleolar RNA, H/ | snoRNA | 13 | 10 | 14 | 11 | 0.785 |
| 109617001 | NR_145767 | **SNORA1B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617002 | NR_145761 | **SNORA21B** | small nucleolar RNA, H/ | snoRNA | 2 | 3 | 3 | 4 | 1.246 |
| 109617003 | NR_145768 | **SNORA24B** | small nucleolar RNA, H/ | snoRNA | 0 | 1 | 1 | 2 | 1.765 |
| 109617004 | NR_145764 | **SNORA35B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617005 | NR_145777 | **SNORA41B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617006 | NR_145766 | **SNORA63B** | small nucleolar RNA, H/ | snoRNA | 7 | 9 | 8 | 10 | 1.175 |
| 109617007 | NR_145763 | **SNORA63E** | small nucleolar RNA, H/ | snoRNA | 4 | 3 | 5 | 4 | 0.663 |
| 109617008 | NR_145773 | **SNORA70I** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.905 |
| 109617009 | NR_145778 | **SNORA74C-2** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617010 | NR_145765 | **SNORA77B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617011 | NR_145751 | **SNORD28B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617012 | NR_145755 | **SNORD53B** | small nucleolar RNA, C/I | snoRNA | 2 | 2 | 3 | 3 | 0.876 |
| 109617013 | NR_145752 | **SNORD63B** | small nucleolar RNA, C/I | snoRNA | 3 | 5 | 4 | 6 | 1.311 |
| 109617014 | NR_145757 | **SNORD74B** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617015 | NR_145758 | **SNORD3E** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617016 | NR_145760 | **SNORD3H** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617017 | NR_145754 | **SNORD3K** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617018 | NR_145753 | **SNORD13H** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617019 | NR_145987 | **SNORD13B-1** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617020 | NR_145750 | **SNORD13E** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 0.740 |
| 109617021 | NR_145756 | **SNORD13B-2** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617022 | NR_145713 | **SNORA15B-2** | small nucleolar RNA, H/ | snoRNA | 1 | 1 | 2 | 2 | 0.961 |
| 109617023 | NR_145714 | **SNORA58B** | small nucleolar RNA, H/ | snoRNA | 10 | 8 | 11 | 9 | 0.853 |
| 109617024 | NR_145715 | **SNORD38C** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109617025 | NR_145712 | **SNORD13J** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623450 | NR_145779 | **SNORD155** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623451 | NR_145781 | **SNORD157** | small nucleolar RNA, C/I | snoRNA | 4 | 3 | 5 | 4 | 0.811 |
| 109623452 | NR_145780 | **SNORD159** | small nucleolar RNA, C/I | snoRNA | 1 | 2 | 2 | 3 | 1.332 |
| 109623453 | NR_145782 | **SNORD161** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623454 | NR_145783 | **SNORD162** | small nucleolar RNA, C/I | snoRNA | 4 | 1 | 5 | 2 | 0.373 |
| 109623455 | NR_145804 | **SNORD165** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623456 | NR_145806 | **SNORD167** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.101 |
| 109623457 | NR_145799 | **SNORD168** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623458 | NR_145815 | **SNORD170** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623459 | NR_145801 | **SNORA25B** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623460 | NR_145802 | **SNORD138** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.476 |
| 109623461 | NR_145803 | **SNORA113** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.325 |
| 109623462 | NR_145798 | **SNORA116** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623463 | NR_145839 | **SNORA117** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 0.747 |
| 109623464 | NR_145807 | **SNORA119** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.634 |
| 109623465 | NR_145810 | **SNORD147** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623466 | NR_145840 | **SNORD148** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623467 | NR_145809 | **SNORD150** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623468 | NR_145813 | **SNORD151** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623469 | NR_145805 | **SNORD175** | small nucleolar RNA, C/I | snoRNA | 0 | 1 | 1 | 2 | 1.827 |
| 109623470 | NR_145811 | **SNORD158** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623471 | NR_145812 | **SNORD172** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623472 | NR_145816 | **SNORD145** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623473 | NR_145800 | **SNORD152** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623474 | NR_145814 | **SNORD154** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623475 | NR_145788 | **SNORD156** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623476 | NR_145793 | **SNORD160** | small nucleolar RNA, C/I | snoRNA | 3 | 2 | 4 | 3 | 0.742 |
| 109623477 | NR_145787 | **SNORD163** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623478 | NR_145796 | **SNORD166** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623479 | NR_145786 | **SNORD169** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623480 | NR_145795 | **SNORD173** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623481 | NR_145789 | **SNORA112** | small nucleolar RNA, H/ | snoRNA | 1 | 0 | 2 | 1 | 0.580 |
| 109623482 | NR_145792 | **SNORA115** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623483 | NR_145784 | **SNORA118** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623484 | NR_145791 | **SNORD146** | small nucleolar RNA, C/I | snoRNA | 1 | 0 | 2 | 1 | 0.475 |
| 109623485 | NR_145785 | **SNORD149** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623486 | NR_145790 | **SNORD153** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623487 | NR_145794 | **SNORD164** | small nucleolar RNA, C/I | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109623488 | NR_145797 | **SNORA114** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109703458 | NM_001348712,NM | **HTD2** | hydroxyacyl-thioester del | protein_coding | 15 | 9 | 16 | 10 | 0.593 |
| 109729112 | NR_145989 | **SNORA120** | small nucleolar RNA, H/ | snoRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 109729122 | gene-TYMSP2 | **TYMSP2** | thymidylate synthetase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 109729123 | gene-DHFRP6 | **DHFRP6** | dihydrofolate reductase p | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 109729126 | NM_001351111,NM | **FAM236C** | family with sequence sim | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 109729127 | NR_146274 | **KRT7-AS** | KRT7 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729128 | NR_146275 | **LINC01930** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729131 | NR_146276 | **LINC02231** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729132 | NR_146278 | **LINC02233** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729133 | NR_146281 | **LINC02236** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 109729135 | NR_146283 | **MIR4422HG** | MIR4422 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729137 | NR_146284 | **MEF2C-AS2** | MEF2C antisense RNA 2 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729141 | NR_146292,NR_14( | **TDRKH-AS1** | TDRKH antisense RNA 1 | lncRNA | 3 | 3 | 4 | 4 | 0.887 |
| 109729145 | gene-RPS29P29 | **RPS29P29** | ribosomal protein S29 ps | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 109729146 | NR_146294 | **POC1B-AS1** | POC1B antisense RNA 1 | lncRNA | 3 | 2 | 4 | 3 | 0.694 |
| 109729159 | gene-HMGB1P51 | **HMGB1P51** | high mobility group box 1 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 109729161 | NR_146297 | **LNCSRLR** | lncRNA sorafenib resista | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729164 | NR_146299 | **LINC02234** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729166 | NR_146300 | **LINC02238** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729169 | NR_146309 | **LINC02154** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729173 | NR_145448 | **TFAP2A-AS2** | TFAP2A antisense RNA 2 | lncRNA | 1 | 1 | 2 | 2 | 1.141 |
| 109729174 | NR_146310 | **MIR4713HG** | MIR4713 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729180 | NR_146320 | **SNHG26** | small nucleolar RNA hos | lncRNA | 7 | 5 | 8 | 6 | 0.747 |
| 109729181 | NR_146321 | **ZNF710-AS1** | ZNF710 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.209 |
| 109729182 | NR_147193 | **DM1-AS** | DM1 locus antisense RN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109729184 | NR_147699 | **SLC12A5-AS1** | SLC12A5 and MMP9 ant | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 109731405 | gene-PDXDC2P | **PDXDC2P** | pyridoxal dependent dec | pseudogene | 0 | 0 | 1 | 1 | 0.924 |
| 109864269 | NR_146092,NR_14( | **MIR302CHG** | miR-302/367 cluster host | lncRNA | 0 | 0 | 1 | 1 | 1.075 |
| 109864279 | NR_146144 | **RNA45SN2** | RNA, 45S pre-ribosomal | rRNA | 9 | 19 | 10 | 20 | 2.110 |
| 109864280 | NR_146146 | **RNA18SN2** | RNA, 18S ribosomal N2 | rRNA | 333 | 293 | 334 | 294 | 0.879 |
| 109864281 | NR_146147 | **RNA5-8SN2** | RNA, 5.8S ribosomal N2 | rRNA | 4 | 2 | 5 | 3 | 0.571 |
| 109864282 | NR_146148 | **RNA28SN2** | RNA, 28S ribosomal N2 | rRNA | 178 | 124 | 179 | 125 | 0.700 |
| 109910379 | NR_146151 | **RNA45SN3** | RNA, 45S pre-ribosomal | rRNA | 8 | 29 | 9 | 30 | 3.268 |
| 109910380 | NR_146152 | **RNA18SN3** | RNA, 18S ribosomal N3 | rRNA | 339 | 270 | 340 | 271 | 0.795 |
| 109910381 | NR_146153 | **RNA5-8SN3** | RNA, 5.8S ribosomal N3 | rRNA | 1 | 0 | 2 | 1 | 0.619 |
| 109910382 | NR_146154 | **RNA28SN3** | RNA, 28S ribosomal N3 | rRNA | 193 | 120 | 194 | 121 | 0.625 |
| 109951030 | NR_146231 | **PKD1P3-NPIPA1** | PKD1P3-NPIPA1 readthr | transcribed_pseu | 17 | 16 | 18 | 17 | 0.957 |
| 110006322 | NR_146331 | **PKD1P5-LOC1053767!** | PKD1P5-LOC105376752 | transcribed_pseu | 6 | 7 | 7 | 8 | 1.027 |
| 110006323 | NR_146336 | **PKD1P4-NPIPA8** | PKD1P4-NPIPA8 readthr | transcribed_pseu | 7 | 8 | 8 | 9 | 1.034 |
| 110006325 | NR_146339 | **PPIP5K1P1-CATSPER** | PPIP5K1P1-CATSPER2 | transcribed_pseu | 5 | 6 | 6 | 7 | 1.016 |
| 110006327 | NR_146419 | **ANKRD20A4-ANKRD2** | ANKRD20A4-ANKRD20A | lncRNA | 0 | 0 | 1 | 1 | 0.993 |
| 110091768 | NR_146604 | **LOC110091768** | uncharacterized LOC110 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110091775 | NM_001350338,NR_ | **CFAP298-TCP10L** | CFAP298-TCP10L readth | protein_coding | 0 | 0 | 1 | 1 | 0.973 |
| 110091776 | NR_146644 | **LOC110091776** | ankyrin repeat domain 1 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.831 |
| 110091777 | NR_146655,NR_14( | **LOC110091777** | uncharacterized LOC110 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110116772 | NM_001350496 | **ZNF765-ZNF761** | ZNF765-ZNF761 readthr | protein_coding | 0 | 0 | 1 | 1 | 0.729 |
| 110117498 | NM_001328655 | **P3R3URF** | PIK3R3 upstream readin | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110117499 | NM_001303427 | **P3R3URF-PIK3R3** | P3R3URF-PIK3R3 readth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110175910 | NR_147192 | **MIR4527HG** | MIR4527 host gene | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110231149 | NR_147203,NR_14 | **PANCR** | PITX2 adjacent non-codi | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110354863 | NM_001351732,NM | **ZNF660-ZNF197** | ZNF660-ZNF197 readthr | protein_coding | 0 | 0 | 1 | 1 | 0.977 |
| 110437700 | NR_147988 | **FLICR** | FOXP3 regulating long ir | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110440226 | gene-CCZ1P | **CCZ1P** | CCZ1 homolog, vacuolar | pseudogene | 6 | 5 | 7 | 6 | 0.815 |
| 110596867 | gene-LOC11059688 | **LOC110596867** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 110599563 | NM_001353334 | **LY6G6F-LY6G6D** | LY6G6F-LY6G6D readth | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110599564 | NM_032331 | **EEF1AKMT4** | EEF1A lysine methyltran | protein_coding | 80 | 89 | 81 | 90 | 1.109 |
| 110599565 | NR_148407 | **UC.134** | long non-coding RNA uc | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110599583 | NM_014693 | **EEF1AKMT4-ECE2** | EEF1AKMT4-ECE2 read | protein_coding | 0 | 0 | 1 | 1 | 1.101 |
| 110599588 | NM_001353493,NM | **ASDURF** | ASNSD1 upstream readi | protein_coding | 9 | 12 | 10 | 13 | 1.206 |
| 110599590 | NR_148450 | **C5-OT1** | C5 3' UTR overlapping tr | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806272 | NR_149073 | **BTG3-AS1** | BTG3 antisense RNA 1 | lncRNA | 1 | 1 | 2 | 2 | 1.104 |
| 110806273 | NR_149072 | **SLC5A4-AS1** | SLC5A4 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806276 | NR_149071 | **LINC02474** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806279 | NM_001368163 | **SMIM28** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110806280 | XM_011528476 | **CCDC194** | coiled-coil domain contai | protein_coding | 0 | 1 | 1 | 2 | 1.291 |
| 110806283 | NR_149070 | **LIF-AS1** | LIF antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806285 | NR_149060 | **LINC02561** | long intergenic non-prote | lncRNA | 1 | 1 | 2 | 2 | 0.914 |
| 110806286 | NR_149059 | **LINC02567** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806290 | NM_001368164 | **MYOCOS** | myocilin opposite strand | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110806294 | NR_149056 | **LINC02258** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806296 | NM_001364667,NM | **C1orf232** | chromosome 1 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110806298 | NM_001358661 | **C17orf113** | chromosome 17 open rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110806299 | NM_001358449 | **ETDC** | embryonic testis differen | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 110806300 | NR_149055 | **FLNC-AS1** | FLNC antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806301 | NR_149054 | **LINC02560** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.630 |
| 110806303 | NR_149050 | **SLC25A34-AS1** | SLC25A34 and TMEM82 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 110806308 | NR_148713 | **GPC3-AS1** | GPC3 antisense RNA 1 | antisense_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 110841581 | NR_149049 | **CAMTA1-DT** | CAMTA1 divergent transc | lncRNA | 0 | 0 | 1 | 1 | 0.950 |
| 110841583 | NR_149048 | **LAMC1-AS1** | LAMC1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111064646 | NR_147233 | **TPM1-AS** | TPM1 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111064647 | NM_001368165,NM | **CSNKA2IP** | casein kinase 2 subunit a | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 111064649 | NM_001365197 | **SMIM33** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 111082987 | NR_149084 | **CFTR-AS1** | CFTR antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111082988 | NR_149085 | **LINC02155** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111082989 | NR_149086 | **CXXC5-AS1** | CXXC5 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111082992 | NR_149087 | **LINC02156** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111082993 | NR_149088 | **LINC02569** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 0.837 |
| 111082994 | NR_149089 | **LINC02488** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111089941 | NM_001355008 | **MMP24-AS1-EDEM2** | MMP24-AS1-EDEM2 rea | protein_coding | 0 | 0 | 1 | 1 | 0.981 |
| 111188157 | NM_023946 | **LYNX1-SLURP2** | LYNX1-SLURP2 readthro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 111216275 | NR_151721 | **KIF26B-AS1** | KIF26B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111216282 | NR_151722 | **LINC02574** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.215 |
| 111216284 | NR_151723 | **BNC2-AS1** | BNC2 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111216285 | NR_151724 | **LINC02573** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111216286 | NR_155204 | **LINC02575** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111216287 | NR_151725 | **LINC02578** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 111240474 | NM_001356505,NM | **CRYZL2P-SEC16B** | CRYZL2P-SEC16B readt | protein_coding | 1 | 4 | 2 | 5 | 2.918 |
| 111501764 | gene-LOC11150176 | **LOC111501764** | peroxiredoxin 5 pseudog | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 111822955 | NR_153405 | **ATRIP-TREX1** | ATRIP-TREX1 readthrou | lncRNA | 1 | 2 | 2 | 3 | 2.068 |
| 112267855 | XM_024446280,XM_ | **LOC112267855** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267856 | XR_001743958 | **LOC112267856** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267857 | XM_011536282,XM_ | **LOC112267857** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267858 | XR_001745273 | **LOC112267858** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.918 |
| 112267859 | XM_024447729,XM_ | **LOC112267859** | putative aquaporin-7-like | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267861 | XR_002956938,XR_ | **LOC112267861** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.091 |
| 112267862 | XR_428749,XR_945 | **LINC02675** | long intergenic non-prote | lncRNA | 0 | 1 | 1 | 2 | 1.229 |
| 112267863 | XR_947803 | **LOC112267863** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267864 | XR_002957402 | **LOC112267864** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267865 | XR_001749290,XR_ | **LOC112267865** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267866 | XR_002957444,XR_ | **LOC112267866** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.883 |
| 112267867 | XR_001750629 | **LOC112267867** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267868 | XR_002957612,XR_ | **LOC112267868** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267869 | XR_002957740 | **LOC112267869** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267870 | XR_002958197 | **LOC112267870** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267871 | NR_160657,NR_16( | **LOC112267871** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267872 | XR_001754053,XR_ | **LOC112267872** | uncharacterized LOC112 | lncRNA | 5 | 4 | 6 | 5 | 0.864 |
| 112267873 | XR_002958486,XR_ | **LINC02814** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267875 | XR_002958813 | **LOC112267875** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267877 | XR_001739359,XR_ | **LOC112267877** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.936 |
| 112267879 | XR_002959676 | **LOC112267879** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.002 |
| 112267886 | XM_011531226 | **LOC112267886** | extracellular matrix prote | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267887 | XR_001740879,XR_ | **LOC112267887** | uncharacterized LOC112 | lncRNA | 0 | 1 | 1 | 2 | 1.270 |
| 112267888 | XR_939764 | **LOC112267888** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267889 | XR_001739732,XR_ | **KIF5C-AS1** | KIF5C antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267890 | XR_001755446,XR_ | **LOC112267890** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267891 | XR_001755588 | **LOC112267891** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267892 | XR_001751016 | **LOC112267892** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267893 | gene-LOC11226789 | **LOC112267893** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 112267894 | XR_001743959 | **LOC112267894** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267895 | XR_001752169,XR_ | **LOC112267895** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267896 | XR_001752989 | **LOC112267896** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267897 | XM_024449451 | **LOC112267897** | keratin-associated protei | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267899 | XR_001750732 | **LOC112267899** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267900 | XR_001737646,XR_ | **LOC112267900** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.900 |
| 112267901 | XR_939016 | **LOC112267901** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.103 |
| 112267902 | XR_926691 | **LOC112267902** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267903 | XR_001746818,XR_ | **LOC112267903** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267904 | XM_024448787 | **LOC112267904** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267905 | XR_001751524,XR_ | **LOC112267905** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267906 | gene-LOC1122679( | **LOC112267906** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267907 | XR_002957858,XR_ | **LOC112267907** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.990 |
| 112267908 | gene-LOC1122679( | **LOC112267908** | . | pseudogene | 0 | 0 | 1 | 1 | 0.856 |
| 112267909 | XR_947995 | **LOC112267909** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267910 | XM_017030015 | **LOC112267910** | NACHT, LRR and PYD d | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267911 | gene-LOC1122679( | **LOC112267911** | . | pseudogene | 1 | 1 | 2 | 2 | 1.064 |
| 112267913 | gene-LOC1122679( | **LOC112267913** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267914 | XR_001747635 | **LOC112267914** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267915 | XR_002958649 | **LOC112267915** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267917 | XR_002959833,XR_ | **LOC112267917** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267918 | gene-LOC1122679( | **LOC112267918** | . | pseudogene | 1 | 2 | 2 | 3 | 1.411 |
| 112267929 | XR_002956205 | **LOC112267929** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267930 | XM_024446277 | **LOC112267930** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267931 | XR_002956212 | **LOC112267931** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267932 | XR_002956215 | **LOC112267932** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.966 |
| 112267933 | XR_002956221 | **LOC112267933** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267934 | NR_164126 | **LOC112267934** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267935 | XR_002956230 | **LOC112267935** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267936 | XR_002956231 | **LOC112267936** | uncharacterized LOC112 | lncRNA | 2 | 2 | 3 | 3 | 1.179 |
| 112267937 | XR_002956237,XR_ | **LOC112267937** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.242 |
| 112267938 | XR_002956241 | **LOC112267938** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 112267939 | XM_024446284 | **LOC112267939** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.039 |
| 112267940 | XM_024446285 | **LOC112267940** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.028 |
| 112267941 | XR_002956242 | **LOC112267941** | uncharacterized LOC112 | lncRNA | 2 | 1 | 3 | 2 | 0.895 |
| 112267942 | XR_002956243,XR_ | **LOC112267942** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.772 |
| 112267943 | XR_002956245 | **LOC112267943** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.864 |
| 112267944 | XR_002956248 | **LOC112267944** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267945 | gene-LOC1122679( | **LOC112267945** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267946 | gene-LOC1122679( | **LOC112267946** | . | pseudogene | 0 | 0 | 1 | 1 | 0.981 |
| 112267947 | XM_024446286 | **LOC112267947** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267948 | gene-LOC1122679( | **LOC112267948** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267949 | gene-LOC1122679( | **LOC112267949** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267951 | XM_024446288 | **LOC112267951** | collagen alpha-1(III) chai | protein_coding | 0 | 0 | 1 | 1 | 0.921 |
| 112267952 | XR_002956322 | **LOC112267952** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267953 | XR_002956323 | **LOC112267953** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267954 | gene-LOC1122679( | **LOC112267954** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267955 | XR_002956343,XR_ | **LOC112267955** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 112267956 | XR_002956345 | **LOC112267956** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267957 | XR_002956346 | **LOC112267957** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267958 | XR_002956347 | **LOC112267958** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267959 | XM_024446606 | **LOC112267959** | uncharacterized protein ( | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267960 | XR_002956355,XR_ | **LOC112267960** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.146 |
| 112267961 | XR_002956358 | **LOC112267961** | uncharacterized LOC112 | misc_RNA | 0 | 0 | 1 | 1 | 0.905 |
| 112267962 | XR_002956360 | **LOC112267962** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267963 | gene-LOC1122679( | **LOC112267963** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267964 | XM_024446607 | **LOC112267964** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267965 | XR_002956368 | **LOC112267965** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.996 |
| 112267966 | XR_002956369 | **LOC112267966** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267967 | XR_002956372 | **LOC112267967** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 112267968 | XM_024446608 | **LOC112267968** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 0.961 |
| 112267969 | XR_002956374 | **LOC112267969** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267970 | XR_002956379 | **LOC112267970** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267971 | XM_024446609 | **LOC112267971** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267972 | XR_002956392 | **LOC112267972** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267973 | XR_002956393,XR_ | **LOC112267973** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267974 | XR_002956397,XR_ | **LOC112267974** | uncharacterized LOC112 | lncRNA | 2 | 1 | 3 | 2 | 0.858 |
| 112267975 | gene-LOC1122679( | **LOC112267975** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267976 | gene-LOC1122679( | **LOC112267976** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267977 | gene-LOC1122679( | **LOC112267977** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267978 | XR_002956402 | **LOC112267978** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267979 | gene-LOC1122679( | **LOC112267979** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267980 | gene-LOC1122679( | **LOC112267980** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267981 | gene-LOC1122679( | **LOC112267981** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267982 | gene-LOC1122679( | **LOC112267982** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267983 | NR_158201 | **LOC112267983** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.934 |
| 112267984 | XR_002956505 | **LOC112267984** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267985 | XR_002956513 | **LOC112267985** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267986 | XR_002956514 | **LOC112267986** | uncharacterized LOC112 | lncRNA | 2 | 2 | 3 | 3 | 0.991 |
| 112267987 | XR_002956520 | **LOC112267987** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267988 | XR_002956521,XR_ | **LOC112267988** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267989 | XR_002956527 | **LOC112267989** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267990 | gene-LOC1122679( | **LOC112267990** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267991 | NR_165236 | **LOC112267991** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267992 | XM_024447030,XR_ | **LOC112267992** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112267993 | XR_002956543 | **LOC112267993** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112267994 | gene-LOC1122679( | **LOC112267994** | . | pseudogene | 0 | 0 | 1 | 1 | 0.999 |
| 112267995 | gene-LOC1122679( | **LOC112267995** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267998 | gene-LOC1122679( | **LOC112267998** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112267999 | gene-LOC1122679( | **LOC112267999** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268006 | XR_002956568 | **LOC112268006** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268007 | XR_002956572,XR_ | **GRM3-AS1** | GRM3 antisense RNA 1, | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268008 | XR_002956574,XR_ | **LOC112268008** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268009 | XR_002956577,XR_ | **LOC112268009** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268010 | XR_002956580 | **LOC112268010** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268011 | gene-LOC1122680( | **LOC112268011** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268012 | XR_002956590 | **LOC112268012** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268014 | XR_002956659 | **LOC112268014** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268015 | XR_002956661,XR_ | **LOC112268015** | uncharacterized LOC112 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268016 | XR_002956668 | **LOC112268016** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268017 | XR_002956672 | **LOC112268017** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268018 | gene-LOC1122680( | **LOC112268018** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268019 | gene-LOC1122680( | **LOC112268019** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268020 | XR_002956674 | **LOC112268020** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268021 | XR_002956687,XR_ | **LOC112268021** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268022 | XR_002956694 | **LOC112268022** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268023 | XR_002956698 | **LOC112268023** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268024 | XR_002956699 | **LOC112268024** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.952 |
| 112268025 | XR_002956700 | **LOC112268025** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268026 | XR_002956702 | **LOC112268026** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268027 | XR_002956708 | **LOC112268027** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268028 | gene-LOC1122680( | **LOC112268028** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268029 | XR_002956713 | **LOC112268029** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268030 | XR_002956724 | **LOC112268030** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.932 |
| 112268031 | gene-LOC1122680( | **LOC112268031** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268032 | gene-LOC1122680( | **LOC112268032** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268033 | XR_002956835 | **LOC112268033** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268034 | XR_002956836 | **LOC112268034** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268035 | XR_002956842 | **LOC112268035** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.009 |
| 112268036 | XR_002956847 | **LOC112268036** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268037 | XR_002956860 | **LOC112268037** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268038 | XR_002956866,XR_ | **LOC112268038** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.831 |
| 112268039 | XR_002956870 | **LOC112268039** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268042 | XR_002956871 | **LOC112268042** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268043 | XR_002956873 | **LOC112268043** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268044 | XR_002956876 | **LOC112268044** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 112268045 | XR_002956882,XR_ | **LOC112268045** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268046 | XR_002956916 | **LOC112268046** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268047 | XR_002956917,XR_ | **LOC112268047** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268048 | XR_002956919 | **LOC112268048** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268049 | XR_002956923 | **LOC112268049** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268050 | XR_002956925,XR_ | **LOC112268050** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.930 |
| 112268051 | XR_002956928,XR_ | **LOC112268051** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268052 | XM_024447735 | **LOC112268052** | translation initiation facto | protein_coding | 1 | 1 | 2 | 2 | 1.060 |
| 112268053 | XR_002956931 | **LOC112268053** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268054 | XR_002956932 | **LOC112268054** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268055 | XR_002956935 | **LOC112268055** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268056 | XR_002956936 | **LOC112268056** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268057 | XR_002957050 | **LOC112268057** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268058 | XR_002957051 | **LOC112268058** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268059 | XR_002957061,XR_ | **LOC112268059** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268060 | XR_002957065 | **LOC112268060** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268061 | XR_002957082,XR_ | **LOC112268061** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268062 | XR_002957086 | **LOC112268062** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268063 | XR_002957089,XR_ | **LOC112268063** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.115 |
| 112268064 | XR_002957094 | **LOC112268064** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.913 |
| 112268065 | XR_002957098 | **LOC112268065** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268066 | XR_002957099 | **LOC112268066** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268067 | XR_002957107 | **LOC112268067** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 112268068 | NR_158219 | **LOC112268068** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268069 | XR_002957213,XR_ | **LOC112268069** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268070 | XR_002957218,XR_ | **LOC112268070** | uncharacterized LOC112 | lncRNA | 4 | 3 | 5 | 4 | 0.840 |
| 112268071 | XR_002957230,XR_ | **LOC112268071** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268072 | XR_002957237 | **LOC112268072** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.860 |
| 112268073 | XR_002957242 | **LOC112268073** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268075 | gene-LOC11226807 | **LOC112268075** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268076 | XM_024448784,XR_ | **LOC112268076** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.021 |
| 112268077 | XR_002957257 | **LOC112268077** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268078 | XR_002957258 | **LOC112268078** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268079 | XR_002957259 | **LOC112268079** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268080 | XM_024448785 | **LOC112268080** | 6.8 kDa mitochondrial pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268081 | XR_002957264 | **LOC112268081** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268082 | XR_002957266 | **LOC112268082** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268083 | gene-LOC11226808 | **LOC112268083** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268084 | XR_002957272 | **LOC112268084** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268085 | XR_002957273 | **LOC112268085** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268086 | XR_002957277 | **LOC112268086** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268087 | XR_002957390,XR_ | **LOC112268087** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268088 | XR_002957396 | **LOC112268088** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268089 | XR_002957397 | **LOC112268089** | uncharacterized LOC112 | lncRNA | 0 | 1 | 1 | 2 | 1.206 |
| 112268090 | XR_002957398 | **LOC112268090** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268091 | XR_002957401 | **LOC112268091** | uncharacterized LOC112 | misc_RNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268092 | XM_024449287,XM_ | **LOC112268092** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268093 | XR_002957409 | **LOC112268093** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.808 |
| 112268094 | gene-LOC11226809 | **LOC112268094** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268095 | XR_002957410 | **LOC112268095** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268096 | XR_002957412,XR_ | **LOC112268096** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268097 | XR_002957414 | **MYG1-AS1** | MYG1 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.053 |
| 112268098 | XR_002957416 | **LOC112268098** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.848 |
| 112268099 | XR_002957422 | **LOC112268099** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268100 | XR_002957425 | **LOC112268100** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.052 |
| 112268101 | XR_002957434 | **LOC112268101** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268102 | XM_024449292,XR_ | **LOC112268102** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268103 | XR_002957441 | **LOC112268103** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268104 | XR_002957443 | **LOC112268104** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.033 |
| 112268105 | NR_157805,NR_157 | **SBNO1-AS1** | SBNO1 antisense RNA 1 | lncRNA | 3 | 1 | 4 | 2 | 0.458 |
| 112268106 | XR_002957486,XR_ | **LOC112268106** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268107 | XR_002957488 | **LOC112268107** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268108 | XR_002957489 | **LOC112268108** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268109 | XR_002957492 | **LOC112268109** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268110 | XR_002957493 | **LOC112268110** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268111 | XR_002957494 | **LOC112268111** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268112 | XR_002957496 | **LOC112268112** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268113 | gene-LOC11226811 | **LOC112268113** | . | pseudogene | 0 | 0 | 1 | 1 | 0.970 |
| 112268114 | NR_158368 | **LOC112268114** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268115 | XR_002957501 | **LOC112268115** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268116 | XR_002957506 | **LOC112268116** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268117 | NR_158370 | **LOC112268117** | keratin associated protei | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 112268118 | XR_002957522 | **LOC112268118** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268120 | XR_002957525 | **LOC112268120** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268121 | XR_002957526 | **LOC112268121** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268122 | XR_002957581,XR_ | **LOC112268122** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.129 |
| 112268123 | XR_002957583 | **LOC112268123** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268124 | NR_160776 | **LOC112268124** | uncharacterized LOC112 | lncRNA | 3 | 3 | 4 | 4 | 0.939 |
| 112268125 | XR_002957586 | **LOC112268125** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268126 | gene-LOC11226812 | **LOC112268126** | . | pseudogene | 0 | 0 | 1 | 1 | 1.070 |
| 112268127 | XR_002957587 | **LOC112268127** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268128 | XR_002957589 | **LOC112268128** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268129 | XR_002957594 | **LOC112268129** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268130 | XR_002957595 | **LOC112268130** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268131 | XM_024449799,XM_ | **LOC112268131** | uncharacterized LOC112 | protein_coding | 1 | 2 | 2 | 3 | 1.074 |
| 112268132 | gene-LOC11226813 | **LOC112268132** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268133 | XR_002957606 | **LOC112268133** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268134 | XR_002957607 | **LOC112268134** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.934 |
| 112268135 | XR_002957614 | **LOC112268135** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268136 | XM_024449804 | **LOC112268136** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268137 | XM_024449805 | **LOC112268137** | translation machinery-as | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268138 | XR_002957615 | **LOC112268138** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268139 | XR_002957617 | **LOC112268139** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268140 | NR_158218 | **LOC112268140** | loricrin-like | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268141 | gene-LOC11226814 | **LOC112268141** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268142 | XR_002957695,XR_ | **LOC112268142** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268143 | XR_002957697 | **LOC112268143** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268144 | XR_002957706 | **LOC112268144** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268145 | XM_024450114 | **LOC112268145** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.086 |
| 112268146 | XR_002957708 | **LOC112268146** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268147 | XR_002957709 | **LOC112268147** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268148 | XR_002957712,XR_ | **LOC112268148** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.951 |
| 112268149 | XR_002957718 | **LOC112268149** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268150 | XR_002957719 | **LOC112268150** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268151 | XR_002957720 | **LOC112268151** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268152 | XR_002957721,XR_ | **LOC112268152** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268153 | XR_002957724,XR_ | **LOC112268153** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.227 |
| 112268154 | XR_002957733 | **LOC112268154** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.008 |
| 112268155 | XR_002957735 | **LOC112268155** | vesicle-associated memb | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 112268156 | XR_002957737 | **LOC112268156** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268159 | XR_002957746 | **LOC112268159** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268160 | gene-LOC11226816 | **LOC112268160** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268161 | gene-LOC11226816 | **LOC112268161** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268162 | gene-LOC11226816 | **LOC112268162** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268163 | XR_002957771 | **LOC112268163** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268164 | gene-LOC11226816 | **LOC112268164** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268165 | XR_002957855 | **LOC112268165** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268166 | XR_002957856 | **LOC112268166** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268167 | gene-LOC11226816 | **LOC112268167** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268168 | XM_024450501 | **LOC112268168** | putative uncharacterized | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268169 | XR_002957879 | **LOC112268169** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268170 | XR_002957880 | **LOC112268170** | uncharacterized LOC112 | transcribed_pseu | 0 | 0 | 1 | 1 | 0.776 |
| 112268171 | XR_002957883 | **LOC112268171** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.963 |
| 112268172 | XR_002957898,XR_ | **LOC112268172** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.965 |
| 112268173 | NR_157261,NR_157 | **LOC112268173** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268174 | XR_002957909 | **LOC112268174** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

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|---|---|---|---|---|---|---|---|---|---|
| 112268175 | XR_002957910,XR_ | **LOC112268175** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268176 | XR_002957913 | **LOC112268176** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268177 | XR_002957914 | **LOC112268177** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.975 |
| 112268178 | gene-LOC11226817 | **LOC112268178** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268179 | XR_002957933 | **LOC112268179** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.924 |
| 112268180 | gene-LOC11226818 | **LOC112268180** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268181 | gene-LOC11226818 | **LOC112268181** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268182 | XR_002957934 | **LOC112268182** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268183 | gene-LOC11226818 | **LOC112268183** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268184 | XM_024451054 | **LOC112268184** | uncharacterized LOC112 | protein_coding | 1 | 1 | 2 | 2 | 0.775 |
| 112268185 | gene-LOC11226818 | **LOC112268185** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268186 | XM_024451055 | **LOC112268186** | basic proline-rich protein | protein_coding | 0 | 0 | 1 | 1 | 1.050 |
| 112268187 | XR_002958099 | **LOC112268187** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.899 |
| 112268188 | XR_002958100 | **LOC112268188** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268189 | XR_002958107 | **LOC112268189** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268190 | XR_002958108 | **LOC112268190** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.086 |
| 112268191 | XR_002958114 | **LOC112268191** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268192 | gene-LOC11226819 | **LOC112268192** | . | pseudogene | 1 | 1 | 2 | 2 | 0.953 |
| 112268193 | gene-LOC11226819 | **LOC112268193** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268194 | XR_002958121 | **LOC112268194** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268195 | XR_002958122,XR_ | **LOC112268195** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268196 | XR_002958134 | **LOC112268196** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268197 | gene-LOC11226819 | **LOC112268197** | . | pseudogene | 9 | 8 | 10 | 9 | 0.904 |
| 112268199 | XR_002958141 | **LOC112268199** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268200 | XR_002958142 | **LOC112268200** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268201 | XR_002958143 | **LOC112268201** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.887 |
| 112268202 | XR_002958144 | **LOC112268202** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.715 |
| 112268203 | XR_002958145 | **LOC112268203** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.134 |
| 112268204 | XR_002958148 | **LOC112268204** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268205 | XR_002958149,XR_ | **LOC112268205** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268206 | XR_002958160 | **LOC112268206** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268207 | gene-LOC11226820 | **LOC112268207** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268208 | XR_002958196 | **LOC112268208** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268209 | XR_002958202 | **LOC112268209** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268210 | XR_002958207 | **LOC112268210** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268211 | XM_024451294 | **LOC112268211** | O-acyltransferase like pr | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268212 | XR_002958210 | **LOC112268212** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268213 | XR_002958214 | **LOC112268213** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.010 |
| 112268214 | XR_002958215 | **LOC112268214** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268215 | XR_002958218,XR_ | **LOC112268215** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268216 | XR_002958226 | **LINC02856** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268217 | gene-LOC11226821 | **LOC112268217** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268218 | XR_002958243 | **LOC112268218** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268219 | NR_168005 | **LOC112268219** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268220 | XR_002958245 | **LOC112268220** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268221 | XR_002958253 | **LOC112268221** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268223 | XR_002958282 | **CDC42-AS1** | CDC42 antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.156 |
| 112268224 | XR_002958291 | **LOC112268224** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268225 | XR_002958304 | **LOC112268225** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.064 |
| 112268226 | gene-LOC11226822 | **LOC112268226** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268227 | XR_002958317 | **LOC112268227** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.969 |
| 112268228 | gene-LOC11226822 | **LOC112268228** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268230 | XR_002958326,XR_ | **LOC112268230** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268231 | XR_002958331 | **LOC112268231** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268234 | XR_002958345 | **LOC112268234** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268235 | XR_002958352 | **LOC112268235** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268236 | XR_002958358 | **LOC112268236** | uncharacterized LOC112 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 112268239 | XR_002958362 | **LOC112268239** | uncharacterized LOC112 | lncRNA | 1 | 2 | 2 | 3 | 1.197 |
| 112268240 | XR_002958366 | **LOC112268240** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268241 | XR_002958387 | **LOC112268241** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268242 | gene-LOC11226824 | **LOC112268242** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268243 | XR_002958412 | **LOC112268243** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268244 | XR_002958414 | **LOC112268244** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.031 |
| 112268245 | XR_002958415 | **LOC112268245** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268246 | XR_002958417 | **LOC112268246** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.182 |
| 112268247 | XR_002958424 | **LOC112268247** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268248 | XR_002958425,XR_ | **LOC112268248** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268249 | XR_002958431 | **LOC112268249** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268250 | XR_002958434 | **LOC112268250** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268251 | XR_002958435 | **LOC112268251** | uncharacterized LOC112 | lncRNA | 2 | 3 | 3 | 4 | 1.118 |
| 112268252 | XR_002958447 | **LOC112268252** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268253 | XR_002958448 | **LOC112268253** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268254 | XR_002958451 | **LOC112268254** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.064 |
| 112268255 | gene-LOC11226825 | **LOC112268255** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268256 | XR_002958489 | **LOC112268256** | uncharacterized LOC112 | lncRNA | 1 | 2 | 2 | 3 | 1.122 |
| 112268257 | XR_002958494 | **LOC112268257** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268258 | XR_002958495 | **LOC112268258** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268259 | XR_002958497 | **LOC112268259** | uncharacterized LOC112 | lncRNA | 9 | 8 | 10 | 9 | 0.951 |
| 112268260 | XM_024451962,XM_ | **LOC112268260** | uncharacterized LOC112 | protein_coding | 1 | 2 | 2 | 3 | 1.199 |
| 112268261 | XR_002958527,XR_ | **LOC112268261** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268262 | XR_002958535 | **LOC112268262** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.117 |
| 112268263 | XR_002958555 | **LOC112268263** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268264 | gene-LOC11226826 | **LOC112268264** | . | pseudogene | 0 | 0 | 1 | 1 | 1.003 |
| 112268265 | gene-LOC11226826 | **LOC112268265** | . | pseudogene | 0 | 0 | 1 | 1 | 1.092 |
| 112268266 | XR_002958568 | **LOC112268266** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268267 | XR_002958570 | **LOC112268267** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.032 |
| 112268268 | XR_002958574,XR_ | **LOC112268268** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268269 | NR_165198,NR_165 | **LOC112268269** | uncharacterized LOC112 | lncRNA | 14 | 15 | 15 | 16 | 1.073 |
| 112268270 | XM_024452026 | **LOC112268270** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268271 | XM_024452027 | **LOC112268271** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112268272 | XR_002958600,XR_ | **LOC112268272** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.935 |
| 112268273 | XR_002958621 | **LOC112268273** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268274 | XR_002958622,XR_ | **LOC112268274** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268275 | XR_002958629 | **LINC02799** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268276 | XR_002958633 | **LOC112268276** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268278 | XR_002958639 | **LOC112268278** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268279 | XR_002958642 | **LOC112268279** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268280 | XR_002958643 | **LOC112268280** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268281 | XR_002958644,XR_ | **LOC112268281** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268282 | XR_002958646 | **LOC112268282** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268283 | XR_002958647 | **LOC112268283** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268285 | gene-LOC11226828 | **LOC112268285** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268286 | XR_002958661 | **LOC112268286** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268287 | XR_002958663 | **LOC112268287** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268288 | XR_002958732,XR_ | **LOC112268288** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268289 | XR_002958736 | **LOC112268289** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268290 | gene-LOC11226829 | **LOC112268290** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268291 | XR_002958737 | **LOC112268291** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268292 | XR_002958738,XR_ | **LOC112268292** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268293 | gene-LOC11226829 | **LOC112268293** | . | pseudogene | 0 | 0 | 1 | 1 | 0.992 |
| 112268294 | XR_002958749 | **LOC112268294** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.667 |
| 112268295 | XR_002958751 | **LOC112268295** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268296 | XR_002958752 | **LOC112268296** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268297 | XR_002958753 | **LOC112268297** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268299 | XR_002958754 | **LOC112268299** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268300 | gene-LOC11226830 | **LOC112268300** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268301 | XR_002958812 | **LOC112268301** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268302 | XR_002958814 | **LOC112268302** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268303 | gene-LOC11226830 | **LOC112268303** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268304 | XR_002958818,XR_ | **LOC112268304** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268307 | XR_002958823 | **LOC112268307** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268308 | gene-LOC11226830 | **LOC112268308** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268309 | gene-LOC11226830 | **LOC112268309** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268310 | XR_002958826 | **LOC112268310** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268311 | XR_002958838,XR_ | **LOC112268311** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.118 |
| 112268312 | XR_002958842,XR_ | **LOC112268312** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 112268323 | XR_002959828 | **LOC112268323** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268410 | gene-LOC11226841 | **LOC112268410** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268411 | XR_002959368 | **LOC112268411** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268412 | XR_002959369 | **LOC112268412** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268413 | XR_002959381 | **LOC112268413** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268415 | XR_002959386 | **LOC112268415** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.925 |
| 112268416 | XR_002959388 | **LOC112268416** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268417 | gene-LOC11226841 | **LOC112268417** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268418 | XR_002959404 | **LOC112268418** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268419 | XR_002959405 | **LOC112268419** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268420 | XR_002959408 | **LOC112268420** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.998 |
| 112268421 | XR_002959410 | **LOC112268421** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268422 | XR_002959415 | **LOC112268422** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.029 |
| 112268423 | XR_002959416 | **LOC112268423** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268424 | XR_002959420 | **LOC112268424** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268425 | XR_002959421 | **LOC112268425** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268426 | XR_002959422 | **LOC112268426** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.996 |
| 112268427 | gene-LOC11226842 | **LOC112268427** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268428 | gene-LOC11226842 | **LOC112268428** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268429 | XR_002959449 | **LOC112268429** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268430 | XR_002959450 | **LOC112268430** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 0.899 |
| 112268431 | XR_002959451,XR_ | **LOC112268431** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268432 | XR_002959456 | **LOC112268432** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268433 | XR_002959458 | **LOC112268433** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.630 |
| 112268434 | XR_002959459 | **LOC112268434** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.045 |
| 112268435 | gene-PPIAP61 | **PPIAP61** | peptidylprolyl isomerase | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268436 | XR_002959475 | **LOC112268436** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268437 | XM_024453279 | **LOC112268437** | uncharacterized protein l | protein_coding | 0 | 0 | 1 | 1 | 0.913 |
| 112268438 | XR_002959478 | **LOC112268438** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268439 | XR_002959479 | **LOC112268439** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268440 | XR_002959483 | **LOC112268440** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268441 | XR_002959485 | **LOC112268441** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268442 | gene-HIGD2AP2 | **HIGD2AP2** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268443 | gene-LOC11226844 | **LOC112268443** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268444 | XM_024453854 | **LOC112268444** | translation initiation facto | protein_coding | 0 | 0 | 1 | 1 | 0.996 |
| 112268445 | XR_002959613,XR_ | **LOC112268445** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268446 | XR_002959630,XR_ | **LOC112268446** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268448 | XR_002959639 | **LOC112268448** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268449 | XR_002959652 | **LOC112268449** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268450 | XR_002959658 | **LOC112268450** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.967 |
| 112268451 | gene-LOC11226845 | **LOC112268451** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268454 | gene-LOC11226845 | **LOC112268454** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268455 | XR_002959677,XR_ | **LOC112268455** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 0.957 |
| 112268457 | XR_002959681 | **LOC112268457** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268458 | XR_002959697,XR_ | **LOC112268458** | uncharacterized LOC112 | lncRNA | 1 | 1 | 2 | 2 | 1.136 |
| 112268460 | XR_002959774 | **LOC112268460** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268461 | XR_002959775 | **LOC112268461** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268462 | XR_002959778 | **LOC112268462** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268463 | XR_002959779 | **LOC112268463** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268465 | XR_002959790 | **LOC112268465** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268466 | XR_002959792,XR_ | **LOC112268466** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268467 | XR_002959797 | **LOC112268467** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.037 |
| 112268468 | XR_002959799 | **LOC112268468** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268469 | XR_002959800 | **LOC112268469** | uncharacterized LOC112 | lncRNA | 1 | 0 | 2 | 1 | 0.836 |
| 112268470 | gene-LOC11226847 | **LOC112268470** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112268471 | XR_002959808 | **LOC112268471** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268472 | XR_002959815,XR_ | **LOC112268472** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112268474 | XR_002959832 | **LOC112268474** | uncharacterized LOC112 | lncRNA | 0 | 0 | 1 | 1 | 1.033 |
| 112268475 | gene-LOC11226847 | **LOC112268475** | . | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112352682 | gene-HSPE1P17 | **HSPE1P17** | heat shock protein family | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112441426 | NM_001362796 | **TMEM271** | transmembrane protein 2 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112441434 | NM_001365341 | **SHLD3** | shieldin complex subunit | protein_coding | 13 | 13 | 14 | 14 | 1.018 |
| 112543478 | NR_156732 | **MAPK6-DT** | MAPK6 divergent transcr | lncRNA | 0 | 0 | 1 | 1 | 0.839 |
| 112543491 | NR_156734 | **LOC112543491** | linc-UFC1 | lncRNA | 0 | 0 | 1 | 1 | 0.831 |
| 112543493 | NR_156738 | **SIRLNT** | SIRT1 regulating lncRNA | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112552163 | gene-TUSC2P2 | **TUSC2P2** | TUSC2 pseudogene 2 | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 112577516 | NM_001364461 | **LOC112577516** | carbohydrate-binding pro | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112577518 | NR_157183 | **MUC5B-AS1** | MUC5B antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112577592 | NM_001364581 | **LOC112577592** | uncharacterized LOC112 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 112590798 | NR_157263 | **HPAT5** | human pluripotency-asso | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112637020 | NR_157279 | **SREBF2-AS1** | SREBF2 antisense RNA | lncRNA | 0 | 0 | 1 | 1 | 0.916 |
| 112694756 | NM_001365304,NM | **LOC112694756** | uncharaterized LOC1126 | protein_coding | 284 | 284 | 285 | 285 | 1.001 |
| 112806053 | NR_157393 | **TBILA** | TGF-beta induced lncRN | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112840933 | NR_157564 | **ZKSCAN7-AS1** | ZKSCAN7 ZNF cluster a | lncRNA | 0 | 1 | 1 | 2 | 1.516 |
| 112840934 | NR_157569 | **NGF-AS1** | NGF antisense RNA 1 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112935892 | NR_157588 | **LINC02605** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112935960 | NR_157844 | **SCAT2** | S-phase cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 112935969 | NR_157848 | **SCAT8** | S-phase cancer associat | lncRNA | 0 | 0 | 1 | 1 | 1.056 |
| 113218477 | NR_158654,NR_158 | **TIMM23B-AGAP6** | TIMM23B-AGAP6 readth | lncRNA | 11 | 8 | 12 | 9 | 0.730 |
| 113218480 | NR_162128,rna-MIR | **MIR12114** | microRNA 12114 | miRNA | 1 | 0 | 2 | 1 | 0.586 |
| 113218481 | NR_162089,rna-MIR | **MIR9718** | microRNA 9718 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218482 | NR_162090,rna-MIR | **MIR9898** | microRNA 9898 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218483 | NR_162092,rna-MIR | **MIR9900** | microRNA 9900 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218484 | NR_162094,rna-MIR | **MIR9902-1** | microRNA 9902-1 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218485 | NR_162099,rna-MIR | **MIR9986** | microRNA 9986 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218486 | NR_162101,rna-MIR | **MIR10392** | hsa-miR-10392-3p | . | 0 | 0 | 1 | 1 | 1.001 |
| 113218487 | NR_162103,rna-MIR | **MIR10394** | hsa-miR-10394-5p | . | 1 | 1 | 2 | 2 | 0.888 |
| 113218488 | NR_162111,rna-MIR | **MIR10396B** | hsa-miR-10396b-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218489 | NR_162107,rna-MIR | **MIR10398** | hsa-miR-10398-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218490 | NR_162112,rna-MIR | **MIR10522** | microRNA 10522 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218491 | NR_162115,rna-MIR | **MIR10524** | microRNA 10524 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218492 | NR_162117,rna-MIR | **MIR10526** | hsa-miR-10526-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218493 | NR_162119,rna-MIR | **MIR11181** | microRNA 11181 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218494 | NR_162126,rna-MIR | **MIR9851** | microRNA 9851 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218495 | NR_162091,rna-MIR | **MIR9899** | microRNA 9899 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218496 | NR_162093,rna-MIR | **MIR9901** | microRNA 9901 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218497 | NR_162095,rna-MIR | **MIR9903** | microRNA 9903 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218498 | NR_162096,rna-MIR | **MIR9985** | microRNA 9985 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218499 | NR_162100,rna-MIR | **MIR10226** | microRNA 10226 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218500 | NR_162102,rna-MIR | **MIR10393** | hsa-miR-10393-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218501 | NR_162105,rna-MIR | **MIR10396A** | hsa-miR-10396a-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218502 | NR_162106,rna-MIR | **MIR10397** | hsa-miR-10397-5p | . | 0 | 0 | 1 | 1 | 1.002 |
| 113218503 | NR_162108,rna-MIR | **MIR10399** | hsa-miR-10399-3p | . | 0 | 0 | 1 | 1 | 0.997 |
| 113218504 | NR_162116,rna-MIR | **MIR10525** | microRNA 10525 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218505 | NR_162118,rna-MIR | **MIR10527** | hsa-miR-10527-5p | . | 0 | 0 | 1 | 1 | 0.989 |
| 113218506 | NR_162120,rna-MIR | **MIR11399** | microRNA 11399 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218507 | NR_162127,rna-MIR | **MIR12113** | microRNA 12113 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218508 | NR_162114,rna-MIR | **MIR9983** | microRNA 9983 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218509 | NR_162122,rna-MIR | **MIR11401** | microRNA 11401 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218510 | NR_162113,rna-MIR | **MIR10523** | hsa-miR-10523-5p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113218511 | NR_162150,rna-MIR | **MIR9902-2** | microRNA 9902-2 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113218512 | NR_162109,rna-MIR | **MIR10400** | hsa-miR-10400-3p | . | 0 | 0 | 1 | 1 | 1.000 |
| 113219450 | NR_162129,rna-MIR | **MIR12115** | microRNA 12115 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219451 | NR_162130,rna-MIR | **MIR12116** | microRNA 12116 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219452 | NR_162131,rna-MIR | **MIR12117** | microRNA 12117 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219453 | NR_162133,rna-MIR | **MIR12119** | microRNA 12119 | miRNA | 0 | 0 | 1 | 1 | 0.998 |
| 113219454 | NR_162135,rna-MIR | **MIR12121** | microRNA 12121 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219455 | NR_162136,rna-MIR | **MIR12122** | microRNA 12122 | miRNA | 3 | 3 | 4 | 4 | 0.907 |
| 113219456 | NR_162137,rna-MIR | **MIR12123** | microRNA 12123 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219457 | NR_162138,rna-MIR | **MIR12124** | microRNA 12124 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219458 | NR_162139,rna-MIR | **MIR12125** | microRNA 12125 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219459 | NR_162140,rna-MIR | **MIR12126** | microRNA 12126 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219460 | NR_162143,rna-MIR | **MIR12129** | microRNA 12129 | miRNA | 0 | 0 | 1 | 1 | 0.958 |
| 113219461 | NR_162145,rna-MIR | **MIR12131** | microRNA 12131 | miRNA | 0 | 0 | 1 | 1 | 1.044 |
| 113219462 | NR_162148,rna-MIR | **MIR12135** | microRNA 12135 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219463 | NR_162142,rna-MIR | **MIR12128** | microRNA 12128 | miRNA | 0 | 0 | 1 | 1 | 1.000 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 113219464 | NR_162144,ma-MIF | **MIR12130** | microRNA 12130 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219465 | NR_162146,ma-MIF | **MIR12132** | microRNA 12132 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219466 | NR_162147,ma-MIF | **MIR12133** | microRNA 12133 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219467 | NR_162149,ma-MIF | **MIR12136** | microRNA 12136 | miRNA | 0 | 0 | 1 | 1 | 0.819 |
| 113219468 | NR_162134,ma-MIF | **MIR12120** | microRNA 12120 | miRNA | 0 | 1 | 1 | 2 | 1.793 |
| 113219469 | NR_162132,ma-MIF | **MIR12118** | microRNA 12118 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113219470 | NR_162141,ma-MIF | **MIR12127** | microRNA 12127 | miRNA | 0 | 0 | 1 | 1 | 0.999 |
| 113391335 | NR_158969 | **TMEM274P** | transmembrane protein 2 | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 113455421 | NM_001002847,NM | **DERPC** | DERPC proline and glyc | protein_coding | 36 | 37 | 37 | 38 | 1.038 |
| 113523636 | NM_001369203 | **SMIM40** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113523638 | NM_001369216 | **SMIM41** | small integral membrane | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 113523640 | NR_159947,NR_159 | **DCXR-DT** | DCXR divergent transcrip | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113523642 | NR_159946 | **LINC02617** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113633881 | NR_159949 | **HEAT2** | HEart disease Associate | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113839518 | NR_162097,ma-MIF | **MIR1843** | microRNA 1843 | miRNA | 0 | 0 | 1 | 1 | 1.001 |
| 113839519 | NR_162123,ma-MIF | **MIR3059** | microRNA 3059 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113839520 | NR_162124,ma-MIF | **MIR3085** | microRNA 3085 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113839521 | NR_162098,ma-MIF | **MIR548BC** | microRNA 548BC | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113839522 | NR_162125,ma-MIF | **MIR6529** | microRNA 6529 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113839523 | NR_162121,ma-MIF | **MIR11400** | microRNA 11400 | miRNA | 0 | 0 | 1 | 1 | 1.000 |
| 113939912 | NR_160414,NR_160 | **BMS1P2-AGAP9** | BMS1P2-AGAP9 readthr | transcribed_pseu | 0 | 0 | 1 | 1 | 0.819 |
| 113939925 | NR_160425,NR_160 | **BMS1P4-AGAP5** | BMS1P4-AGAP5 readthr | transcribed_pseu | 3 | 4 | 4 | 5 | 1.198 |
| 114004351 | NR_160518,NR_160 | **PARGP1-AGAP4** | PARGP1-AGAP4 readthr | transcribed_pseu | 2 | 3 | 3 | 4 | 1.330 |
| 114004358 | NR_160550 | **MYOPARR** | myogenin promoter asso | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114004396 | NR_160525 | **LNCRNA-ATB** | long noncoding RNA act | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114004397 | NR_160544,NR_160 | **CA5BP1-CA5B** | CA5BP1-CA5B readthrou | lncRNA | 1 | 1 | 2 | 2 | 1.052 |
| 114108587 | NM_001366559,NM | **ATF7-NPFF** | ATF7-NPFF readthrough | protein_coding | 0 | 0 | 1 | 1 | 1.060 |
| 114118903 | NM_001368319 | **ARHGAP11A-SCG5** | ARHGAP11A-SCG5 read | protein_coding | 3 | 0 | 4 | 1 | 0.293 |
| 114483833 | NM_001369125 | **H2BE1** | H2B.E variant histone 1 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114483834 | NM_005692,NR_160 | **ABCF2-H2BE1** | ABCF2-H2BE1 readthrou | protein_coding | 0 | 0 | 1 | 1 | 0.933 |
| 114818278 | NR_163262,NR_163 | **ZNF71-SMIM17** | ZNF71-SMIM17 readthro | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 114841035 | NM_001370414 | **LOC114841035** | Uncharacterized protein | protein_coding | 7 | 9 | 8 | 10 | 1.200 |
| 114841037 | NM_001370581 | **LOC114841037** | Uncharacterized protein | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 114841040 | NR_163486 | **LOC114841040** | uncharacterized LOC114 | lncRNA | 0 | 0 | 1 | 1 | 1.228 |
| 115072896 | NM_001371097 | **SLCO1B3-SLCO1B7** | SLCO1B3-SLCO1B7 rea | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 115253422 | NM_001371364,NM | **DUS4L-BCAP29** | DUS4L-BCAP29 readthro | protein_coding | 17 | 17 | 18 | 18 | 0.966 |
| 115271120 | NR_163945 | **LDLR-AS1** | LDLR-AS1 | lncRNA | 0 | 0 | 1 | 1 | 1.170 |
| 115308161 | NR_163974 | **LOC115308161** | uncharacterized LOC115 | lncRNA | 0 | 1 | 1 | 2 | 1.563 |
| 115482681 | gene-H3P2 | **H3P2** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482685 | gene-H3P13 | **H3P13** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482696 | gene-H3P23 | **H3P23** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482697 | gene-H3P24 | **H3P24** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482698 | gene-H3P27 | **H3P27** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482699 | gene-H3P28 | **H3P28** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 0.972 |
| 115482703 | gene-H3P35 | **H3P35** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482706 | gene-H3P47 | **H3P47** | H3 histone pseudogene | pseudogene | 1 | 1 | 2 | 2 | 1.013 |
| 115482707 | gene-H3P39 | **H3P39** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482712 | gene-H3P5 | **H3P5** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482713 | gene-H3P10 | **H3P10** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482716 | gene-H2ACP2 | **H2ACP2** | H2AC histone family pse | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482719 | gene-H3P22 | **H3P22** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115482723 | gene-H3P40 | **H3P40** | H3 histone pseudogene | pseudogene | 0 | 0 | 1 | 1 | 1.000 |
| 115694671 | NR_164166 | **LINC01297** | long intergenic non-prote | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 115801414 | NR_164308,NR_164 | **LINC01297-DUXAP10-I** | LINC01297-DUXAP10-NE | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 115804232 | NR_036442,NR_164 | **CEROX1** | cytoplasmic endogenous | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 115830329 | NR_164368 | **ZNNT1** | ZNF706 neighboring trar | lncRNA | 3 | 3 | 4 | 4 | 1.003 |
| 115995503 | NR_164660 | **LOC115995503** | XNDC1 pseudogene | transcribed_pseu | 0 | 0 | 1 | 1 | 1.000 |
| 116033993 | NM_001374838 | **FOXL3** | forkhead box L3 | protein_coding | 0 | 0 | 1 | 1 | 1.000 |
| 116412618 | NR_165159,NR_165 | **PDCD6-AHRR** | PDCD6-AHRR readthrou | lncRNA | 6 | 5 | 7 | 6 | 0.918 |
| 116435278 | NR_165237,NR_165 | **LOC116435278** | uncharacterized LOC116 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 116804915 | NR_166065,NR_166 | **LNCDAT** | lncRNA divergent activat | lncRNA | 0 | 0 | 1 | 1 | 1.000 |
| 116804918 | NM_001378761 | **TBCEL-TECTA** | TBCEL-TECTA readthrou | protein_coding | 0 | 0 | 1 | 1 | 1.029 |
| 117779438 | NR_168501,NR_168 | **LOC117779438** | uncharacterized LOC117 | lncRNA | 0 | 0 | 1 | 1 | 1.000 |

**Supplemental Table S9. GSEA analysis of cluster 1 cells compared with other clusters**

| Description | setSize | enrichmentScore | NES | pvalue | p.adjust | qvalue | rank | leading_edge | core_enrichment |
|---|---|---|---|---|---|---|---|---|---|
| HALLMARK_MYC_TARGETS_V1 | 44 | 0.534968701 | 2.858309 | 3.18E-07 | 3.50E-06 | 2.01E-06 | 72 | tags=66%, list=31%, signal=56% | MCM4/YWHAE/HSPD1/NME1/RAN/LDHA/NPM1/VDAC3/PA2G4/DUT/MCM2/PCNA/TUFM/NOLC1/MCM6/RANBP1/C1QBP/GNL3/MCM7/POLE3/HSP90AB1/MCM5/MYC/DDX21/HSPE1/SRSF7/SSBP1/ODC1/EIF1AX |
| HALLMARK_MYC_TARGETS_V2 | 15 | 0.575189772 | 2.227146 | 0.001242 | 0.004555 | 0.002615 | 63 | tags=73%, list=27%, signal=57% | MCM4/HSPD1/NPM1/PA2G4/NOLC1/TMEM97/GNL3/MCM5/MYC/WDR43/HSPE1 |
| HALLMARK_E2F_TARGETS | 39 | 0.407861184 | 2.127085 | 0.000926 | 0.004555 | 0.002615 | 49 | tags=44%, list=21%, signal=41% | MCM4/NME1/PAICS/RAN/HMGA1/PRKDC/PA2G4/DUT/MCM2/PCNA/NOLC1/MCM6/RANBP1/TFRC/MCM7/MCM3/MCM5 |
| HALLMARK_MTORC1_SIGNALING | 30 | 0.397116635 | 1.913449 | 0.008321 | 0.022882 | 0.013138 | 86 | tags=63%, list=37%, signal=46% | MCM4/HSPD1/LDHA/TCEA1/MCM2/TMEM97/SLC7A5/TFRC/PPA1/ATP5MC1/HSPE1/SLC1A5/ENO1/BCAT1/POLR3G/CDC25A/PRDX1/PSAT1/RRM2 |
| HALLMARK_ESTROGEN_RESPONSE_LATE | 11 | 0.452677217 | 1.549693 | 0.047038 | 0.103484 | 0.059417 | 73 | tags=64%, list=32%, signal=46% | SLC29A1/FABP5/PPIF/SLC7A5/FKBP4/GINS2/SLC16A1 |
| HALLMARK_OXIDATIVE_PHOSPHORYLATION | 10 | 0.478211584 | 1.576047 | 0.059282 | 0.108683 | 0.062402 | 34 | tags=50%, list=15%, signal=45% | CYCS/LDHA/VDAC3/LDHB/MRPL15 |
| HALLMARK_ALLOGRAFT_REJECTION | 13 | -0.411558462 | -1.52039 | 0.081678 | 0.128351 | 0.073694 | 21 | tags=38%, list=9%, signal=37% | GZMB/CCL4/CRTAM/KLRD1/CCL5 |